



C510 – Whitechapel and Liverpool Street Station Tunnels

# Instrumentation & Monitoring Close Out Report - Whitechapel

CRL Document Number: C510-BBM-C2-RGN-D061-50134

Supplier Document Number: N/A

Contract MDL reference C13.014

### 1. Contractor Document Submittal History:

Revision:	Date:	Prepared by:	Checked by:	Approved by:	Reason for issue:
6.0	23-02-18	[REDACTED]	[REDACTED]	[REDACTED]	For Acceptance
		[REDACTED]	[REDACTED]	[REDACTED]	

### 2a. Stakeholder Review Required?

YES  NO

Stakeholder submission required: LU  NR  DLR  RfL  LO  Other: \_\_\_\_\_

Purpose of submission: For no objection  For information

This document has been reviewed by the following individual for coordination, compliance, integration and acceptance and is acceptable for transmission to the above stakeholder for the above stated purpose.

Sign: \_\_\_\_\_ Role: \_\_\_\_\_ Name: \_\_\_\_\_ Date: \_\_\_\_\_

Sign: \_\_\_\_\_ Role: \_\_\_\_\_ Name: \_\_\_\_\_ Date: \_\_\_\_\_

### 2b. Review by Stakeholder (if required):

Stakeholder Organisation	Job Title	Name	Signature	Date	Acceptance
					<input type="checkbox"/>
					<input type="checkbox"/>


### 3. Acceptance by Crossrail:

		<b>Crossrail Review and Acceptance Decal</b>	
This decal is to be used for submitted documents requiring acceptance by Crossrail.			
<input checked="" type="checkbox"/>	Code 1.	Accepted. Work May Proceed	
<input type="checkbox"/>	Code 2.	Not Accepted. Revise and resubmit. Work may proceed subject to incorporation of changes indicated	
<input type="checkbox"/>	Code 3.	Not Accepted. Revise and resubmit. Work may not proceed	
<input type="checkbox"/>	Code 4.	Received for information only. Receipt is confirmed	
[REDACTED]			Date: 12/03/18
Crossrail approval of design, details, calculations,			

### Document Review Sheet

Originator: BBM	Contract Number: C510	Comment Sheet Number:	C510-BBM-C2-XCS-D061-50110	Revision: 6.0
Document Title: Instrumentation and Monitoring Close Out Report Whitechapel			Document Number: C510-BBM-C2-RGN-D061-50134	Revision: 6.0

Reviewer Details			Originator Details	
Lead Reviewer: Pierre D'Alessio	Reviewers Initials: ■		Name:	Date:
Company: Crossrail	Position: DPM-Acting / SR	Date: 09/03/18 12/03/18	Company:	Signature:
<b>DECAL Code: 1</b>	Recommended Action: Objection <input type="checkbox"/> No Objection <input checked="" type="checkbox"/> No Objection(Revise as indicated below) <input type="checkbox"/>		Position:	

Reviewer Comments				Originator Response	
Comment Code Legend: A = action required on this issue                        B = action required for next issue                        C = advisory comment				Status Code Legend: i = incorporated                        ii = open/under review                        iii = evaluated/not incorporated	
Comment number	Comment Code	Document Reference	Review Comment	Status Code	Originator Comments
1.			This close out report rev 6.0 has been checked with BBMV and all comments have been addressed and incorporated from rev 5.0. All comments reviewed and agreed with BBMV as at 07/03/18.  All outstanding and remaining monitoring with the exception of the Blind Beggar Wall which is being transferred over to C512, has been agreed to be stopped as detailed by C122. Please refer to included email and table confirming this.  <div style="text-align: center;">                           FW WHI proposed monitoring points - Blk                     </div>		

From:  
Sent:  
To:  
Cc:  
Subject:

RE: WHI proposed monitoring points - Block 8

Block 8 agreed.  
The only remaining monitoring to continue at WHI is for the BB Wall.

Location	Type	Monitoring ID	Specific Comment	General comment
Block 4 – BB Wall	Tiltmeters Crackmeters			Monitoring to continue until remedial works implemented.
Hanbury Street	BREs		Update positive trends to green.	Agreed
	Studs	4 no.	Supplementary evidence provided.	Agreed
Block 1 - Swanlea	BREs	LB50146	120 day trend not applicable (affected by monitoring accuracy)	Agreed
	Studs	4no. With "trends not applicable"	Provide supplementary evidence or further details why monitoring ceased.	Agreed
Block 5 – Kempton Ct	BREs		Supplementary evidence provided.	Agreed
	Studs		Supplementary evidence provided.	Agreed
Block 7 - Trinity	BREs	BREs		Agreed
	Studs			Agreed
Block 8 – Sports Hall	Retros BREs Studs Crackmeters (auto and manual)	LP50819	Supplementary evidence provided for LP50825 and LB50824	Agreed
Block 9 – Castlemaine Rd / Vallance Rd	BREs	50912-17	Latest survey date is incorrect and 120 day trends are wrong.	Agreed
	Studs		Explanation for LP50920 appears reasonable.	Agreed
Block 10 – Vallance Rd	BREs	BREs	LB51003 is covered by cladding – therefore previously agreed to decommission.	Agreed
Block 20 Brady St	Studs		Include "agreed" where appropriate.	Agreed

1

2.

			Provide supplementary evidence.	
Block 21 – Whitechapel Rd	Studs		Include trends for 25 and 26	Agreed
Block 25 – Durward St	Studs	52501	Destroyed by roadworks "agreed" Recheck trend Destroyed by roadworks Stable 6 month trend	Agreed
		52501-06		
		52509		
		52524 & 25 52515		
Block 26 – Castlemaine St	Studs	LP52601 and 03	Update comment as "sensor removed by others"	Agreed
Block 27 – Lomas St	Studs			Agreed
Block 28 – Vallance Rd	studs	All	Possibly affected by previous excavations	Agreed

Regards,

3.					
4.					
5.					
6.					
7.					
8.					

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7.	C	S8.1.7	LP50105 – Why is this point not proposed, as it has not been read since 2015.	i	Point included p.16
8.	A	S8.2.7	A number of sensors were previously shown in Rev 4 as destroyed (sensors between LB50516-32), however this is not the case. Please update the table including the points that are still being monitored. In addition, if sensors were destroyed please provide supplementary evidence.  Monitoring of LP50518 should continue as it has not met spec requirements and is adjacent to points with ongoing settlement.	i	Table updated accordingly. Supplementary evidence provided.  LP50518: ERP Agreed p. 23-25
9.	A	S8.2.7	This table does not include the studs from Section 2 shown in rev 4 as being outstanding. Also LP50552 is not included. Update the table accordingly.	i	Table updated accordingly. p.24
10.	A	S8.3.7	LB50709 was wrongly stated as being destroyed in Rev 4 and needs to be included in this revision.	i	LB50709 included. p.32
11.	A	S8.4.2	Para 2 – why are the crackmeters not included in the table on S8.4.10?	i	Crackmeters included p.43
12.	A	General	Provide supplementary evidence where sensors were previously listed as destroyed.	i	Supplementary evidence provided where available
13.	A	S8.6.6	The 120 day trend for LP52009 does not tally with that given in App G.  Why is LP52027 not included, as it was outstanding in Rev 4.	i	LP52009 trend updated. AppG has been removed as not required.  LP52027 included p.58
14.	A	Rev 4	Why are outstanding sensors from Rev 4 not included in this revision? This applies to Block 21 and 26.	i	Block 21 and 26 sensors have been included. p26 &74
15.	A	XR's	Your previous comment states that extensometers are being dealt with under a separate document. Please provide us with a copy of this separate document and provide document number. Please note that reference to the XR's was included in Rev 3.	i	Included App D
16.	B	S8.11.7	The table references supplementary evidence for LB100205 – where is this information?	i	Data updated p.90
17.	C	S9 (and relevant appendix)	Are all these appendices needed, as some of the data appears to be a repetition. In addition, this document is very large so if the information is not needed it is suggested it is removed (see comments below): Appendix B – is this needed as it only summarises what have been previously agreed (ie. shown as proposed in App E and F already) Appendix C & D – most of this information (if not all) is already included in App F. Are either of these appendices necessary?	i	All Appendices have been replaced by Appendix E that includes all sensors' statuses at the time Rev.4 was submitted

18.	B	App E	A table should be included listing all sensors where decommissioning was agreed.  Why are there only selected graphs for Block 1 included in this appendix? If they are included in Rev 3 then is there any real need for repetition in this revision (similar query for Rev 4 in App F). The summary table are more applicable where we have agreed to decommission sensors.	i	Appendix E listing all sensors' statuses at the time Rev.4 was submitted  All graphs that had been included in Rev.5 apprentices are not required. Now removed.
19.	C	App F	Suggest you include the table first before any graphs.		
20.	B	App G	Part of the drawing is not shown. Also include label for Cavern on EB tunnel.	i	All drawings that had been included in Rev.5 apprentices are not required. Now removed
21.	B	Crackmeters	Please include reference to all crackmeters as this has not been provided in previous revisions.	i	All crackmeters included. p.43 & AppC
22.	B	BB Wall	Blind Beggar Wall – Decommissioning for crackmeters and automated tiltmeters has yet to be agreed. The ERP did not agree to the decommissioning.	i	Whilst crackmeters and automated tiltmeters don't show any movement and all monitoring sensors located in the area have achieved 2mm/y instrumentation on BB Wall will be retained until the repaired works are completed. Information provided in App C
23.	C		Numerous typographical or grammatical errors noted.		
General Comments: As stated in Comment 1, the tables should be updated after further monitoring rounds and discussions held on site to determine where monitoring can cease. Only one further revision of this document should be issued.					

Document Revision History		
Revision	Date	Purpose
1.0	23/09/2015	For Acceptance
2.0	15/04/2016	For Acceptance
3.0	22/12/2016	For Acceptance
4.0	10/04/2017	For Acceptance
5.0	02/08/2017	For Acceptance
6.0	23/02/2018	For Acceptance

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## 1. Purpose

The purpose of this close out report as defined by section KX10.4103 of “C122 – M&W Specification KX10 – Instrumentation & Monitoring” (Document Number: C122–OVE–Z4–RSP–CR001–00007) is prior to the decommissioning of any instrumentation, the contractor shall produce a report which summarises the data from the instrumentation. The report shall demonstrate that the rate of change in the data has reached an acceptably small rate either in accordance with specified rates. The summary of the data for the instruments is to relate to the construction activities which produced any observed changes.

To gain approval to decommission instrumentation and monitoring, the monitoring data will be analysed to demonstrate settlement does not breach specified rates after the minimum monitoring period is complete.

**N.B.** Monitoring sensors refers to all monitoring points; which includes BREs, road studs, extensometers, inclinometers, tilt meters, crack meters, retros (survey stickers) and prisms. Please note this is not an exhaustive list and does not include monitoring systems/equipment, such as communication boxes.

## 2. Scope

The close out report for Whitechapel has been created to collate all monitoring sensors into one document to demonstrate the monitoring have met the Crossrail specification and can be agreed to decommission.

The Crossrail specification differs for different assets and also for each sensor type. The specification for all monitoring is listed within I&M schedule C122-OVE-C2-DDJ-CR00-Z-31521 which highlights the acceptable settlement rates with the requirements to monitor at different construction phases, and duration for completion. To summarise the I&M schedule states that automated monitoring is to continue for a period of 6 months Post Construction after the completion of the SCL tunnelling works and decommissioned with agreement with the Project Manager. The manual monitoring is to continue 4 months Post Construction and then 12 months long term monitoring, until the settlement rate is equal or less than 2mm per annum.

Contrary to the Specification for Instrumentation and Monitoring (C122-OVE-Z4-RSP-CR001-00007), the Project Managers Instruction (PMI) C510-PMI-01102 replaces long term monitoring with satellite interferometry (InSAR) for the areas agreed by the project manager. If long term monitoring responsibilities are removed from BBMV and covered by satellite interferometry, the specified settlement criteria may not be met by BBMV. If this occurs, reference to the agreement will be provided to state BBMV are no longer responsible for the sensors and consequently decommissioning acceptance will be proposed.

In some cases it may be agreed with the project manager to cease monitoring prior to meeting the specified rates. The close out report will be revised to incorporate these agreements prior to decommissioning. Due to multiple influencers and large construction monitoring zones, it may be prudent to submit successive document revisions for close out reports, where the specification is not met or the minimum post construction monitoring has not been achieved.

