Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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Photo No.79: 027+02 Full Profile Up & Down, Arch steps out 100mm, bore increases towards NE, open construction joint.



Photo No.80: 027+16 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

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Photo No.81: 028+21 Cess Up, Open catch-pit.



Photo No.82: 029+09 Crown & Haunch Up & Down, Arch steps up 2m, bore increases towards NE.

Rail

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TUNNEL EXAMINATION REPORT

PHOTOGRAPHS OF STRUCTURE

Photo No.83: 030+15 Crown & Haunch Up & Down, Arch steps down 2m, bore decreases towards NE.



Photo No.84: 029+15 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

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Photo No.85: 030+17 Sidewall Up, Old cabin built behind Refuge, old bullhead rail used as lintels for entrance are heavily corroded.



Photo No.86: 031+12 Refuge Up, Brickwork, rail sleeper lintel supports brick arch, timber section to rear rotten and hanging.

Rail

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TUNNEL EXAMINATION REPORT

PHOTOGRAPHS OF STRUCTURE

Photo No.87: 032+15 Cess Up, Open catch-pit.

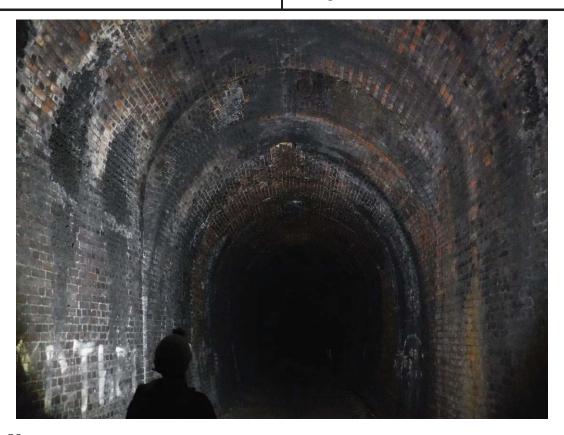


Photo No.88: 032+15 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE ELR: MER Br. No.: 00

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 $\textbf{Photo No.89:} \ \textbf{033+09 Crown \& Haunch Up \& Down, Brickwork, arch steps up 600mm, bore increases towards NE.}$

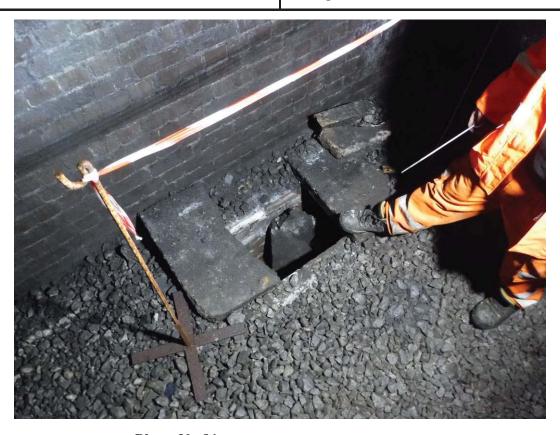


Photo No.90: 033+15 Cess Up, Open catch-pit.

Rail

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TUNNEL EXAMINATION REPORT

PHOTOGRAPHS OF STRUCTURE

Photo No.91: 034+16 Cess Up, Open catch-pit.



Photo No.92: 035+17 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

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Photo No.93: 037+18 Cess Up, Open catch-pit.



Photo No.94: 038+15 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

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Photo No.95: 042+21 Cess Up, Open catch-pit.



Photo No.96: 043+17 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

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Photo No.97: 045+15 Cess Up, Open catch-pit.



Photo No.98: 046+15 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT ELR: MER Br. No.: 00 PHOTOGRAPHS OF STRUCTURE

> Mileage: **Sheet 51 of 79** 03 M 37 ch



 $\label{eq:photo_No.99:047+15} Photo\ No.99\text{: } 047+15\ \text{Cess Up, Open catch-pit.}$



Photo No.100: 048+17 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

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Photo No.101: 049+02 Cess Down, Open catch-pit.

