



Earthwork Type Soil Cutting - SCHI

Route

Operational Route LNE

Strategic Route G - East Coast and North East

SRS G.03 - Hertford Loop

Territory (Pre-Nov 2011) LNER Earthwork Management Area 3

Classification London and SE Commuter

Line

ELR HDB

Route Description Hertford Nth Loop

Reverse Mileage False

Start Mileage (Miles. Yards) 7.1320 End Mileage 7.1430 Side Down

 Start Easting
 531,513
 Northing
 194,503

 End Easting
 531,545
 Northing
 194,597

Length (Mile.Yards) 0.0109

Track Name NT - Not 6ft or 10ft **Track ID** 2200 Down Slow/Local/Relief

Earthwork

Reverse Mileage False
Disused Line Open

Inspection Information

Earthwork Type Soil Cutting - SCHI

Earthwork Name

Inspection SeasonWinter 2012/2013Inspection TypeCyclical ExaminationWeather ConditionsOvercast; CalmCompetence Certificate No.66020703EE RecommendationsNone

EE Inspection By , Amey (LNE and Midlands)

EE Inspection Date 19 March 2013

EE Inspection Time 16:04

Last Modified By , Amey (LNE and Midlands)

Last Modified Date 19 March 2013

Last Modified Time 16:04



CP4

Condition Category Marginal

Maximum SSHI Score 6.5 **Maximum RSHI Score** 0.0 **Reason Unfinished** N/A

EHC

Current Inspection Date 19 March 2013

Completed in Current Season False **Max EHC**

O A

Inspection Risk Category Average Risk

Inspection Status Finished Reason Unfinished N/A

Inspection Non-compliance Comment

Inspection Non-Compliance Comment

Inspection Non-Compliance Comment By

Inspection Non-Compliance Comment By

Date





CIV028 Failure Incident Information

No Incident Information

Hazard Information

No Hazards recorded





Sketch Information

No Sketch Information

Documents

No Information Available

Additional Documents

EnteredTitle	DocumentType	EnteredDate
Drainage Map GeoPDF (June 2013)	GeoPDF	05/02/2015 14:49:59





Photograph Information

ELR	Start Mileage	Up/Down Side	Photo Date	Photo Time
HDB	7.1326	Down	19 March 2013	14:01
HDB	7.1357	Down	19 March 2013	14:02
HDB	7.1429	Down	19 March 2013	14:03
HDB	7.1430	Down	19 March 2013	14:04
HDB	7.1425	Down	19 March 2013	15:40
HDB	7.1345	Down	19 March 2013	15:52
HDB	7.1392	Down	19 March 2013	16:03

ELR	Start Mileage	Up/Down Side	Photo Date	Photo Time
HDB	7.1424	D	19 March 2013	15:41
HDB	7.1344	D	19 March 2013	15:53





Embankment Information

No Embankment Information

Cutting Information

ELR	Start Mileage	End Mileage	Side	EHC	EACB	Asset Type	Entered Date
HDB	7.1350	7.1430	Down	● A	3	Soil Cutting	19 March 2013

Rock Slope Information

No Rock Slope Information

Risk To Track







Comments

Safety Management Information

System (SMIS)

Current Season Comments

Historic Comments

2013:

EE: layers of dead vegetation cause difficulty in assessing what is superficial veg cover and what is earth. monitor brick retaining wall at cutting toe which is cracked and bulges out slightly due to

burden of slope. , Amey (LNE and Midlands): 19/03/13:

CIV28

Major Desk Study

Condition:

Notes and Photo References:

Physical Defects:

Remarks:

Railtrack Report Item Number: NA

Soil Mechanics Report Reference Number:

Remedial Works Recommendations:

Embankment Construction material: NA

Special Notes:

Geology: Alluvium over 'brickearth' over LONDON CLAY / -

Monitoring

Remedial Works





EEE Web Approval

Approval Status Approved By Approved Date

Approval Standard Comment Approval Extended Comment

EEE GISmo Approval

Approval Status

Not Inspected





Reason for Evaluation

Current Evaluation

Web

Evaluated Date Evaluation Status

Override Overall

Inspection Frequency (Years)

Evaluated By

Evaluation Type

Evaluation Frequency? (Years)

NR Further Action(s)

Evaluation Comments (incl. Reason for

Exam Rejection)

Further Evaluation Required?