The monitoring at Whitechapel is split into 10 primary areas, blocks 1 to 10. During the construction the existing monitoring road studs and additional installed road studs were reconfigured and an additional 9 blocks were created. A further block (Hanbury Street) was also added to capture the full extents of the TBM drive which exited Whitechapel from the western side. The analysis for this close out report has also been divided into these same block numbers.

### 3. References

All the instrumentation was installed in accordance with drawings and photomontages listed below.

Table 1: Relevant drawings and photomontages

<b>I &amp; M Drawings</b>	
C122-OVE-C2-DDA-CR001_Z-31522	Asset Protection I and M Buildings
C122-OVE-C2-DDA-CR001_Z-31521	Asset Protection I and M Ground Surface and In-ground
C122-OVE-C2-DDA-CR001_Z-21531	Asset Protection I and M 333-335 Whitechapel Road (includes 1-48 Albion Yard)
C510-OVE-C2-DDA-CR001_Z-21532	Asset Protection I and M Swanlea School, 31 Brady Street
<b>Photo Montages</b>	
C122-OVE-C2-DDJ-CR001_Z-39901	.....
C122-OVE-C2-DDJ-CR001_Z-39969	Proposed Building Instrumentation
<b>The settlement contours used in this report are extracted from drawings</b>	
C122-OVE-C2-DDA-CR001_Z-21315	Settlement Contours Final Stage Routewide Plan Sheet 15 of 38
C122-OVE-C2-DDA-CR001_Z-21316	Settlement Contours Final Stage Routewide Plan Sheet 16 of 38

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## 4. Relevant Installation Reports

Table 2: Installation reports and their CRL Document Number

CRL Document Number	Title
C510-BBM-C2-RGN-D061-50014	Installation Report - Swanlea School (Block-1), Whitechapel
C510-BBM-C2-RGN-D061-50015	Installation Report - Sainsbury's (Block-2), Whitechapel
C510-BBM-C2-RGN-D061-50016	Installation Report -White Hart and 2-12 Cambridge Heath (Block-3), Whitechapel
C510-BBM-C2-RGN-D061-50017	Installation Report - Albion Brewery (Block-4) Whitechapel
C510-BBM-C2-RGN-D061-50018	Installation Report - Kempton court (Block-5), Whitechapel
C510-BBM-C2-RGN-D061-50046	Monitoring Installation Report - Whitechapel Station (Block-6)
C510-BBM-C2-RGN-D061-50019	Installation Report - Trinity Hall (Block-7), Whitechapel
C510-BBM-C2-RGN-D061-50020	Installation report – Sport Center (Block 8) Whitechapel
C510-BBM-G-RGN-D061-50010	Installation Report - Castlemain (Block-9), Whitechapel
C510-BBM-G-RGN-D061-50009	Installation Report - 41-49 Vallance Road (Block-10), Whitechapel
C510-BBM-C2-RGN-D061-50089	Installation Report Shaft (Block 4), Whitechapel St.
C510-BBM-C2-RGN-D061-50033	Instrumentation C510-IM50201 - Whitechapel - Inclinometers
C510-BBM-C2-RGN-D061-50034	Instrumentation C510-IM50202 - Whitechapel - Inclinometers
C510-BBM-C2-RGN-D061-50035	Inclinometer Installations in Whitechapel Area - Installation Report IM50203
C510-BBM-C2-RGN-D061-50036	Inclinometer Installations in Whitechapel Area Installation Report IM50204
C510-BBM-C2-RGN-D061-50037	Instrumentation C510-IM50501 - Whitechapel - Inclinometer Redrilled
C510-BBM-C2-RGN-D061-50038	Inclinometer Installations in Whitechapel Area Installation Report IM50502
C510-BBM-C2-RGN-D061-50039	Inclinometer Installations in Whitechapel Area Installation Report IM50503
C510-BBM-C2-RGN-D061-50040	Instrumentation C510-IM50101 - Whitechapel - Inclinometer Redrilled
C510-BBM-C2-RGN-D061-50041	Instrumentation C510-IM50102 - Whitechapel - Inclinometer Redrilled
C510-BBM-C2-RGN-D061-50090	Installation Report, In ground Inclinometer, Instrumentation C510-IM50801 - Whitechapel - Inclinometer (Redrilled)
C510-BBM-C2-RGN-D061-50072	Installation Report Rod Extensometer C510-XR50301 - Whitechapel
C510-BBM-C2-RGN-D061-50073	Installation Report Rod Extensometer C510-XR50302 - Whitechapel
C510-BBM-C2-RGN-D061-50074	Installation Report Rod Extensometer C510-XR50303 - Whitechapel
C510-BBM-C2-RGN-D061-50061	Installation Report Rod Extensometer C510-XR50201 - Whitechapel
C510-BBM-C2-RGN-D061-50062	Installation Report Rod Extensometer C510-XR50501 - Whitechapel
C510-BBM-C2-RGN-D061-50075	Installation Report Rod Extensometer C510-XR50502 - Whitechapel
CRL Document Number	Title
C510-BBM-C2-RGN-D061-50063	Installation Report Rod Extensometer C510-XR50503 - Whitechapel
C510-BBM-C2-RGN-D061-50064	Installation Report Rod Extensometer C510-XR50504 - Whitechapel
C510-BBM-C2-RGN-D061-50065	Installation Report Rod Extensometer C510-XR50505 - Whitechapel
C510-BBM-C2-RGN-D061-50066	Installation Report Rod Extensometer C510-XR50506 - Whitechapel
C510-BBM-C2-RGN-D061-50071	Installation Report Rod Extensometer C510-XR50101- Whitechapel
C510-BBM-C2-RGN-D061-50067	Installation Report Rod Extensometer C510-XR50102 - Whitechapel
C510-BBM-C2-RGN-D061-50076	Installation Report Rod Extensometer C510-XR50801 - Whitechapel
C510-BBM-C2-RGN-D061-50068	Installation Report Rod Extensometer C510-XR50304 - Whitechapel
C510-BBM-C2-RGN-D061-50077	Installation Report Rod Extensometer C510-XR50901 - Whitechapel
C510-BBM-C2-RGN-D061-50069	Installation Report Rod Extensometer C510-XR50902 - Whitechapel
C510-BBM-C2-RGN-D061-50078	Installation Report Rod Extensometer C510-XR50903 - Whitechapel
C510-BBM-C2-RGN-D061-50070	Installation Report Rod Extensometer C510-XR50904 - Whitechapel

## 5. ERP Meetings

To assist in managing the manual monitoring and the frequencies of the manual monitoring, periodic ERP meeting were held between CRL and BBMV.

After the completion of the Whitechapel Close Out report revision 1 it was agreed that all automated monitoring could cease and be decommissioned.

The meetings focused on locations where monitoring could be ceased based upon the average settlement rates at each specific location and whether there were specific risks. Graphs displaying sensor settlements were presented and the settlement trends were evaluated. Sensors representing a rate of settlement of less than 2mm per year were agreed and recorded into an ERP table.

The latest ERP table produced to log agreed locations where monitoring could be ceased is in Appendix A.

The proceeding chapters of this document will concentrate on the remaining locations, providing the latest settlement rates for each sensor to assess whether the contractual settlement rates have been achieved.

## 6. Construction Programme

Extent of Influence (EOI) monitoring areas were established to record ground movements in relation to C510 construction. The EOI purpose is to ensure all assets and areas are adequately monitored for movement during construction, this is achieved by controlling when and how often monitoring occurs. The Asset Protection Instrument and Monitoring (I&M) Schedules (C122 – OVE-C2-DDJ-CR001\_Z-31521) states the extent of influence (EOI) of an active tunnel is 2 x depth from the active tunnel face. The EOI is used to determine when monitoring sensors are no longer influenced by construction and can be considered for decommissioning.

The original specification received amendments to manual monitoring frequency within the EOI through several PMIs, with the latest PMI (C510-PMI-01103) establishing an Active ZOI (Zone of Influence) as 2 x tunnel diameter from the active tunnel face projected to the surface. The Active ZOI changed the rates of monitoring frequency, it did not replace EOI. The EOI is used to determine when a monitoring sensor is eligible for decommissioning. Whereas, active ZOI is used to analyse manual monitoring movement against construction.

To assist with identifying the cause of any settlements that has occurred on the assets at Whitechapel, settlement graphs for all sensors and any relating construction activity have been created.

Each graph shows the tunnel constructions that lie within a 60m radius (2 x 30m depth) of the location of the sensors that are displayed in each graph. Additional plots have been added to this report to highlight the tunnel construction that would have the potential to significantly affect each block. A table for each block has been added to list each sensor status. Within the table the last construction activity that would have the potential to affect settlement of each sensor has also been added with its corresponding date. This has the added benefit to assist with analysing the length of period that each sensor has been monitoring for long term effects.

The information presented in the table below is an example of the data used in all monitoring graphs, to show the ground movements in relation to construction.

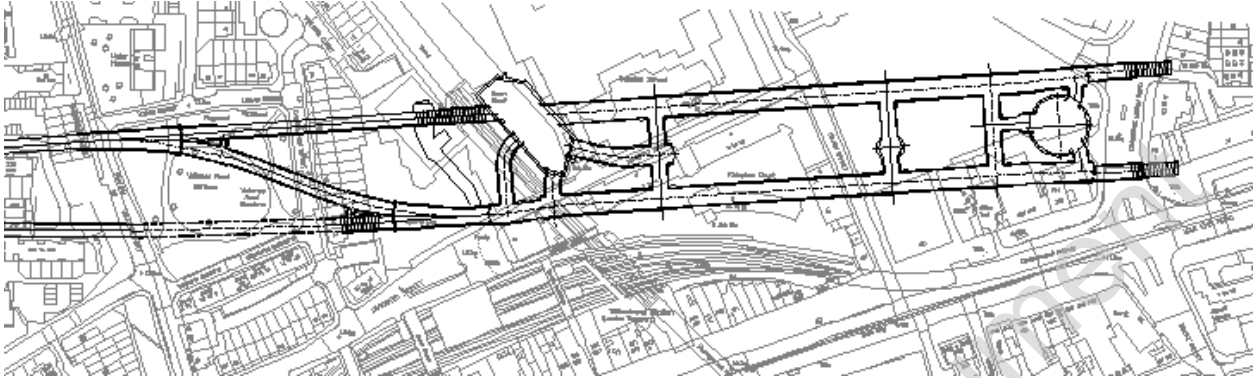
TUNNEL ADVANCES STARTS & ENDS FOR GRAPHS								
No. Start	No. End	Tunnel Code	Tunnel Reference	Primary Layer Type	Start Date	End Date	Start Advance	End Advance
1	1	CAVE-Full	CAVE	Full	15/07/2014	29/07/2014	1	23
2	2	CAVE-Invert	CAVE	Invert	30/06/2014	05/07/2014	21	38
3	3	CAVE-Invert-Right	CAVE	Invert-Right	04/06/2014	19/06/2014	191	273
4	4	CAVE-Enlargement	CAVE	Enlargement-RightL	27/05/2014	03/06/2014	177	190
5	5	RTEW-Pilot	RTEW	Pilot	02/03/2014	24/03/2014	128	200

Appendix B shows a schematic of the WHI Tunnel Reference Layout.

## 7. Whitechapel Location Plan

### 7.1. SCL Tunnel Location Plan

The plan below shows the Whitechapel SCL Platform tunnels overlaid onto the OS Tile.



### 7.2. Block Definitions

The plan below highlights the different areas at Whitechapel predefined into Block numbers. For clarity each block is repeated at a larger scale within this document.