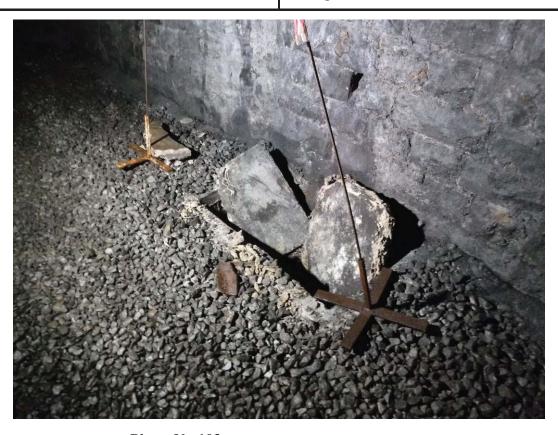


Photo No.102: 052+17 Cess Up, Open catch-pit.

Rail

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TUNNEL EXAMINATION REPORT

PHOTOGRAPHS OF STRUCTURE

 $\label{eq:photo_No.103:050+16} Photo\ No.103:\ \mbox{050+16 Cess Up, Open catch-pit.}$



Photo No.104: 054+17 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: MER Br. No.: 00

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Photo No.105: 055+16 Cess Up, Open catch-pit.

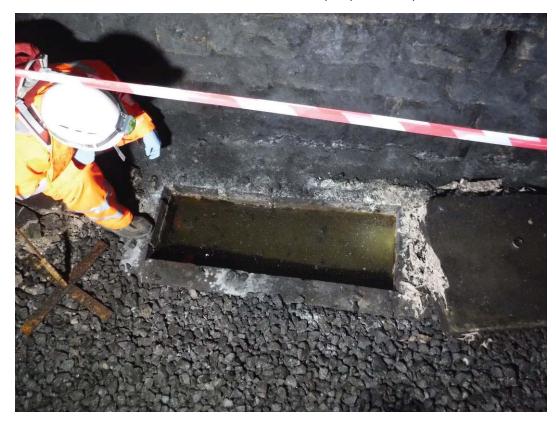


Photo No.106: 056+18 Cess Up, Open catch-pit and substantially blocked.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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Photo No.107: 058+07 Solum Up, Rubbish and litter thrown/accumulated on solum.



Photo No.108: 058+18 Cess Up, Open catch-pit and partially blocked, water flowing towards NE.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: MER Br. No.: 00

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Photo No.109: 059+17 Cess Up, Open catch-pit.



Photo No.110: 060+16 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE ELR: MER Br. No.: 00

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Photo No.111: 061+15 Cess Up, Open catch-pit.



Photo No.112: 062+16 Cess Up, Open catch-pit.

Rail

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TUNNEL EXAMINATION REPORT

PHOTOGRAPHS OF STRUCTURE

Photo No.113: 064+17 Cess Up, Open catch-pit.



Photo No.114: 065+13 Cess Up, Open catch-pit.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

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Photo No.115: 066+13 Cess Up, Open catch-pit.



Photo No.116: 067+00 Sidewall Down, Tablet marker ripped off wall, remains of plate not evident on nearby solum.

Rail

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TUNNEL EXAMINATION REPORT

PHOTOGRAPHS OF STRUCTURE

Photo No.117: 067+12 Cess Up, Open catch-pit.



Photo No.118: 068+17 Cess Up, Open catch-pit.

Rail

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TUNNEL EXAMINATION REPORT

PHOTOGRAPHS OF STRUCTURE

Photo No.119: 069+18 Cess Up, Open catch-pit. New cover fitted.



Photo No.120: 072+15 Cess Up, Open catch-pit. New cover fitted.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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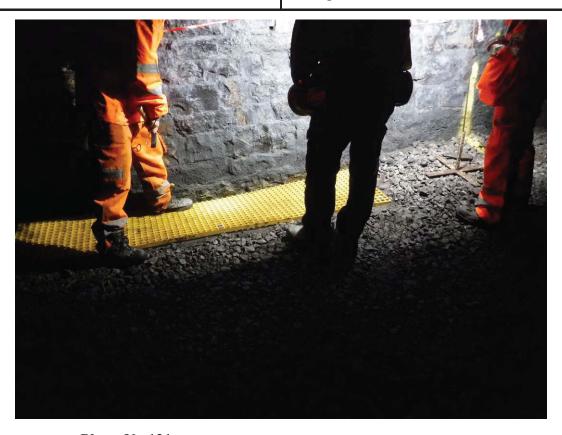


Photo No.121: 072+15 Cess Up, Open catch-pit. New cover fitted.