Site

Evaluation Status Not Inspected

Evaluation History

Next Evaluation Due	01 January 1900				
Last Cyclical Evaluation	Ву	Date	Frequency	Status	Further Reqd./Type
Web		01 January 1900	10	Not Inspected	
GISmo		01 January 1900	10		
NP Further Action(s)	No Further Action				

Evaluation Comments (incl. Reason for Exam Rejection)





EHC

Current Inspection Date

Completed in Current Season

Maximum EHC

Risk Category

Inspection Status Reason Unfinished 19 March 2013

False



Average Risk

Finished N/A



Overview Maps





Location Map









Reference HDB_7.1326_D_531522_194505_19_03_2013_14_01_03

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_531513_194503_11_12_2007_22_00_42			
ELR	HDB			
Start Mileage (Miles.Yards)	7.1326	Side	Down	
Start Easting	531,522	Northing	194,505	

Cess Level from start, increasing mileage

Photograph Information

Subject

Taken Date19 March 2013Taken Time14:01

Filename FO:LNE:jpg:1441329833

Orientation Down line

Description taken from UP. , Amey (LNE and Midlands): 19/03/13:

Inspector Information

Inspected By
Inspected Date

19 March 2013

Inspected Time 14:01





Reference HDB_7.1357_D_531537_194530_19_03_2013_14_02_18

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_531513_194503_11_12_2007_22_00_42			
ELR	HDB			
Start Mileage (Miles.Yards)	7.1357	Side	Down	
Start Easting	531,537	Northing	194,530	

Photograph Information

Culticat	autting above well
Subject	cutting above wall
Taken Date	19 March 2013
Taken Time	14:02
Filename	FO:LNE:jpg:1441231751
Orientation	Away from line
Description	-

Inspected By	, Amey (LNE and Midlands)
Inspected Date	19 March 2013
Inspected Time	14:02





Reference

HDB_7.1429_D_531560_194592_19_03_2013_14_03_45

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_531513_194503_11_12_2007_22_00_42			
ELR	HDB			
Start Mileage (Miles.Yards)	7.1429	Side	Down	
Start Easting	531,560	Northing	194,592	

Photograph Information

Subject	Cess Level from end, decreasing mileage	
Taken Date	19 March 2013	
Taken Time	14:03	
Filename	FO:LNE:jpg:1441135753	
Orientation	Away from line	
Description	=	
Separation and A. A. A. Contractor		

Inspector Information		
Inspected By	, Amey (LNE and Midlands)	
Inspected Date	19 March 2013	
Inspected Time	14:03	







Reference HDB_7.1430_D_531559_194593_19_03_2013_14_04_13

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_	531513_194503_11_12_200	7_22_00_42	
ELR	HDB			
Start Mileage (Miles.Yards)	7.1430	Side	Down	
Start Easting	531,559	Northing	194,593	

Photograph Information

Subject	Cess Level from end, decreasing mileage	
Taken Date	19 March 2013	
Taken Time	14:04	
Filename	FO:LNE:jpg:1441108087	
Orientation	Up line	
Description		

Inspected By	, Amey (LNE and Midlands)	
Inspected Date	19 March 2013	
Inspected Time	14:04	







Reference HDB_7.1425_D_531549_194592_19_03_2013_15_40_37

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_	531513_194503_11_12_200	7_22_00_42	
ELR	HDB			
Start Mileage (Miles. Yards)	7.1425	Side	Down	
Start Easting	531,549	Northing	194,592	

Photograph Information

Subject	Cess Level from end, decreasing mileage	
Taken Date	19 March 2013	
Taken Time	15:40	
Filename	FO:LNE:jpg:1441180323	
Orientation	Up line	
Description		