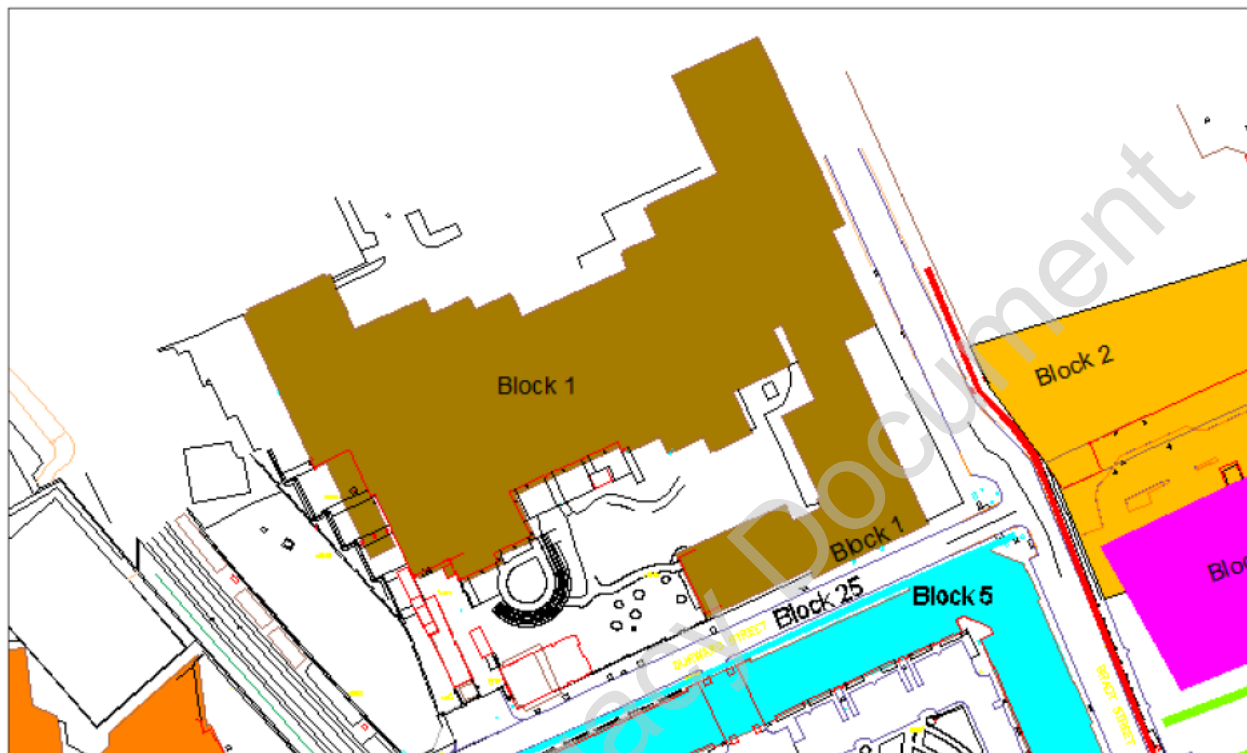




## 8. Monitoring Sensor Analysis per Block

### 8.1. Block 01 Data Analysis

#### 8.1.1 Block 01 Location Plan – (Swanlea School)



#### 8.1.2 Block 01 Monitoring Sensors

The monitoring sensors within Whitechapel Block 01 (Swanlea School) consisted of automated and manual monitoring. The automated monitoring included geodetic targets attached to the external facades and water cells installed internally within the sixth form and the kitchen areas.

All automated monitoring has been decommissioned within Whitechapel Block 01.

The manual monitoring included in Block 01 consists of both BRE's (including Invar scales) installed into the external façade, and road studs installed in the hard standings.

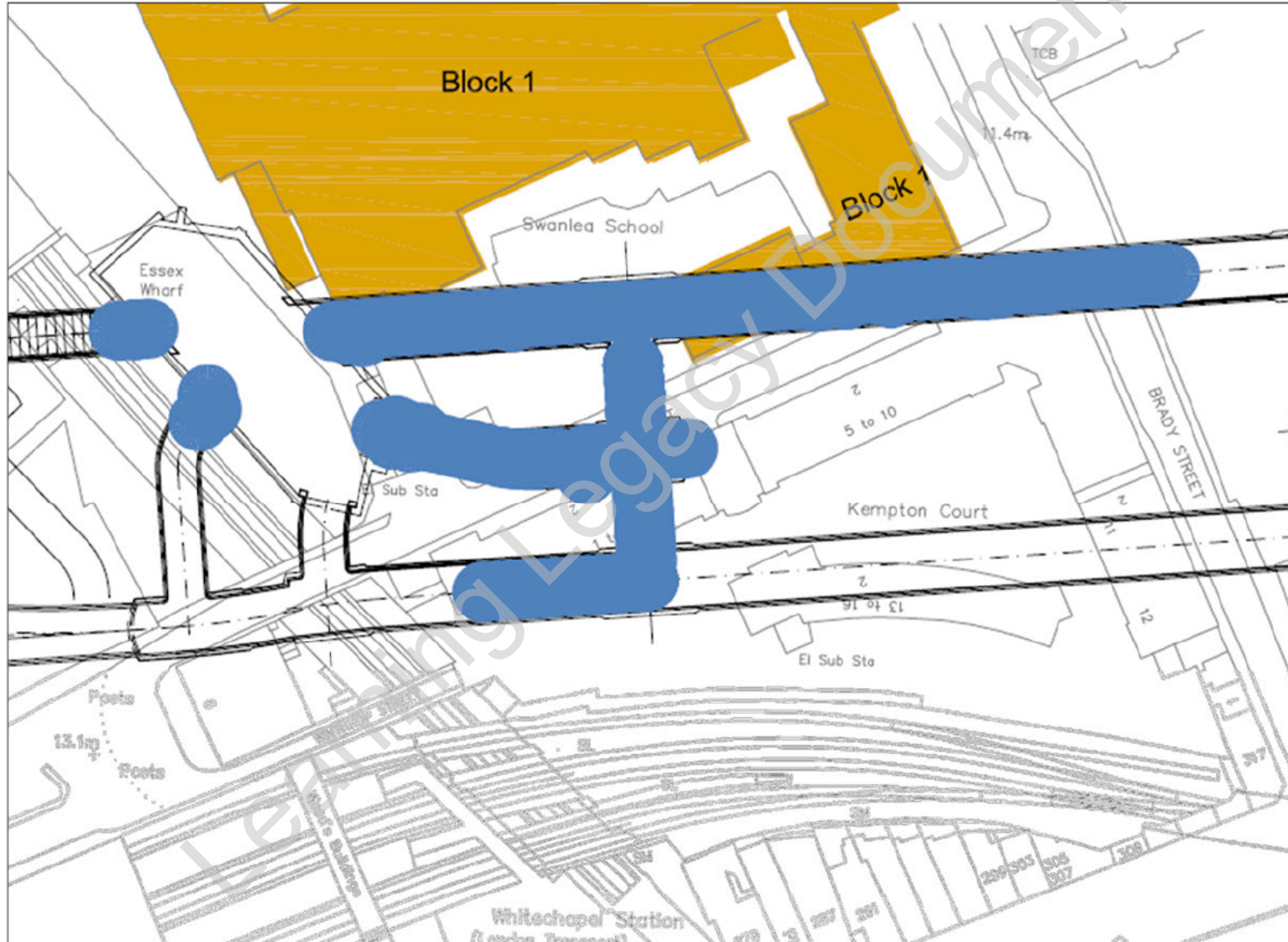
The BREs are configured into 8 sections along the facades of Swanlea School, and the road studs are in 1 section along Durward Street north pavement.

BRE Sections 3, 4, 5, 6 and 7 were agreed to cease monitoring in the ERP meeting and are referenced in appendix E.

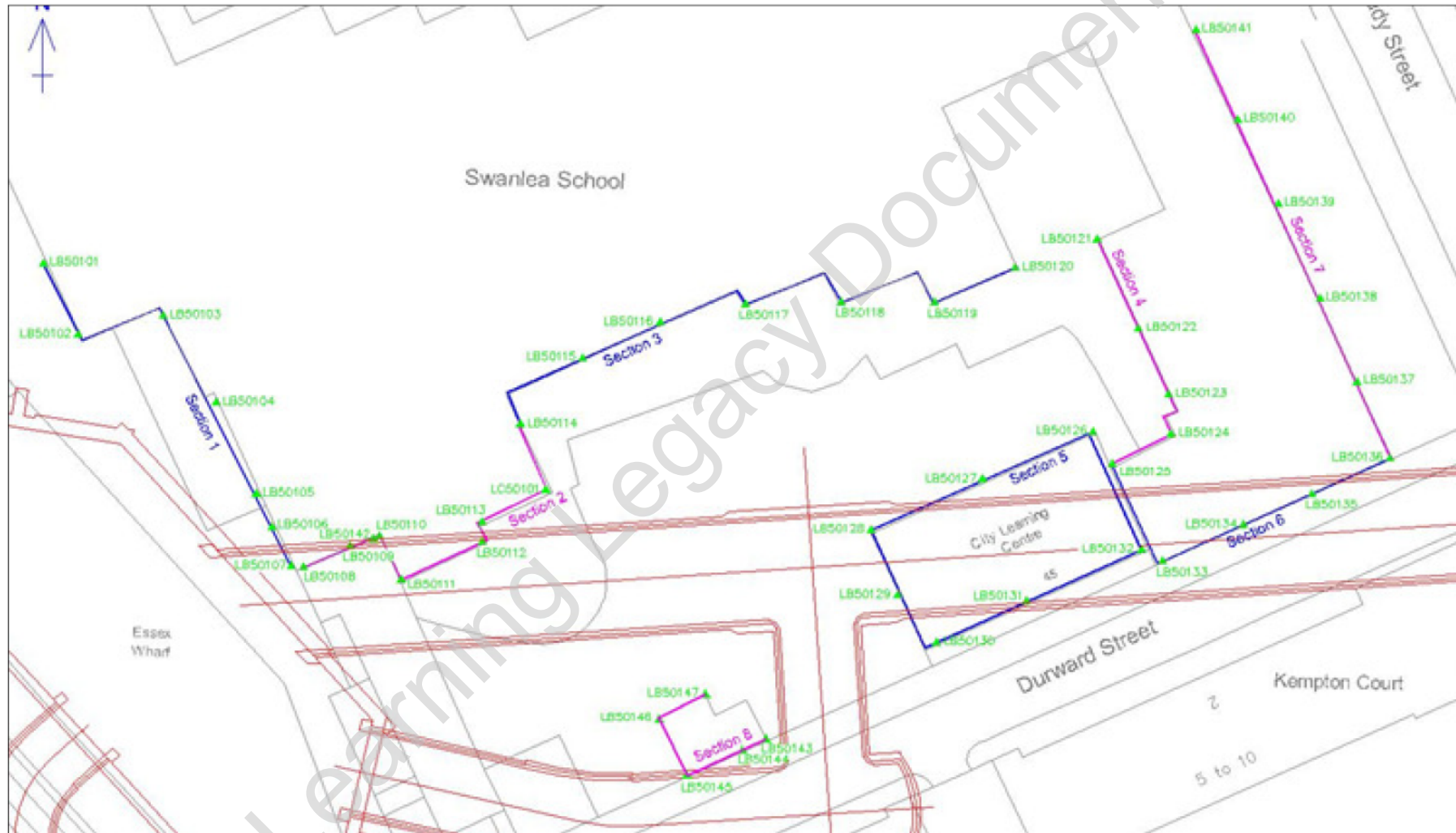
BRE Sections 1, 2, 8 and road studs Section 1 were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring on all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 01 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