Photo No.122: 080+07 to 080+19 Crown Up & Down, Brickwork, spalling, depth 75mm, area 60sq.m., light.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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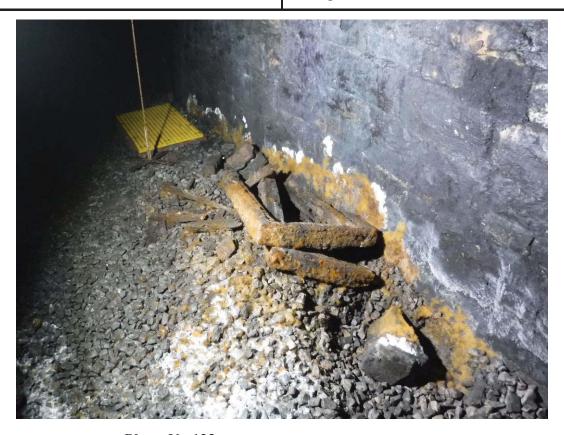


Photo No.123: 082+20 Cess Down, Open catch-pit.



Photo No.124: 084+17 to 085+11 Crown Up & Down, Brickwork, spalling and hollow, depth 100mm, area 34sq.m., sparse.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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Photo No.125: 084+19 Refuge Up, Brickwork, arch, hollow with 5No. half bricks missing and some loose bricks, perished mortar, depth 75mm, area 1sq.m.



Photo No.126: 089+06 Refuge Down, Natural rock to rear has collapsed and run through to cess.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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Photo No.127: 096+00 Sidewalls Up & Down, Brickwork, buttresses collapsing with rotten timber bearers on top and numerous loose bricks, area 10sq.m.



Photo No.128: 101+21 Sidewall Down, Brickwork, spalling, depth 100mm, area 4sq.m.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

Mileage: 03 M 37 ch Sheet 66 of 79

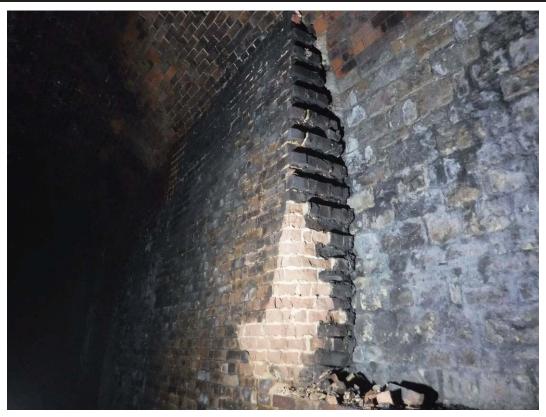


Photo No.129: 102+01 Sidewall Down, Brickwork, spalling to corner of support brickwork, depth 200mm, area 1sq.m. with a 5m long diagonal fracture, width 3mm.



Photo No.130: 102+01 Sidewall Down, Brickwork, spalling to corner of support brickwork, depth 200mm, area 1sq.m. with a 5m long diagonal fracture, width 3mm.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE ELR: MER Br. No.: 00

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Photo No.131: Northeast Portal, oiling hinges.



Photo No.132: Northeast Portal, oiling padlock.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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Photo No.133: Northeast Portal, Stonework, parapet stringcourse, tree stump growing, girth 500mm.



Photo No.134: Northeast Portal, Stonework, end of parapet, tree stump growing, girth 1.5m.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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Photo No.135: Northeast Portal, Stonework, end of parapet, tree stump growing, girth 1.5m.



Photo No.136: Northeast Portal, Stonework, end of parapet, c.3No. blocks missing.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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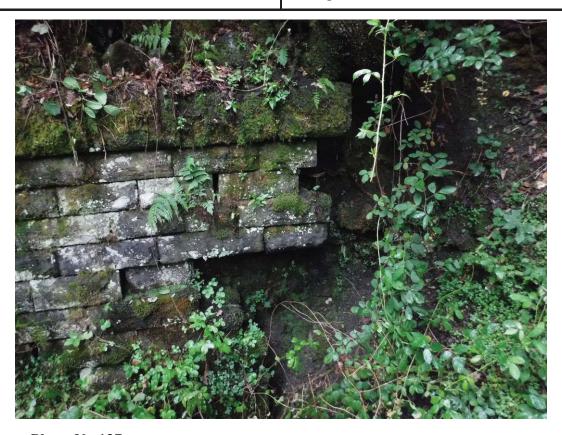


Photo No.137: Northeast Portal, Stonework, end of parapet, c.5No. blocks missing.