Inspected By	, Amey (LNE and Midlands)
Inspected Date	19 March 2013
Inspected Time	15:40





Reference

HDB_7.1345_D_531524_194523_19_03_2013_15_52_43

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_	531513_194503_11_12_200	7_22_00_42	
ELR	HDB			
Start Mileage (Miles.Yards)	7.1345	Side	Down	
Start Easting	531,524	Northing	194,523	

Photograph Information

Subject	cutting
Taken Date	19 March 2013
Taken Time	15:52
Filename	FO:LNE:jpg:1441259206
Orientation	Down line
Description	± 1

Inspector Information		
Inspected By	, Amey (LNE and Midlands)	
Inspected Date	19 March 2013	
Inspected Time	15:52	







Reference HDB_7.1392_D_531541_194562_19_03_2013_16_02_45

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_	531513_194503_11_12_200	7_22_00_42	
ELR	HDB			
Start Mileage (Miles.Yards)	7.1392	Side	Down	
Start Easting	531,541	Northing	194,562	

Photograph Information

Subject	Structure Defect	
Taken Date	19 March 2013	
Taken Time	16:03	
Filename	FO:LNE:jpg:1441202994	
Orientation	Away from line	
Description	mortar cracks within retaining wall. bulging here. Midlands): 19/03/13:	, Amey (LNE and

The state of the s		
Inspected By	, Amey (LNE and Midlands)	
Inspected Date	19 March 2013	
Inspected Time	16:02	





Reference

HDB_7.1424_D_531534_194595_19_03_2013_15_41_28

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_	531513_194503_11_12_200	7_22_00_42	
ELR	HDB			
Start Mileage (Miles.Yards)	7.1424	Side	D	
Start Easting	531,534	Northing	194,595	

Photograph Information

Subject	Boundary Level from end, decreasing mileage	
Taken Date	19 March 2013	
Taken Time	15:41	
Filename	A .	
Orientation	Up line	
Description		

Inspected By	, Amey (LNE and Midlands)
Inspected Date	19 March 2013
Inspected Time	15:41





Reference

HDB_7.1344_D_531522_194522_19_03_2013_15_53_48

Location Information

Linked 5 Chain Reference	HDB_7.1320_D_	531513_194503_11_12_200	7_22_00_42	
ELR	HDB			
Start Mileage (Miles.Yards)	7.1344	Side	D	
Start Easting	531,522	Northing	194,522	

Photograph Information

Subject	Boundary Level from start, increasing mileage
Taken Date	19 March 2013
Taken Time	15:53
Filename	A CONTRACTOR OF THE CONTRACTOR
Orientation	Down line
Description	

Inspected By	, Amey (LNE and Midlands)
Inspected Date	19 March 2013
Inspected Time	15:53





Reference EHC HDB_7.1350_D_531521_194527_01_04_2004_11_22_01

0

Location Information

Inspection 5 Chain Reference	HDB_7.1320_D_5	31513_194503_11_12_2007_2	22_00_42		
ELR	HDB				
Start Mileage (Miles. Yards)	7.1350	End Mileage	7.1430	Side	Down
Start Easting	531,521	Northing	194,527		
End Easting	531,545	End Northing	194,597		

Length (Mile.Yards) 0.0081

Start Connection

End Connection HDB_7.1430_D_531545_194597_01_04_2004_11_22_01

Approach False
Structure Name -

Height Ranges

Start Height (m)	3.0	End Height (m)	3.0	
Min. Height (m)	3.0	Max. Height (m)	3.0	

Actual Geometry Information

	Slope Angle (deg)	Slope Hyp (m)	Slope Height (m)	
Lower Slope	28.0	4.3	2.0	
Middle Slope	0.0	0.0	0.0	
Upper Slope	36.0	1.7	1.0	
Actual Slope to Track Separation (m)	3.0			
Actual Crest Width (m)	1.0			

LIDAR Derived Geometry

LIDAR Adjacent Natural Slope Angle

(deg.)