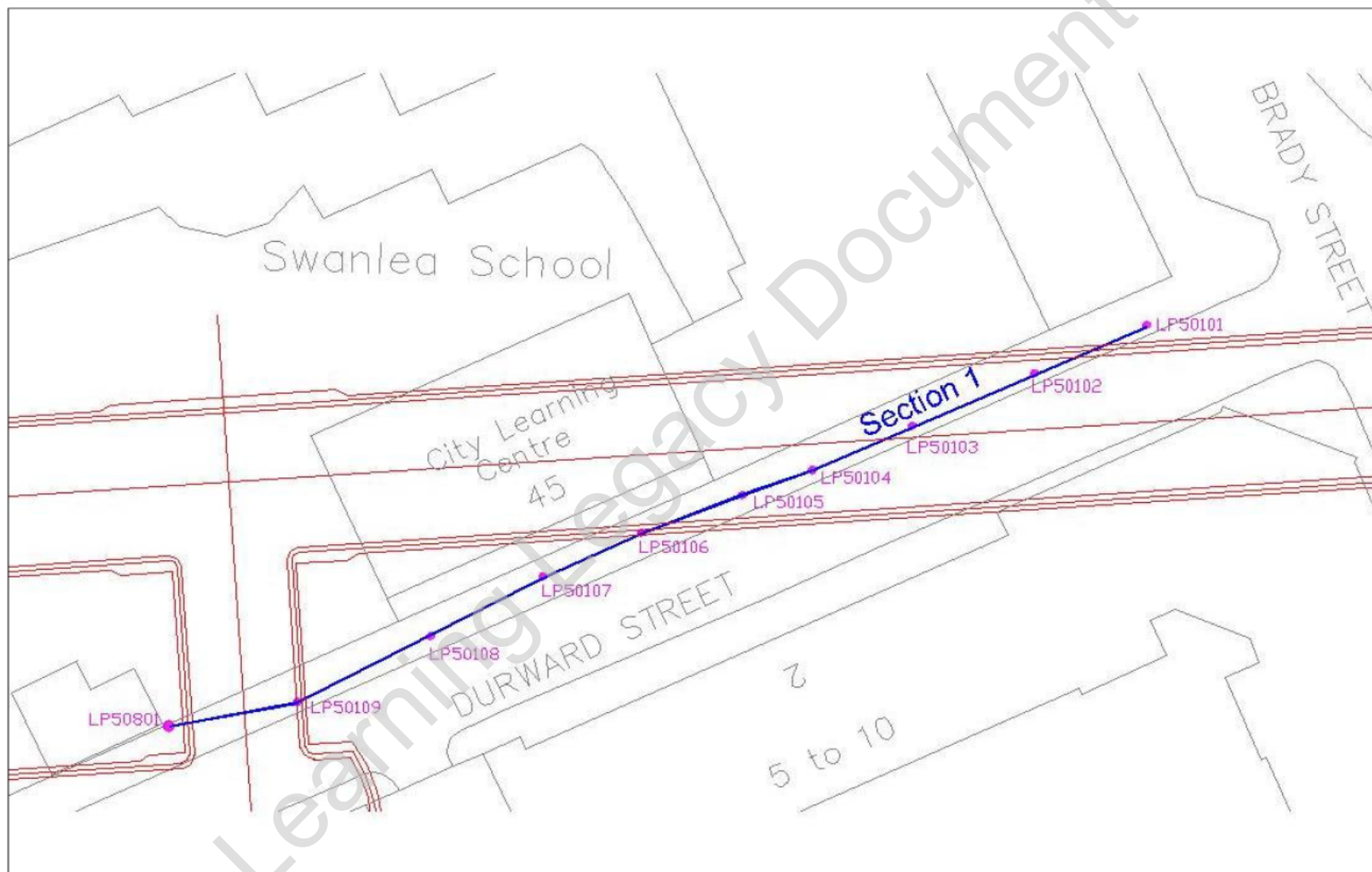
8.1.3 Block 01 - Plot to show Swanlea School location and the SCL Tunnels within the a 60m ZOI



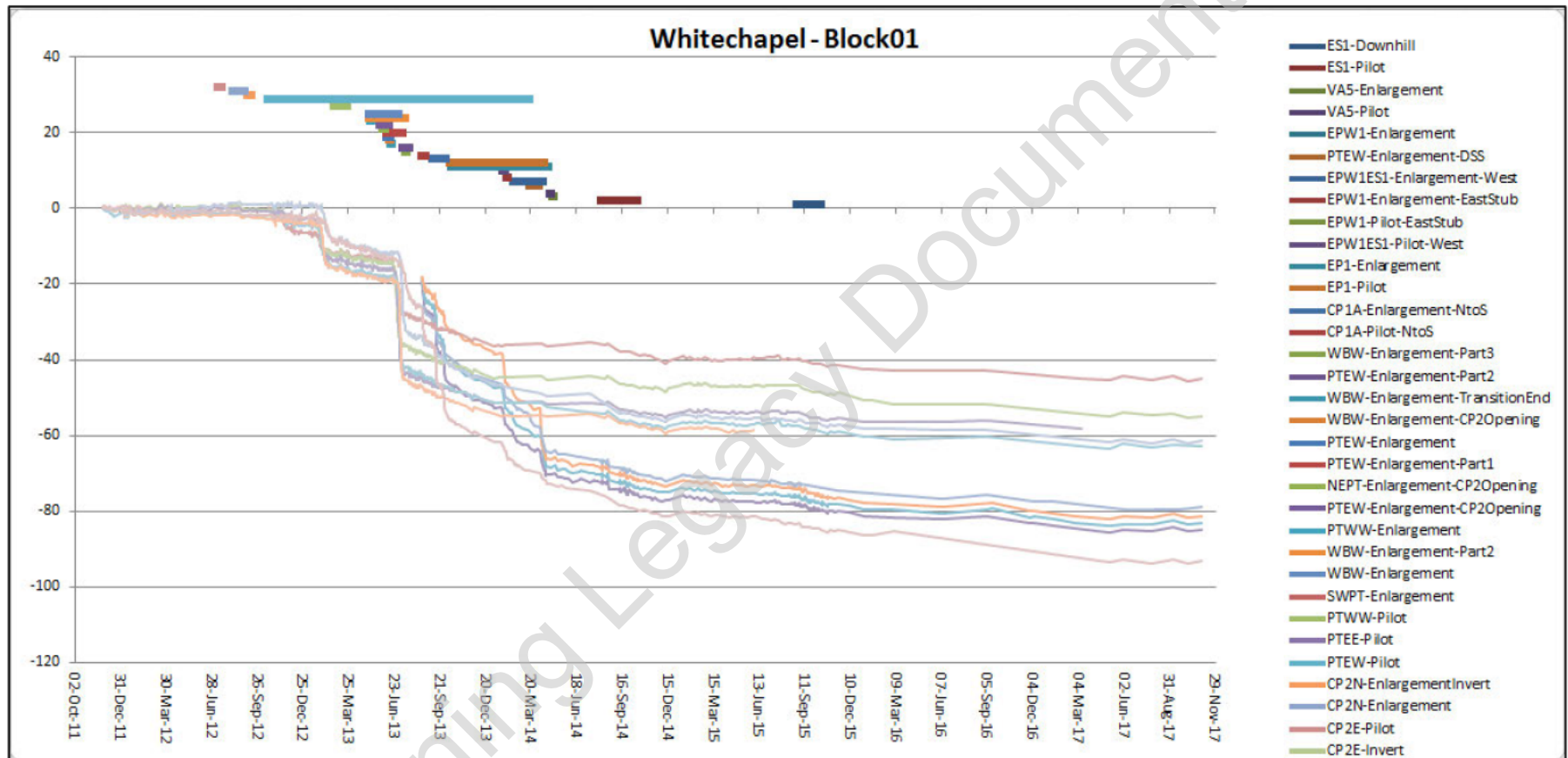
### 8.1.4 Block 01 Section Configuration of the BRE and Invar Locations



### 8.1.5 Block 01 Section Configuration of the LP Locations



8.1.6 Block 01 – Outstanding Monitoring Sensors displayed with the Construction Activities



### 8.1.7 Block 01 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 01

02/11/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	Last Construction Date	EOI Last Primary Layer Construction	Latest Surveyed Date	AVERAGE SETTLEMENT TREND			Decommissioning Status Comment	Decommissioning Status
										Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days		
C510-LB50101	Block 501	SS0101	External	Manual	LB	BRE	06/04/2014	WHI_EBRTE_Enlargement_Adv-46	10/10/2016	2.8mm/yr	1.2mm/yr	0.6mm/yr	2mm per annum specification met	Agreed
C510-LB50102	Block 501	SS0101	External	Manual	LB	BRE	06/04/2014	WHI_EBRTE_Enlargement_Adv-46	10/10/2016	3.1mm/yr	1.2mm/yr	0.1mm/yr	2mm per annum specification met	Agreed
C510-LB50103	Block 501	SS0101	External	Manual	LB	BRE	06/04/2014	WHI_EBRTE_Enlargement_Adv-46	10/10/2016	2.9mm/yr	1.3mm/yr	0.2mm/yr	2mm per annum specification met	Agreed
C510-LB50104	Block 501	SS0101	External	Manual	LB	BRE	01/04/2014	WHI_PTEW_Enlargement_Adv-240	10/10/2016	2.8mm/yr	1.1mm/yr	-0.3mm/yr	2mm per annum specification met	Agreed
C510-LB50105	Block 501	SS0101	External	Manual	LB	BRE	29/08/2015	WHI_ES1_Enlargement_Adv-3	10/10/2016	2.8mm/yr	1.2mm/yr	-0.2mm/yr	2mm per annum specification met	Agreed
C510-LB50106	Block 501	SS0101	External	Manual	LB	BRE	08/09/2015	WHI_ES1_Enlargement_Adv-15	10/10/2016	2.6mm/yr	1.6mm/yr	-0.2mm/yr	2mm per annum specification met	Agreed
C510-LB50107	Block 501	SS0101	External	Manual	LB	BRE	16/09/2015	WHI_ES1_Enlargement_Adv-23	10/10/2016	2.9mm/yr	2.8mm/yr	-1.0mm/yr	2mm per annum specification met	Agreed
C510-LB50108	Block 501	SS0102	External	Manual	LB	BRE	16/09/2015	WHI_ES1_Enlargement_Adv-23	10/10/2016	3.1mm/yr	1.6mm/yr	-1.1mm/yr	2mm per annum specification met	Agreed
C510-LB50109	Block 501	SS0102	External	Manual	LB	BRE	16/09/2015	WHI_ES1_Enlargement_Adv-23	10/10/2016	2.6mm/yr	2.7mm/yr	-0.4mm/yr	2mm per annum specification met	Agreed
C510-LB50110	Block 501	SS0102	External	Manual	LB	BRE	16/09/2015	WHI_ES1_Enlargement_Adv-23	10/10/2016	3.0mm/yr	3.8mm/yr	-0.8mm/yr	2mm per annum specification met	Agreed
C510-LB50111	Block 501	SS0102	External	Manual	LB	BRE	16/09/2015	WHI_ES1_Enlargement_Adv-23	10/10/2016	2.5mm/yr	3.0mm/yr	-1.2mm/yr	2mm per annum specification met	Agreed
C510-LB50112	Block 501	SS0102	External	Manual	LB	BRE	16/09/2015	WHI_ES1_Enlargement_Adv-23	10/10/2016	3.8mm/yr	3.0mm/yr	-0.6mm/yr	2mm per annum specification met	Agreed
C510-LB50113	Block 501	SS0102	External	Manual	LB	BRE	16/09/2015	WHI_ES1_Enlargement_Adv-23	10/10/2016	3.2mm/yr	3.2mm/yr	0.2mm/yr	2mm per annum specification met	Agreed
C510-LB50114	Block 501	SS0102,SS0103	External	Manual	LB	BRE	01/04/2014	WHI_PTEW_Enlargement_Adv-240	10/10/2016	2.3mm/yr	1.4mm/yr	-0.3mm/yr	2mm per annum specification met	Agreed
C510-LB50142	Block 501	SS0102	External	Manual	LB	BRE	13/10/2015	WHI_ES1_Downhill-0_Adv-27	10/10/2016	2.8mm/yr	2.7mm/yr	-0.6mm/yr	2mm per annum specification met	Agreed
C510-LB50143	Block 501	SS0108	External	Manual	LB	BRE	13/10/2015	WHI_ES1_Downhill-0_Adv-27	02/11/2017	0.3mm/yr	1.1mm/yr	-2.6mm/yr	Stable 6 month trend	Proposed
C510-LB50144	Block 501	SS0108	External	Manual	LB	BRE	13/10/2015	WHI_ES1_Downhill-0_Adv-27	02/11/2017	0.0mm/yr	1.4mm/yr	-2.7mm/yr	Stable 6 month trend	Proposed
C510-LB50145	Block 501	SS0108	External	Manual	LB	BRE	13/10/2015	WHI_ES1_Downhill-0_Adv-27	02/11/2017	0.1mm/yr	0.5mm/yr	-2.5mm/yr	Stable 6 month trend	Proposed
C510-LB50146	Block 501	SS0108	External	Manual	LB	BRE	13/10/2015	WHI_ES1_Downhill-0_Adv-27	16/01/2017	#N/A	-2.3mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
C510-LB50147	Block 501	SS0108	External	Manual	LB	BRE	13/10/2015	WHI_ES1_Downhill-0_Adv-27	02/11/2017	0.8mm/yr	-1.8mm/yr	-2.9mm/yr	Stable 6 month trend	Proposed
C510-LC50101	Block 501	SS0102	External	Manual	LC	Invar Scale	01/04/2014	WHI_PTEW_Enlargement_Adv-240	10/10/2016	2.6mm/yr	2.5mm/yr	-0.5mm/yr	2mm per annum specification met	Agreed
C510-LP50101	Block 501	SS0101	External	Manual	LP	Road Stud	04/07/2013	WHI_PTEW_Enlargement_Adv-117	02/11/2017	-1.7mm/yr	-0.3mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
C510-LP50102	Block 501	SS0101	External	Manual	LP	Road Stud	07/07/2013	WHI_PTEW_Enlargement_Adv-129	02/11/2017	-2.7mm/yr	-1.0mm/yr	-2.6mm/yr	Stable 6 month trend	Proposed
C510-LP50103	Block 501	SS0101	External	Manual	LP	Road Stud	09/07/2013	WHI_PTEW_Enlargement_Adv-143	05/09/2016	#N/A	#N/A	#N/A	Sensor not measured since September 2016. Trend not applicable -Supplementary evidence supplied	Destroyed
C510-LP50104	Block 501	SS0101	External	Manual	LP	Road Stud	11/07/2013	WHI_PTEW_Enlargement_Adv-152	02/11/2017	-0.8mm/yr	0.8mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
C510-LP50105	Block 501	SS0101	External	Manual	LP	Road Stud	12/07/2013	WHI_PTEW_Enlargement_Adv-159	03/06/2015	#N/A	#N/A	#N/A	Pavers replaced. Sensor not measured since June 2015. Trend not applicable.	Destroyed
C510-LP50106	Block 501	SS0101	External	Manual	LP	Road Stud	16/02/2014	WHI_EPWIE_Enlargement_Adv-8	05/09/2016	#N/A	#N/A	#N/A	Sensor not measured since September 2016. Trend not applicable -Supplementary evidence supplied	Destroyed
C510-LP50107	Block 501	SS0101	External	Manual	LP	Road Stud	16/02/2014	WHI_EPWIE_Enlargement_Adv-8	02/11/2017	-1.0mm/yr	-0.3mm/yr	-2.5mm/yr	Stable 6 month trend	Proposed
C510-LP50108	Block 501	SS0101	External	Manual	LP	Road Stud	10/04/2014	WHI_EPW1W_Enlargement_Adv-15	12/10/2015	#N/A	#N/A	#N/A	Sensor not measured since October 2015. Trend not applicable -Supplementary evidence supplied	Destroyed
C510-LP50109	Block 501	SS0101	External	Manual	LP	Road Stud	13/04/2014	WHI_EPW1W_Enlargement_Adv-33	02/11/2017	-0.5mm/yr	0.0mm/yr	-3.5mm/yr	Stable 6 month trend	Proposed