Photo No.138: Northeast Portal, Stonework, parapet, tree stump behind coping.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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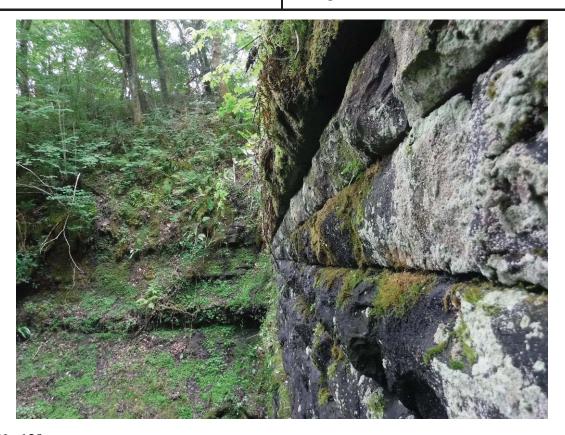


Photo No.139: Northeast Portal, Stonework, parapet coping pushing forward c.6". Tree stumps behind coping.



Photo No.140: Northeast Portal, Stonework, parapet coping pushing forward c.6". Tree stumps behind coping.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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Photo No.141: Northeast Portal, Stonework, parapet coping pushing forward c.6". Tree stumps behind coping.



Photo No.142: Northeast Portal, Stonework, loose blocks and open joints, depth 3" to 12" where blocks not tight or pointed, area 40sq.m., light.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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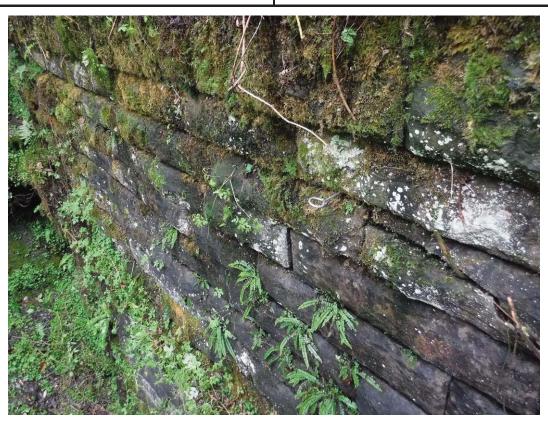


Photo No.143: Northeast Portal, Stonework, loose blocks and open joints, depth 3" to 12" where blocks not tight or pointed, area 40sq.m., light.



Photo No.144: Northeast Portal, Stonework, Vegetation. BEFORE WORKS.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: MER Br. No.: 00

Mileage: 03 M 37 ch Sheet 74 of 79



Photo No.145: Northeast Portal, Stonework, Vegetation. BEFORE WORKS.



 ${\color{red}Photo}\ No.146\text{:}\ \text{Northeast Portal, Stonework, Vegetation. BEFORE WORKS.}$

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

Mileage: 03 M 37 ch Sheet 75 of 79



Photo No.147: Northeast Portal, Stonework, Vegetation. BEFORE WORKS - Ecological examination.



Photo No.148: Northeast Portal, Stonework, Vegetation. DURING WORKS - Removing vegetation.

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

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Photo No.149: Northeast Portal, Stonework, Vegetation. DURING WORKS - Removing vegetation.

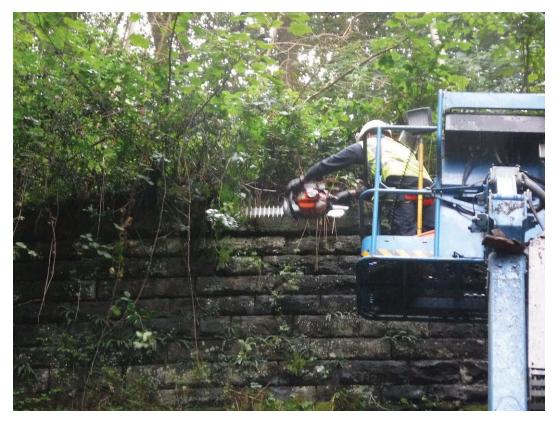


Photo No.150: Northeast Portal, Stonework, Vegetation. DURING WORKS - Removing vegetation.