LIDAR Adjacent Natural Slope Direction Not Inspected

LIDAR Maximum Height (m) 0.00
LIDAR Maximum Angle (deg.) 0



Scored Geometry (A-I) Information

>35 degrees, 3m to <10m High (A8) (A) Slope Angle and Height

(B) Slope Angle Adjacent to Earthwork (+)ve falls towards e/work <5 degrees (B2)

(D) Construction Activity None (D1)

(E) Min. Slope to Track Separation Cutting cess width 3-6m (E2)

(F) Historic Geology Alluvium / Estuarine Deposits (F3)

(FF) Bedrock Geology Not Inspected

(FF) Drift Geology Alluvium / Estuarine Deposits (FF3)

BGS Superficial Geology BGS Bedrock Geology

(G) Cutting Slope Crest Width Crest to boundary <1.5m (G1)

(H) Slope Composition at Crest Cohesive - low - intermediate plasticity (H5)

(I) Slope Composition at Toe Mixed granular/cohesive (I4)

(GG) Boulders Present? None Present (GG1) (HH) Rock Outcrops \ Faces Present? None Present (HH1)

Retaining Walls (C) Information

ELR	Start Mileage	End Mileage	Side	Retaining Wall Material	Retaining Wall >= 1m
HDB	7.1348	7.1430	Down	Brick	Minor distress - spalling, pointing etc (C4)

Drainage (J-T) Information

(J) Slope Face Drainage Condition Face dry (J1) (K) Drainage of Adjacent Land None (K1) < 100m (L4) (L) Adjacent Catchment Depth (M) Adjacent Catchment Gradient < 5degs. (M3) Residential (N6) (N) Catchment Surface

Industrial/Hardstanding (N7)

(P) Catchment Geology Mixed (P3) (Q) Cutting Crest Drainage None Visible (Q1) (R) Cutting Crest Concentration Features None (R5) (S) Cutting Slope Erosion None (S5) (T) Cutting Cess Drainage None (T1)

(II) Washout and Earthflow Risk (WERM2) Not WERM2 site (II1)





Movement Indicators (U-EE) Information

(U) Slope Form of Earthwork Uniform toe (U1) And Uniform Crest (U5)

(V) Geomorphology of Adjacent Land No Significant Features (V3)
(W) Track Movements No Significant Features (W2)

(X) Leaning Trees / Structures Bent tree trunks - convex downslope (X4)

 (Y) Cracking
 None (Y1)

 (Z) Mass Movement
 None (Z1)

 (AA) History of Instability
 None (AA1)

(BB) Mining / Removal of Support No Significant Features (BB2)

(CC) Animal Activity Occasional Fox / Badger - <3 burrow holes /50sq.m (CC3)

(DD) Tree Cover Occasional mature trees - <10 trees /20sq.m on slope angles of >25degrees (DD4)

(EE) Ground Cover Dense grass / bramble cover (EE4)

No Line Movement Indicators Present No Point Movement Indicators Present

Intervention Works

Pre-Intervention SCHI -115

No Linear Intervention Works Present No Point Intervention Works Present



Photograph Information

No Photograph Information





Examiner

Completed in Current Season False

Examined By

Amey (LNE and Midlands)

Examined Date 19 March 2013 15:51

Comments

Current Season Comments

Historic Comments 2013:

EE: monitor brick retaining wall at cutting toe which bulges out slightly.

Midlands): 19/03/13:

, Amey (LNE and

CP4 SSHI

	Rot.	Trans.	Earth.	Wash.	Burrow
Actual Score	20	20	6	0	5
Potential Score	79	76	52	58	25
SSHI	6.5	6.5	3.9	3.9	2.6

Earthworks Factor 1.3

Overall SSHI Score 6.5

EHC

EACB

CCT Value 0.00483
EACB 3

Asset Examination Frequency (Years)

Scored Asset Examination Frequency 10
Reviewed Asset Examination Frequency 0
Overall Asset Examination Frequency 10