### 8.1.8 Supplementary Evidence

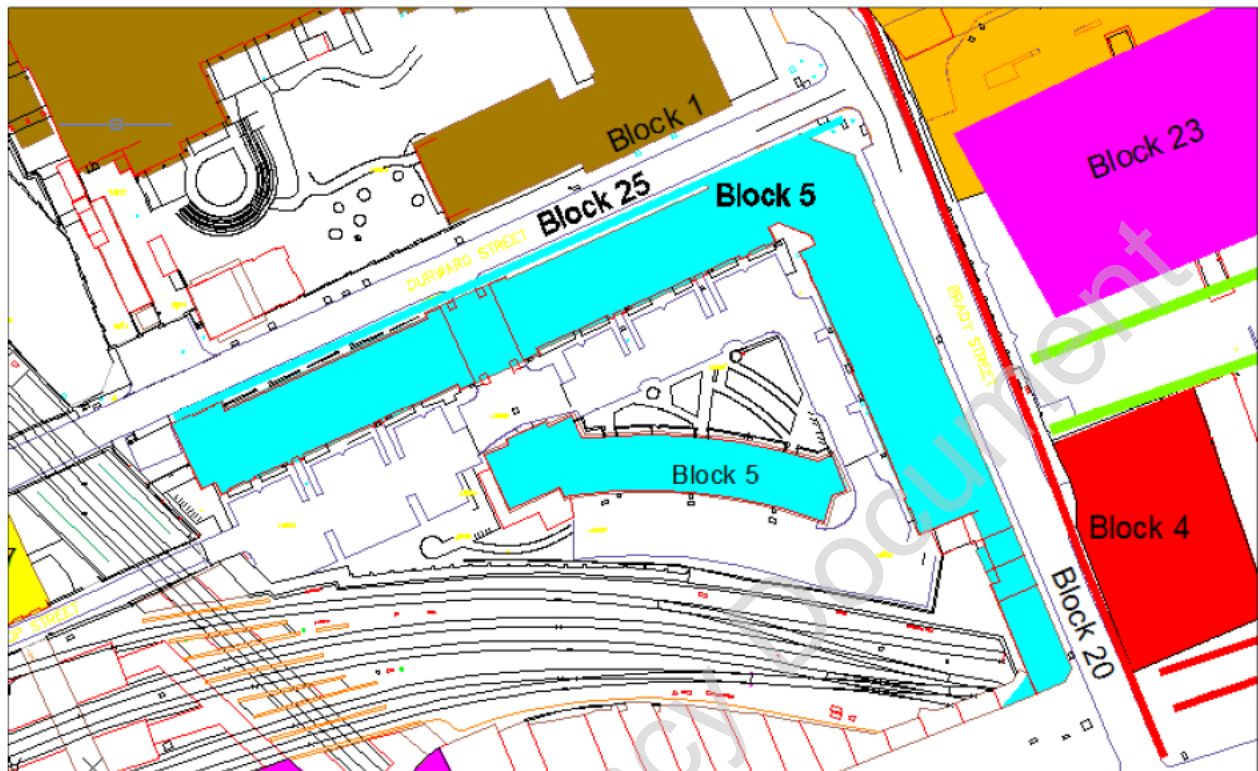
Please see Monitoring Sensors Settlement Status Table for details about the Supplementary evidence shown below.

Monitoring Points LP50103, LP50108 and LP50106



## 8.2. Block 05 Data Analysis

### 8.2.1 Block 05 Location Plan – (Kempton Court)



### 8.2.2 Block 05 Monitoring Sensors

The monitoring sensors within Whitechapel Block 05 (Kempton Court) consists of automated and manual monitoring. The automated monitoring included geodetic targets attached to the external facades of both the main exterior building and the inner courtyard building.

All automated monitoring has been decommissioned within Whitechapel Block 05.

The manual monitoring included in Block 05 consists of BRE's installed into the external façades of the both buildings and road studs in the hard standings around the area. All sensors were installed to measure vertical displacements during the construction works.

The BRE's are configured into 10 sections and the road studs are configured into 8 sections. BRE sections 1, 2, 7, 8 and LP sections 1, 3, 5, 6 have been agreed to cease monitoring in the previous ERP meetings, graphs for all these sections can be viewed in Appendix E.

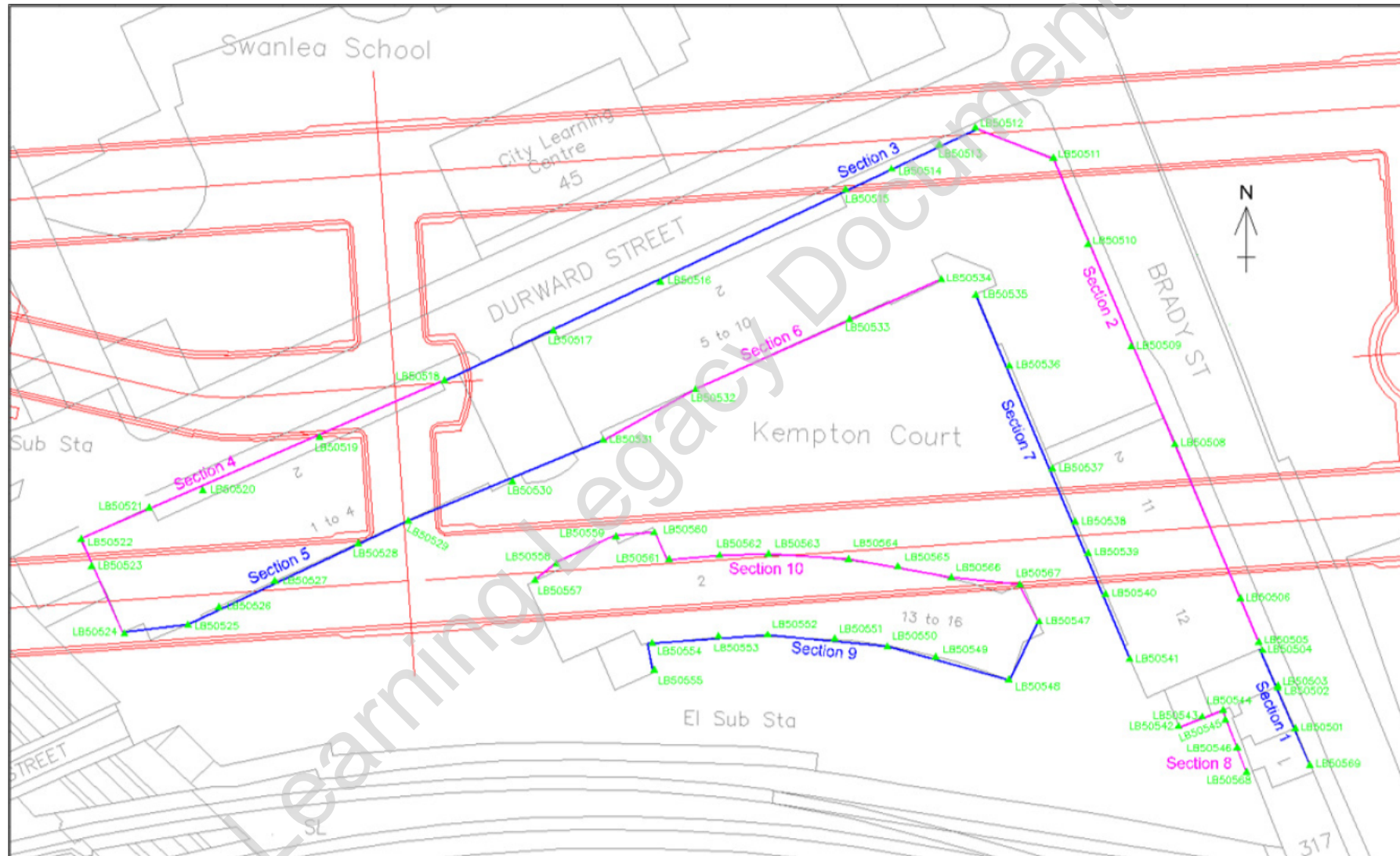
BRE sections 3, 4, 5, 6, 9, 10 and LP sections 2, 4, 7, 8 were reviewed within revision 4 and proposals were made to decommission all sensors from these sections that met the CRL specification of 2mm/annum. BBMV have ceased monitoring on all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 05 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