Balfour Beatty

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

Mileage: 03 M 37 ch Sheet 77 of 79



Photo No.151: Northeast Portal, Stonework, Vegetation. AFTER WORKS - only moss & lichens remain on stonework.



Photo No.152: Northeast Portal, Stonework, Vegetation. AFTER WORKS - only moss & lichens remain on stonework.

Balfour Beatty

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: **MER** Br. No.: **00**

Mileage: 03 M 37 ch Sheet 78 of 79



Photo No.153: Northeast Portal, Stonework, Vegetation. AFTER WORKS - only moss & lichens remain on stonework.



Photo No.154: 114+05 Cess Down, Catch-pit blocked and water surcharging onto solum. Stream flows to NE along upside cess.

Balfour Beatty

Rail

TUNNEL EXAMINATION REPORT PHOTOGRAPHS OF STRUCTURE

ELR: MER Br. No.: 00

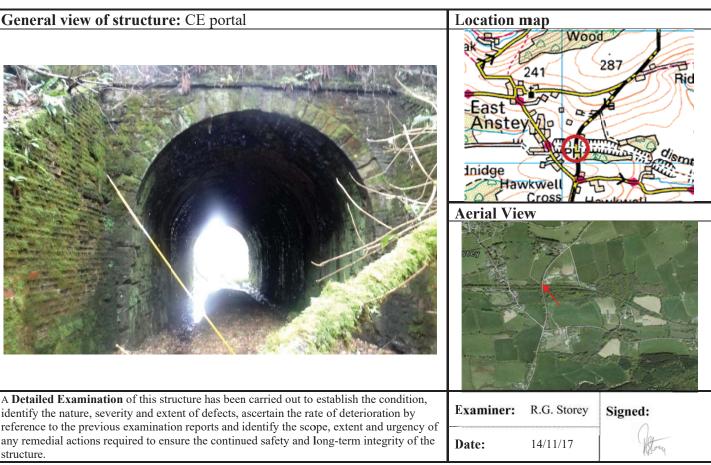
Mileage: 03 M 37 ch Sheet 79 of 79



Photo No.155: 114+05 Cess Down, Catch-pit blocked and water surcharging onto solum. Stream flows to NE along upside cess.



ELR:	BLE Structure No:	Mileage: 187m 64ch	Examination date: 14/11/17
Route:	Barnstaple Branch Line		OS ref: SS 871 261
Name:	East Anstey Tunnel		Type: Tunnel



Access Hazards:

Access via steep embankment at DC presents slippery conditions underfoot and tripping hazards. A safety line is essential. The London end is defined as the east (Taunton) end. The formation is waterlogged throughout (P23).

Recommendations:

Replace dislodged fence rail at UC (check if HE (HRE) liability) - PS £200.

Cut out and replace spalling to CE crown at 1.25ch and annually monitor adjacent local fractures - P1 £2.5k. Remove moss and rebuild upper section of UC wingwall adjacent to mitre - P2 £6k.

Signed by Examining Engineer:





ELR:	BLE	Structure No:	Mileage:	187m 64ch	Examination date:	14/11/17
Route:	Barns	staple Branch Line			OS ref: SS 871 261	
Name:	East	Anstey Tunnel			Type: Tunnel	

Type of construction	East Anstey is a semi-circular masonry arch profile supported on masonry sidewalls. The tunnel portals comprise masonry voussoirs, spandrels, headwall and associated wing walls.
No. of sections	Two of 10 metres One of 3.6 metres
Details of shafts	None present
Details of manholes and drains	None

General Comments:

Access is via steep embankment from the roadside and the use of safety lines is essential. The best access is achieved via the DC wingwall.

Walkover Survey (P25-28)

The structure carries the single unclassified carriageway 'Oldway Road' (P25&28) and associated support embankments. No evidence of subsidence was observed in the carriageway. The road is found in good condition. A single fence element is displaced beyond UC embankment (may not be HE (HRE) liability).