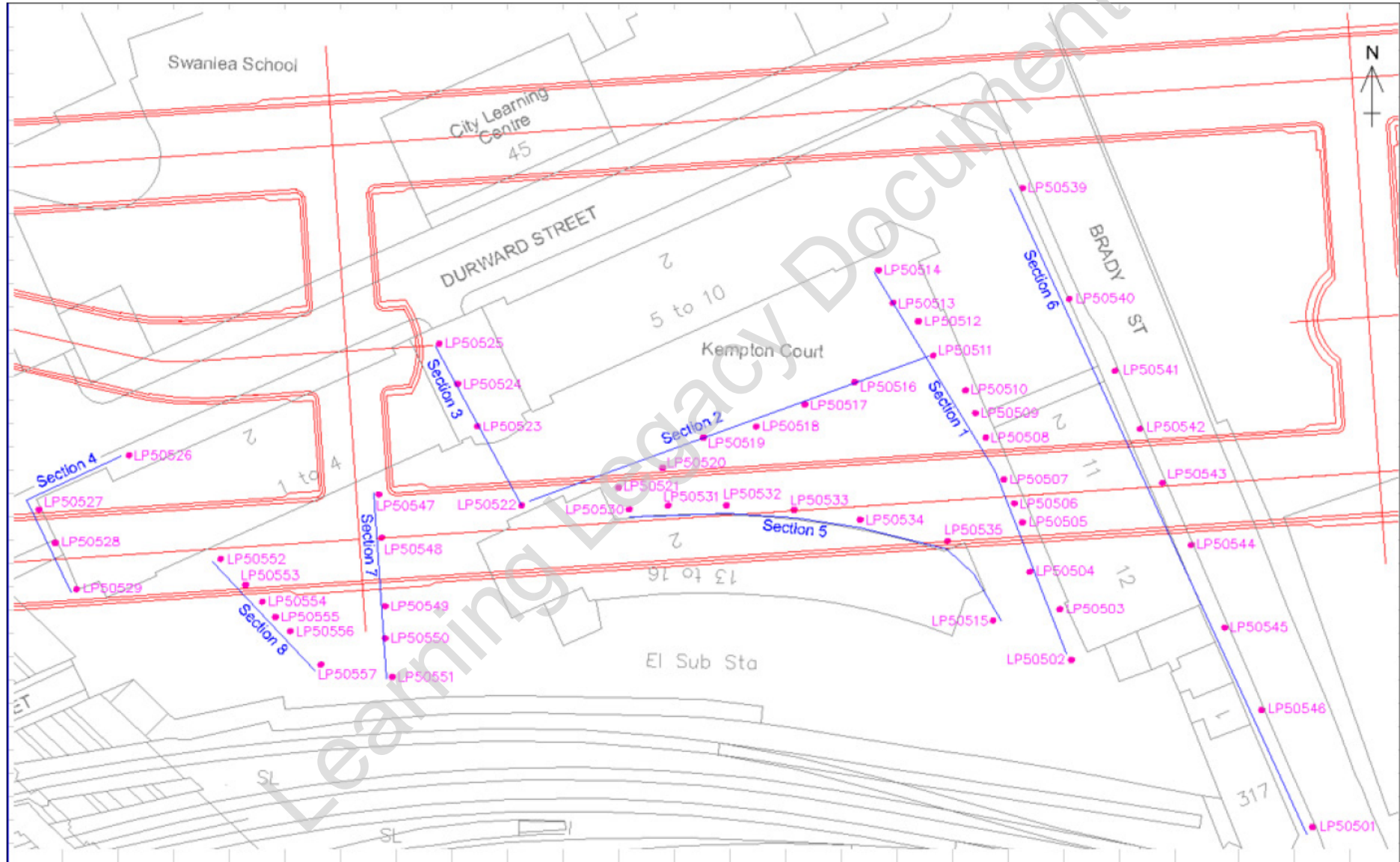




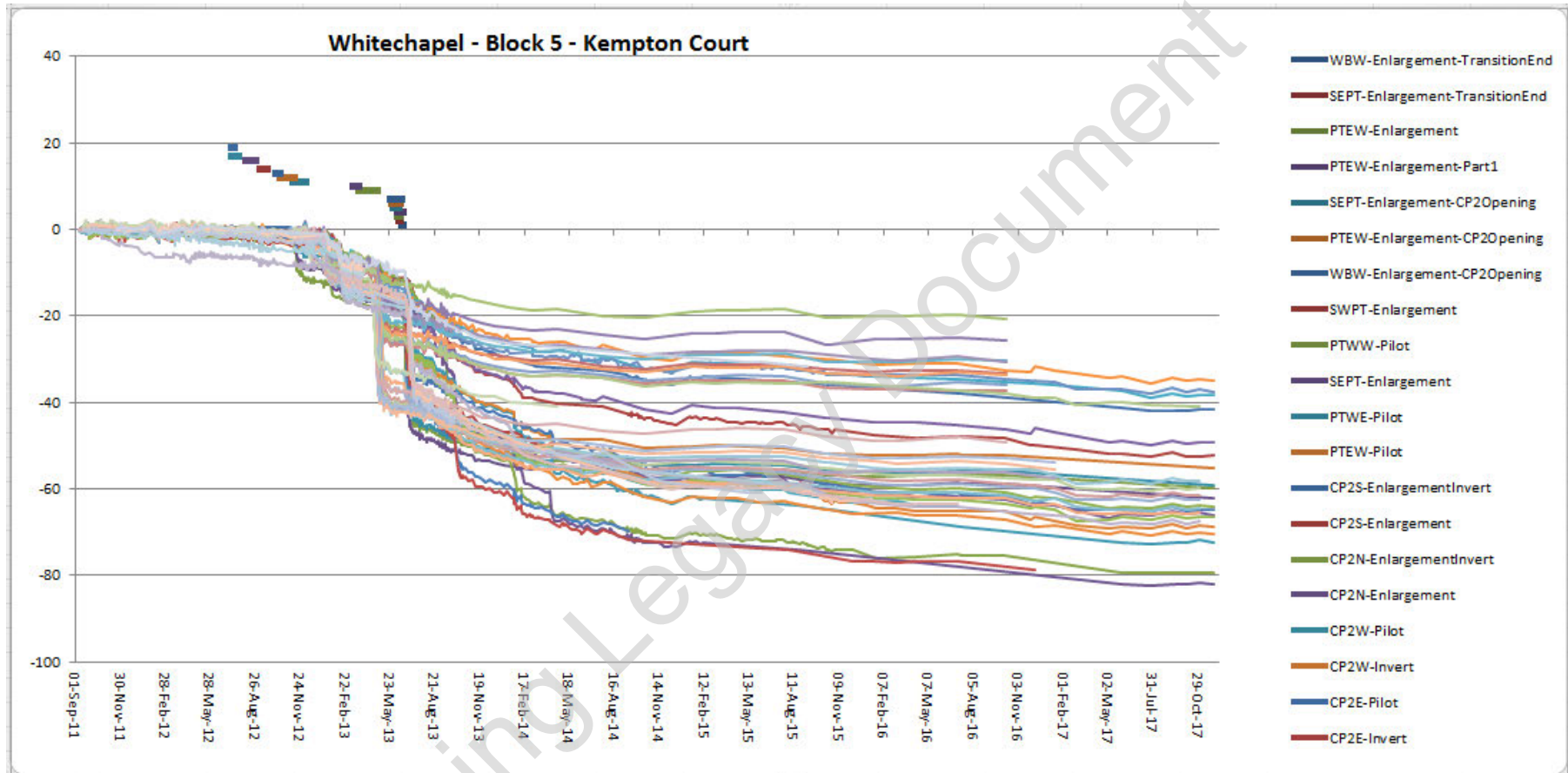
### 8.2.4 Block 05 - Section Configuration of the BRE Locations for Kempton Court



### 8.2.5 Block 05 - Section Configuration of the Road Stud Locations for Kempton Court



8.2.6 Block 05 – Outstanding Monitoring Sensors displayed with the Construction Activities



## 8.2.7 Block 05 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 05

30/11/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status	
C510-LB50512	Block 505	550503	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastStub_Adv-9	03/02/2014	30/11/2017	#N/A	#N/A	-2.7mm/yr	Infrequent monitoring due to poor access. Trends are similar to LB 50517 & 16 <3mm over 2 years	Agreed	
C510-LB50513	Block 505	550503	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastStub_Adv-9	03/02/2014	30/11/2017	#N/A	#N/A	-2.9mm/yr		Agreed	
C510-LB50514	Block 505	550503	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastStub_Adv-9	03/02/2014	30/11/2017	#N/A	#N/A	-2.7mm/yr		Agreed	
C510-LB50515	Block 505	550503	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-8	16/02/2014	30/11/2017	#N/A	#N/A	-2.6mm/yr	Stable 6 month trend	Agreed	
C510-LB50516	Block 505	550503	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.5mm/yr	-0.5mm/yr	-2.8mm/yr		Proposed	
C510-LB50517	Block 505	550503	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.1mm/yr	-0.5mm/yr	-2.6mm/yr		Proposed	
C510-LB50518	Block 505	550504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.2mm/yr	0.2mm/yr	-3.5mm/yr		Proposed	
C510-LB50519	Block 505	550504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	2.1mm/yr	0.7mm/yr	-3.0mm/yr		Proposed	
C510-LB50520	Block 505	550504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	2.2mm/yr	0.8mm/yr	-2.6mm/yr		Proposed	
C510-LB50521	Block 505	550504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.7mm/yr	0.5mm/yr	-1.6mm/yr		Proposed	
C510-LB50522	Block 505	550504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.4mm/yr	0.1mm/yr	-1.5mm/yr		2mm per annum specification met	Proposed
C510-LB50523	Block 505	550504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	09/11/2015	#N/A	#N/A	#N/A		Covered with construction work by C512	Destroyed
C510-LB50524	Block 505	550505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.4mm/yr	0.0mm/yr	-2.2mm/yr		Stable 9 month trend	Proposed
C510-LB50525	Block 505	550505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.5mm/yr	0.4mm/yr	-2.2mm/yr	Proposed		
C510-LB50526	Block 505	550505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	09/07/2016	#N/A	#N/A	#N/A	Sensor covered - Supplementary evidence supplied	Destroyed	
C510-LB50527	Block 505	550506	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.5mm/yr	-0.8mm/yr	-2.1mm/yr	Stable 9 month trend	Proposed	
C510-LB50528	Block 505	550505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	15/09/2014	#N/A	#N/A	#N/A	Access blocked - Supplementary evidence supplied	Destroyed	
C510-LB50529	Block 505	550505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	06/12/2016	#N/A	#N/A	#N/A		Destroyed	
C510-LB50530	Block 505	550505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	1.7mm/yr	0.5mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed	
C510-LB50531	Block 505	550506	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.8mm/yr	-0.5mm/yr	-3.2mm/yr	Stable 6 month trend	Proposed	
C510-LB50532	Block 505	550506	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.8mm/yr	-1.3mm/yr	-3.0mm/yr		Proposed	
C510-LB50533	Block 505	550506	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	1.2mm/yr	-1.2mm/yr	-2.8mm/yr		Proposed	
C510-LB50534	Block 505	550506	External	Manual	LB	BRE	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	30/11/2017	1.0mm/yr	-0.4mm/yr	-2.3mm/yr	Stable 9 month trend	Proposed	
C510-LB50547	Block 505	550509	External	Manual	LB	BRE	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	10/10/2016	#N/A	-1.0mm/yr	-1.3mm/yr	2mm per annum specification met	Agreed	
C510-LB50548	Block 505	550509	External	Manual	LB	BRE	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	10/10/2016	#N/A	-1.3mm/yr	-0.9mm/yr		Agreed	
C510-LB50549	Block 505	550509	External	Manual	LB	BRE	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	10/10/2016	#N/A	-0.6mm/yr	-0.1mm/yr		Agreed	
C510-LB50550	Block 505	550509	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastStub_Adv-9	03/02/2014	10/10/2016	#N/A	0.4mm/yr	-0.6mm/yr	2mm per annum specification met	Agreed	
C510-LB50551	Block 505	550509	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-6	16/02/2014	10/10/2016	#N/A	0.6mm/yr	-1.0mm/yr		Agreed	
C510-LB50552	Block 505	550509	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-18	10/04/2014	10/10/2016	#N/A	0.4mm/yr	-0.9mm/yr		Agreed	
C510-LB50553	Block 505	550509	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-27	11/04/2014	10/10/2016	#N/A	-0.5mm/yr	-1.5mm/yr	Stable 9 month trend	Agreed	
C510-LB50554	Block 505	550509	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	-1.6mm/yr	-1.5mm/yr	-2.4mm/yr		Proposed	
C510-LB50555	Block 505	550509	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	10/10/2016	#N/A	-0.4mm/yr	-1.6mm/yr		2mm per annum specification met	Agreed
C510-LB50557	Block 505	550510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	0.8mm/yr	0.6mm/yr	-2.8mm/yr	Stable 9 month trend	Proposed	
C510-LB50558	Block 505	550510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	0.0mm/yr	0.0mm/yr	-2.9mm/yr		Proposed	
C510-LB50559	Block 505	550510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	-0.1mm/yr	0.2mm/yr	-2.7mm/yr		Proposed	
C510-LB50560	Block 505	550510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	-0.4mm/yr	0.2mm/yr	-2.4mm/yr		Proposed	
C510-LB50561	Block 505	550510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	-0.2mm/yr	0.3mm/yr	-2.6mm/yr		Proposed	
C510-LB50562	Block 505	550510	External	Manual	LB	BRE	WHI_EPW1_Enlargement-0_Adv-33	13/04/2014	16/01/2017	#N/A	-2.8mm/yr	-1.0mm/yr	2mm per annum specification met	Agreed	
C510-LB50563	Block 505	550510	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-23	11/04/2014	02/11/2017	0.0mm/yr	0.4mm/yr	-2.3mm/yr	Stable 9 month trend	Proposed	
C510-LB50564	Block 505	550510	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-9	16/02/2014	16/01/2017	#N/A	-3.4mm/yr	-1.4mm/yr	2mm per annum specification met	Agreed	
C510-LB50565	Block 505	550510	External	Manual	LB	BRE	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	16/01/2017	#N/A	-3.0mm/yr	-1.1mm/yr		Agreed	
C510-LB50566	Block 505	550510	External	Manual	LB	BRE	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	10/10/2016	#N/A	-0.6mm/yr	-1.7mm/yr		Agreed	
C510-LB50567	Block 505	550510	External	Manual	LB	BRE	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	22/04/2014	#N/A	#N/A	#N/A	Access blocked - Supplementary evidence supplied	Destroyed	

## WHI Close Out Report - Block 05

30/11/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

## AVERAGE SETTLEMENT TREND

ID	Block	Instrument	Access	Method	Point	Location	Description	Start Date	End Date	2015	2016	2017	Notes	Status
C510-LP50516	Block 505	550502	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50517	Block 505	550502	External	Manual	LP	Road Stud	WHI_EPW1E51_Enlargement-West_Adv-11	16/02/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50518	Block 505	550502	External	Manual	LP	Road Stud	WHI_EPW1E51_Enlargement-West_Adv-18	10/04/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50519	Block 505	550502	External	Manual	LP	Road Stud	WHI_EPW1E51_Enlargement-West_Adv-29	12/04/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50520	Block 505	550502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50521	Block 505	550502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50522	Block 505	550502;550503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50523	Block 505	550503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50524	Block 505	550503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50525	Block 505	550503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Complete
C510-LP50526	Block 505	550504	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	0.5mm/yr	0.6mm/yr	-2.6mm/yr	Stable 9 month trend	Proposed
C510-LP50527	Block 505	550504	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	14/01/2016	#N/A	#N/A	#N/A	Supplementary evidence supplied	Destroyed
C510-LP50528	Block 505	550504	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	14/01/2016	#N/A	#N/A	#N/A		Destroyed
C510-LP50529	Block 505	550504	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	08/06/2015	#N/A	#N/A	#N/A		Destroyed
C510-LP50552	Block 505	550502;550508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	05/07/2016	#N/A	#N/A	#N/A		Destroyed
C510-LP50553	Block 505	550508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/10/2012	#N/A	#N/A	#N/A		Destroyed
C510-LP50554	Block 505	550508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/03/2013	#N/A	#N/A	#N/A		Destroyed
C510-LP50555	Block 505	550508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/04/2013	#N/A	#N/A	#N/A		Destroyed
C510-LP50556	Block 505	550508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/04/2013	#N/A	#N/A	#N/A		Destroyed
C510-LP50557	Block 505	550508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	08/09/2015	#N/A	#N/A	#N/A		Destroyed

### 8.2.8 Supplementary Evidence

Please see Monitoring Sensors Settlement Status Table for details about the Supplementary evidence shown below.

Monitoring Points LB50526, LB50527, LB50529 and LB50567.



Monitoring Points LP50527-29 and LP50552-57.

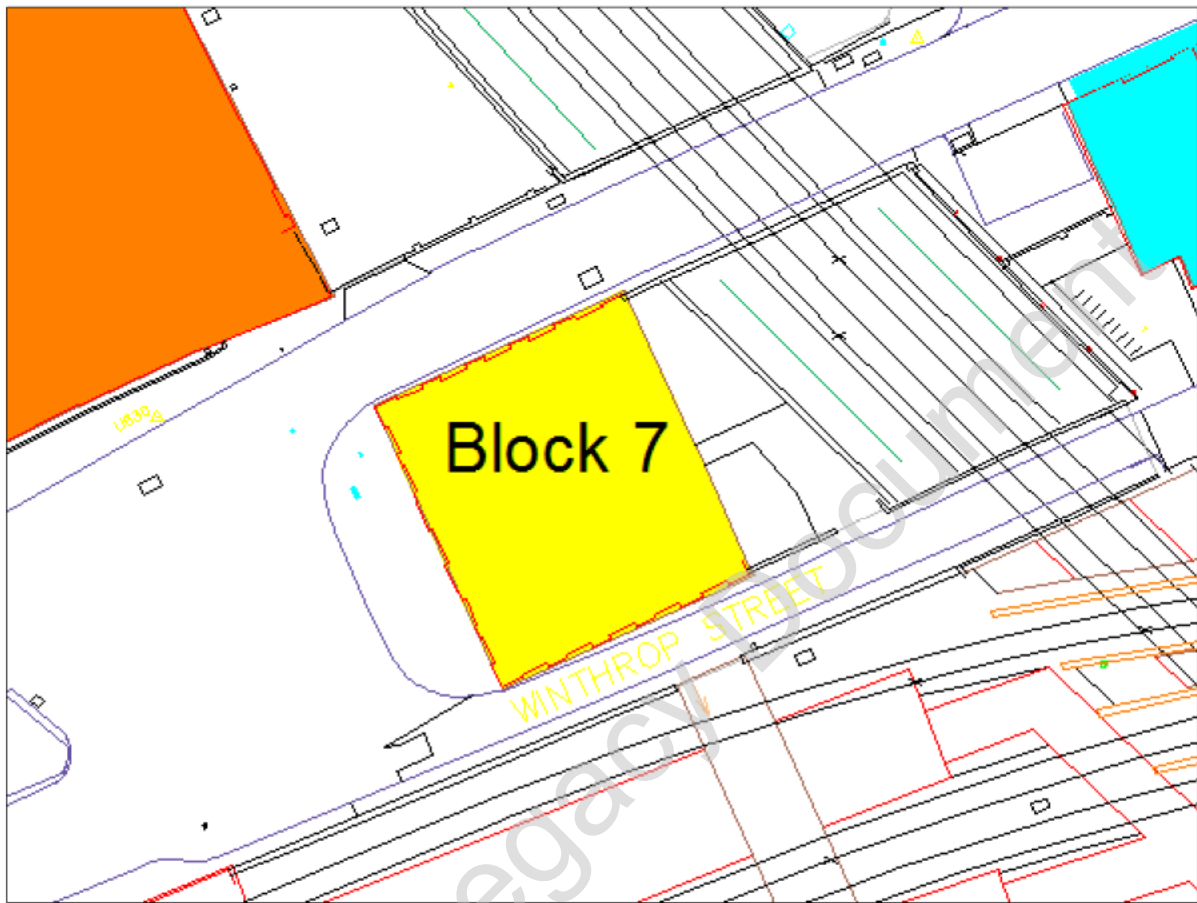


Learning Lessons Document



### 8.3. Block 07 Data Analysis

#### 8.3.1 Block 07 Location Plan



#### 8.3.2 Block 07 Monitoring Sensors

The monitoring sensors within Whitechapel Block 07 Trinity Hall consists of automated and manual monitoring. The automated monitoring included geodetic targets attached to the external facades building.

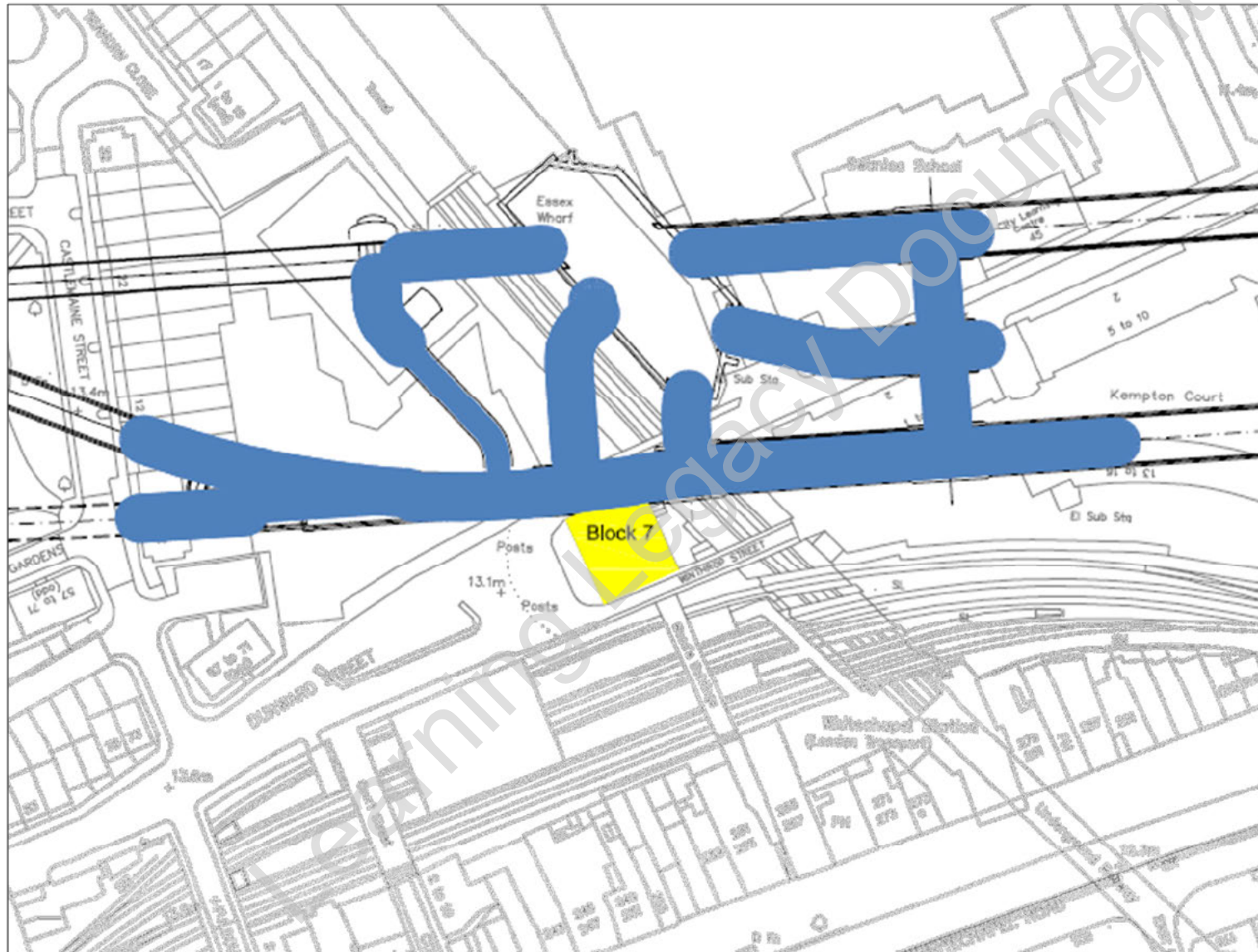
All automated monitoring has been decommissioned within Whitechapel Block 07.

The manual monitoring included in Block 07 consists of 4 sections of BRE's installed around each façade. Road studs installed in the surrounding hard standings of the building consisted also of 4 sections. The manual monitoring sensors were installed to measure vertical displacements during the construction works.

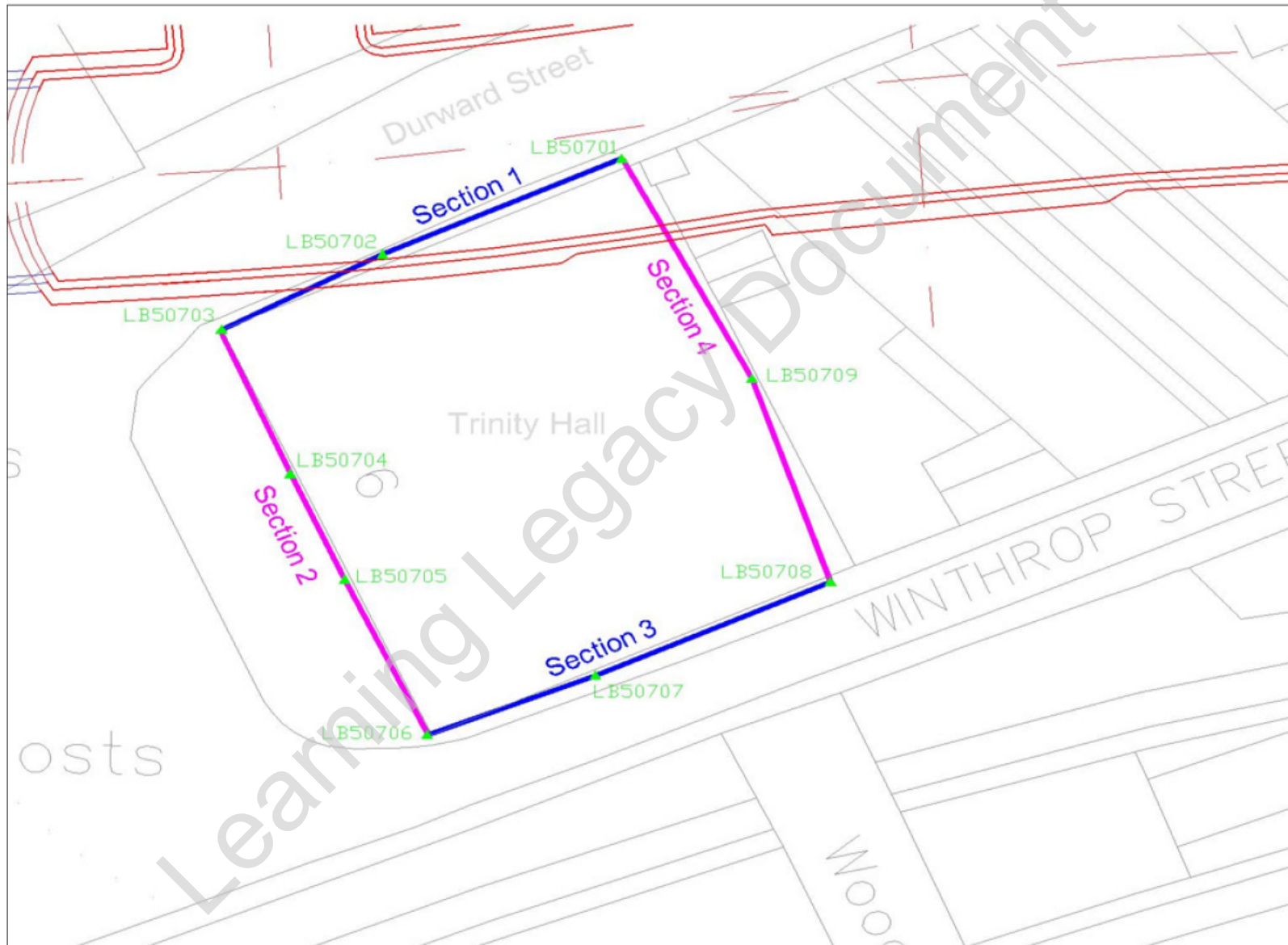
The BRE's and road studs for all sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 07 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