Pressure readi	ngs	Gases	
LE portal	1000.4mb	O_2	20.7 - 20.9%
Mid tunnel	1000.2mb	H_2S	zero
CE portal	1000.1mb	$\mathrm{CH_4}$	zero
		CO	1ppm

Examined By:	Appointees Engineer	R.G. Sto	orey	Date of exam
	Appointees Examiner	M. Berr	у	14/11/17
Symbols Used in T	Гunnel Diagram:		E	xample
BWK	Brickwork	W	Wetness	Open joints
CJ	Construction Joint	WD	Water dripping	
R	Refuge	WR	Water running	Depth
S	Spalling I	${}^{\mathbf{F}}\mathbf{L}$	Flattening of Arch	
F	Fracture	3	Bulging	J 20
J	Open Joints	STLG	Stalactites	1.5m ²
Н	Hollow/Drummy	CLCT	Calcite Growth	↑
ST	Soot Deposits I		Leaching	Area



ELR:	BLE Structure No:	Mileage: 187m 64ch	Examination date: 14/11/17
Route:	Barnstaple Branch Line		OS ref: SS 871 261
Name:	East Anstey Tunnel		Type: Tunnel

Name of Part :	G-good	Remarks (Refer to parts by name)
	F-fair	(terrer to parte of manie)
	P-poor	
Main Girders	N/A	
Cross Girders	N/A	
Crown	F	
Haunches	F	Area of spalling to UC barrel (two units loss)
Sidewalls	F	Bulge to UL sidewall shows no change
Face Rings to portal	F	
Spandrels	F	
Abutments	N/A	
Headwalls	F	
Wing & Retaining Walls	F	
Pointing	F	
Parapets & Pilasters	F	
Columns & Cylinders	N/A	
Trestles & Crossheads	N/A	
Bedstones & Cills	N/A	
Bearings	N/A	
Ballast plates/Boards	N/A	
Waterproofing	N/A	
Drainage	N/A	
Gutters & Downpipes	N/A	
Handrails	G	
Painting	N/A	
Track/Road Condition	F	
Cross Girders	N/A	
Crown	F	
Haunches	F	
Foundation	N/E	
Vegetation	P	
Bridge Number/ Mileage	G	
	,	
TICK AS APPROPRIATE		Notes/Comments:
Change of Construction		Foundations not examined: no evidence to suggest
Weight Restriction Plates		settlement was noted.
Inaccessible Parts	J	
Tell Tales		
Plumbing Points		





ELR:	BLE	Structure No:	Mileage:	187m 64ch	Examination date:	14/11/17
Route:	Barns	staple Branch Line			OS ref: SS 871 261	
Name:	East 2	Anstey Tunnel			Type: Tunnel	

East Anstey Tunnel BLE 187m 64ch	Notes
Country end East Anstey portal	
Downside wingwall (P1) Moss coverage to 60% of the wingwall with some light vegetation cover. Patches removed for examination	
Hollow sounding area 600mm ² at centre of lower third, 2m above GL.	
Widespread long-standing spalling up to 30mm deep over 5m ² in the upper half of the wingwall (mainly moss covered) (P2) .	
Headwall	
Moss coverage to 65% of the headwall.	
Vertical fracture to headwall above crown open 2mm displaced 20mm (P6). Previously noted F3 in bed joint 450mm below coping visible at Downside end, now largely obscured by vegetation (P7)	
5mm vertical fracture through masonry units in quoin of sidewall remains below U/S spandrel (P9). F3mm in first voussoir above US springing level extends into soffit of arch barrel (P10).	
Horizontal fracture one course below DS stringer, 1.2m long, open 5mm and pushing 10mm (P24)	
Lower three courses of D/S spandrel repaired in 2012. Third voussoir above D/S springing level is found spalled 50mm. Open joints to DS spandrel to 20mm (P8)	
Upside Wingwall (P3)	
Widespread spalling up to 30mm throughout affecting 70% of the wingwall. Minor increases noted to patches	
Localised areas of spalling up to 100mm adjacent to mitre; total area affected approximately 0.3m ⁻ (F4). Single unit removed (P5): remainder firm to hammer.	



ELR:	BLE	Structure No:	Mileage:	187m 64ch	Examin	ation date:	14/11/17
Route:	Barns	staple Branch Line			OS ref:	SS 871 261	
Name:	East A	Anstey Tunnel			Type:	Tunnel	

Name:		East Anstey Tunnel	Type: Tunnel
Notes Formation is found	very muddy with standing water to LE	of barrel (P23)	
East Anstey Tunnel BLE 187m 64ch	London end Dulverton portal (P16)	Moss growth covers approximately 60% of the wingwall. Wall generally found to be in good condition where clear of moss and where pockets removed. Wall generally found to be in good condition where clear of moss and where pockets removed. Headwall Moss growth and overhanging vegetation cover approximately 90% of the headwall (P20). Previously noted areas of slight spalling and open joints to area above the crown now obscured by vegetation. Previously repaired top two courses of the headwall, displaced by approximately 50mm, could not be examined. DS spandrel, repaired in 2012, remains in good condition where seen (P21) Long-standing spalling to 100mm at DL sidewall quoin 900mm above GL (P22)	Upside Wingwall (P17) Moss growth covers approximately 80% of the wingwall. Widespread and long-standing spalling throughout up to 50mm deep max. Total area affected approximately 10m² (P19) Soil erosion is taking place and has washed out from behind the wingwall.





ELR:	BLE	Structure No:	Mileage:	187m 64ch	Examination date:	14/11/17
Route:	Barns	staple Branch Line			OS ref: SS 871 261	
Name:	East A	Anstey Tunnel	_	_	Type: Tunnel	

	Sidewall	Haunch	Crown	Haunch	Sidewall	
			London end			
0	B75x1.5 high 1.0m above G.L (P15) H 2.0m x 1.5m 1.0m above g.l to s.l W Leaching S50 odd stones	W STLG	W STLG	W STLG Isolated S Isolated J	W Leaching H 0.75m ²	0
	W	W Leaching J100 x 0.5m ²	Good (P14) F2	W Leaching J60 x 0.5m ²	W	
1	Spalling to lower sidewall repaired in 2012 (P10)	F3	J60 x 0.5m ² (P13) W	Fracture disappears into CJ H in masonry above repair patch 1m ² F6mm 2.5m long 150mm from portal (P11)	W	1
	S4	450x300x125mm (P12)				•

ELR:	BLE Structure No:	Mileage: 187m 64ch	Examination date: 14/11/17
Route:	Barnstaple Branch Line		OS ref: SS 871 261
Name:	East Anstey Tunnel		Type: Tunnel



Photograph no 1: DC wingwall



Photograph no 2: UC Wingwall: widespread long-standing spalling up to 30mm deep over 5m² in the upper half of the wingwall (mainly moss covered)

ELR:	BLE	Structure No:	Mileage:	187m 64ch	Examin	ation date:	14/11/17
Route:	Barns	staple Branch Line			OS ref:	SS 871 261	
Name:	East	Anstey Tunnel			Type:	Tunnel	



Photograph no 3: UC wingwall



Photograph no 4: UC wingwall Localised areas of spalling up to 100mm adjacent to mitre Total area affected approximately 0.5m²

ELR:	BLE Structure No:	Mileage: 187m 64ch	Examination date: 14/11/17
Route:	Barnstaple Branch Line		OS ref: SS 871 261
Name:	East Anstey Tunnel		Type: Tunnel



Photograph no 5: UC wingwall Single unit removed



Photograph no 6: CE headwall Vertical fracture to headwall above crown open 2mm displaced 20mm

ELR:	BLE	Structure No:	Mileage:	187m 64ch	Examination date:	14/11/17
Route:	Barns	staple Branch Line			OS ref: SS 871 26	1
Name:	East	Anstey Tunnel			Type: Tunnel	



Photograph no 7: Previously noted F3 in bed joint 450mm below coping visible at DC headwall, now largely obscured by vegetation



Photograph no 8: CE headwall Open joints to DS spandrel to 20mm

ELR:	BLE Structure No:	Mileage: 187m 64ch	Examination date: 14/11/17
Route:	Barnstaple Branch Line		OS ref: SS 871 261
Name:	East Anstey Tunnel		Type: Tunnel



Photograph no 9: CE headwall 5mm vertical fracture through masonry units in quoin of sidewall remains below U/S spandrel



Photograph no 10: F3mm in first voussoir above US springing level extends into soffit of arch barrel