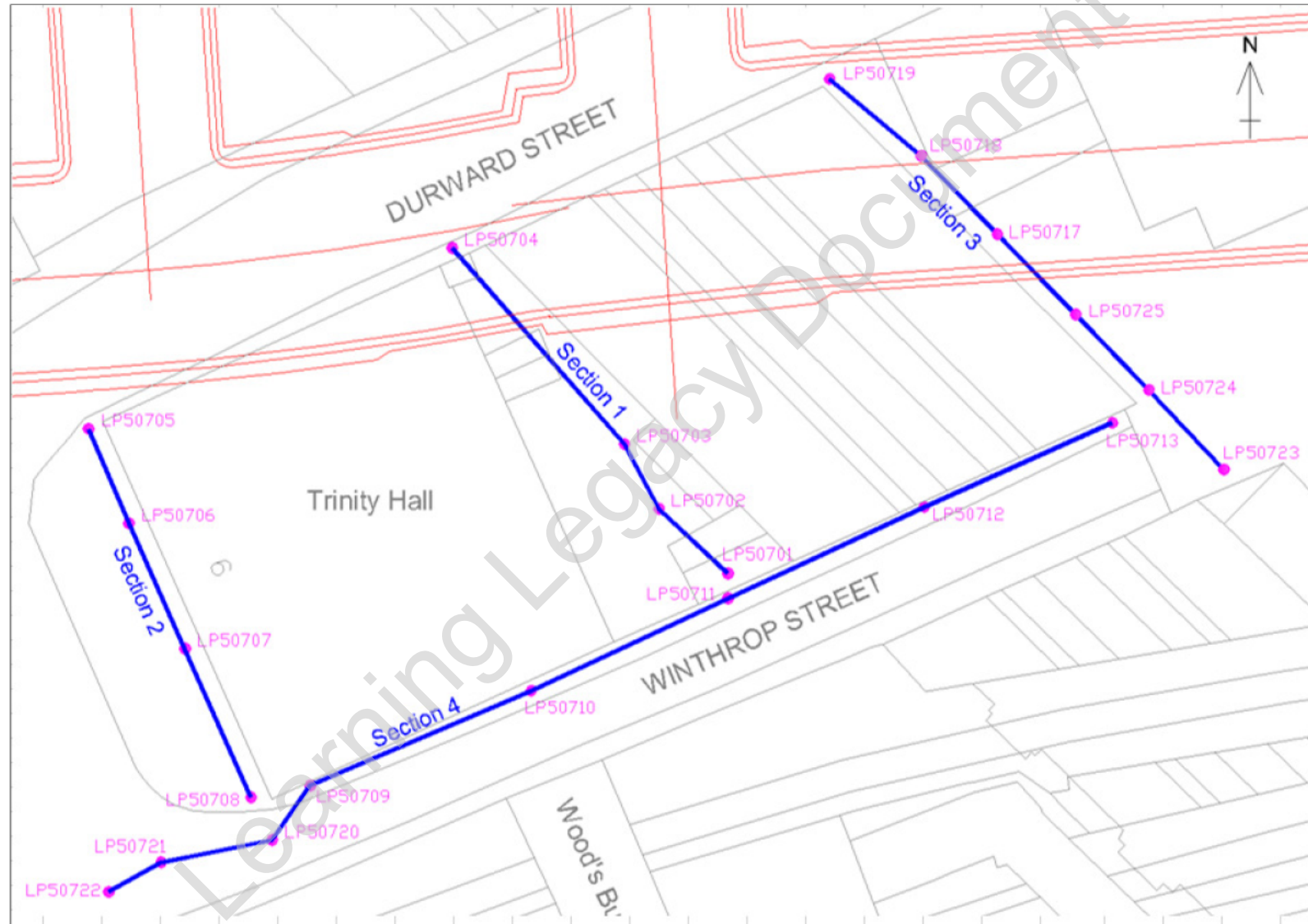
8.3.3 Block 07 - Plot to show Whitechapel Block 7 and the SCL Tunnels within the a 60m ZOI



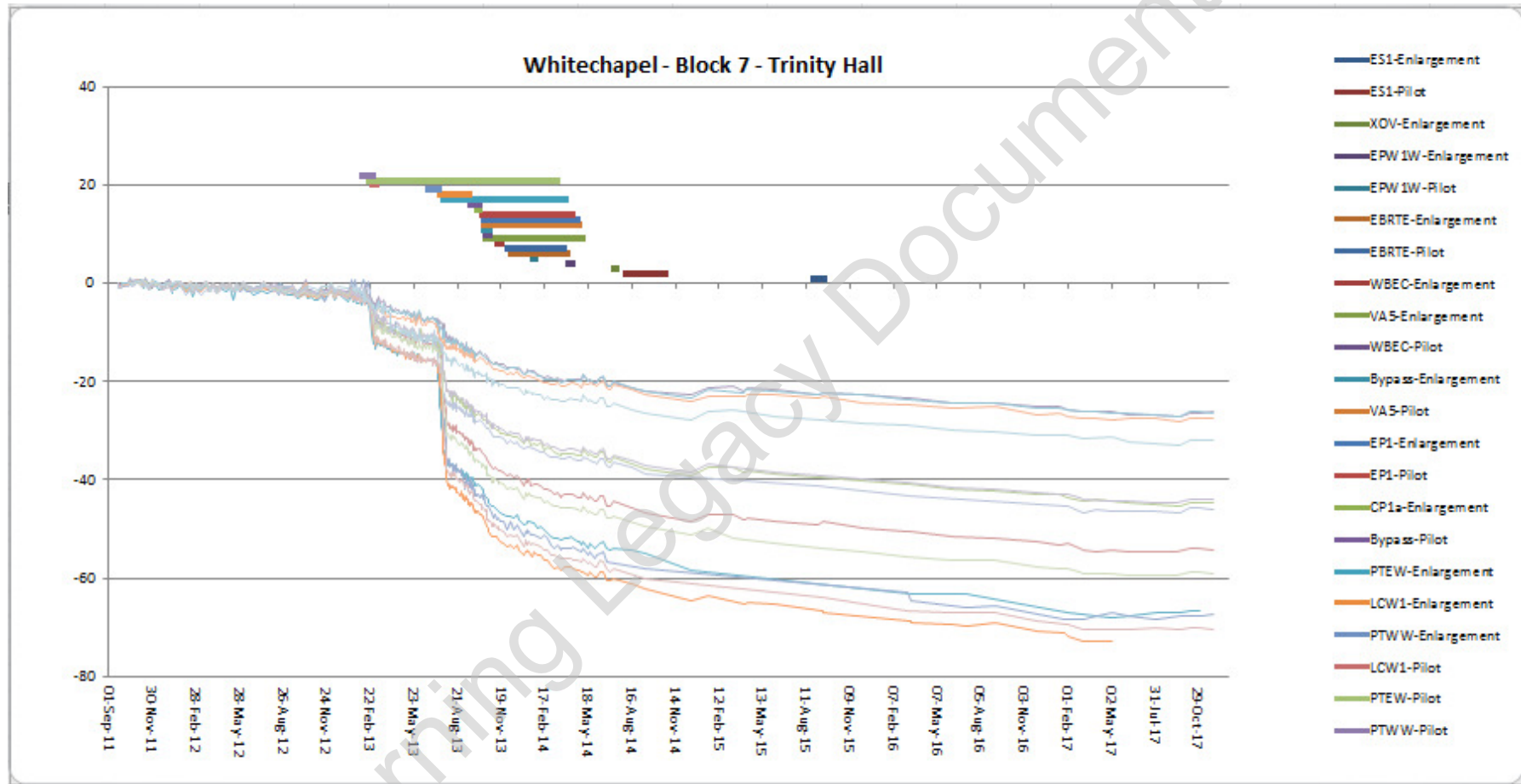
Block 07 - Section Configuration of the BRE Locations for Trinity Hall



### 8.3.4 Block 07 - Section Configuration of the Road Stud Locations for Trinity Hall



8.3.5 Block 07 – Outstanding Monitoring Sensors displayed with the Construction Activities



8.3.6 Block 07 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 07										30/11/2017			< 2.0 mm	< 3.5 mm	> 3.5 mm		
										GREEN	AMBER	RED					
										AVERAGE SETTLEMENT TREND							
C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status			
C510-LB50701	Block 507	S50701,S50704	External	Manual	LB	BRE	WHL_BYPS_Full-0_Adv-10	27/01/2016	02/11/2017	2.0mm/yr	2.5mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed			
C510-LB50702	Block 507	S50701	External	Manual	LB	BRE	WHL_BYPS_Full-0_Adv-10	27/01/2016	03/05/2017	#N/A	#N/A	#N/A	Broken plastic screw blocks the BRE hole/Supplementary evidence supplied	Destroyed			
C510-LB50703	Block 507	S50701,S50702	External	Manual	LB	BRE	WHL_BYPS_Full-0_Adv-10	27/01/2016	30/11/2017	1.0mm/yr	-0.2mm/yr	-0.6mm/yr	2mm per annum specification met	Proposed			
C510-LB50704	Block 507	S50702	External	Manual	LB	BRE	WHL_BYPS_Full-0_Adv-10	27/01/2016	30/11/2017	1.5mm/yr	1.0mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed			
C510-LB50705	Block 507	S50702	External	Manual	LB	BRE	WHL_ES1_Downhill-0_Adv-17	02/10/2015	30/11/2017	0.9mm/yr	0.0mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed			
C510-LB50706	Block 507	S50702,S50703	External	Manual	LB	BRE	WHL_ES1_Pilot-0_Adv-19	16/10/2014	30/11/2017	1.3mm/yr	0.2mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed			
C510-LB50707	Block 507	S50703	External	Manual	LB	BRE	WHL_ES1_Downhill-0_Adv-23	10/10/2015	30/11/2017	0.9mm/yr	0.6mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed			
C510-LB50708	Block 507	S50703,S50704	External	Manual	LB	BRE	WHL_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.6mm/yr	0.7mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed			
C510-LB50709	Block 507	S50704	External	Manual	LB	BRE	WHL_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	1.4mm/yr	1.2mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed			
C510-LP50705	Block 507	S50702	External	Manual	LP	Road Stud	WHL_BYPS_Full-0_Adv-10	27/01/2016	30/11/2017	0.2mm/yr	0.5mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed			
C510-LP50706	Block 507	S50702	External	Manual	LP	Road Stud	WHL_BYPS_Full-0_Adv-10	27/01/2016	30/11/2017	1.1mm/yr	0.7mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed			
C510-LP50707	Block 507	S50702	External	Manual	LP	Road Stud	WHL_ES1_Downhill-0_Adv-17	02/10/2015	30/11/2017	1.3mm/yr	0.7mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed			
C510-LP50708	Block 507	S50702	External	Manual	LP	Road Stud	WHL_ES1_Pilot-0_Adv-19	16/10/2014	30/11/2017	1.1mm/yr	-0.4mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed			

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### 8.3.7 Supplementary Evidence

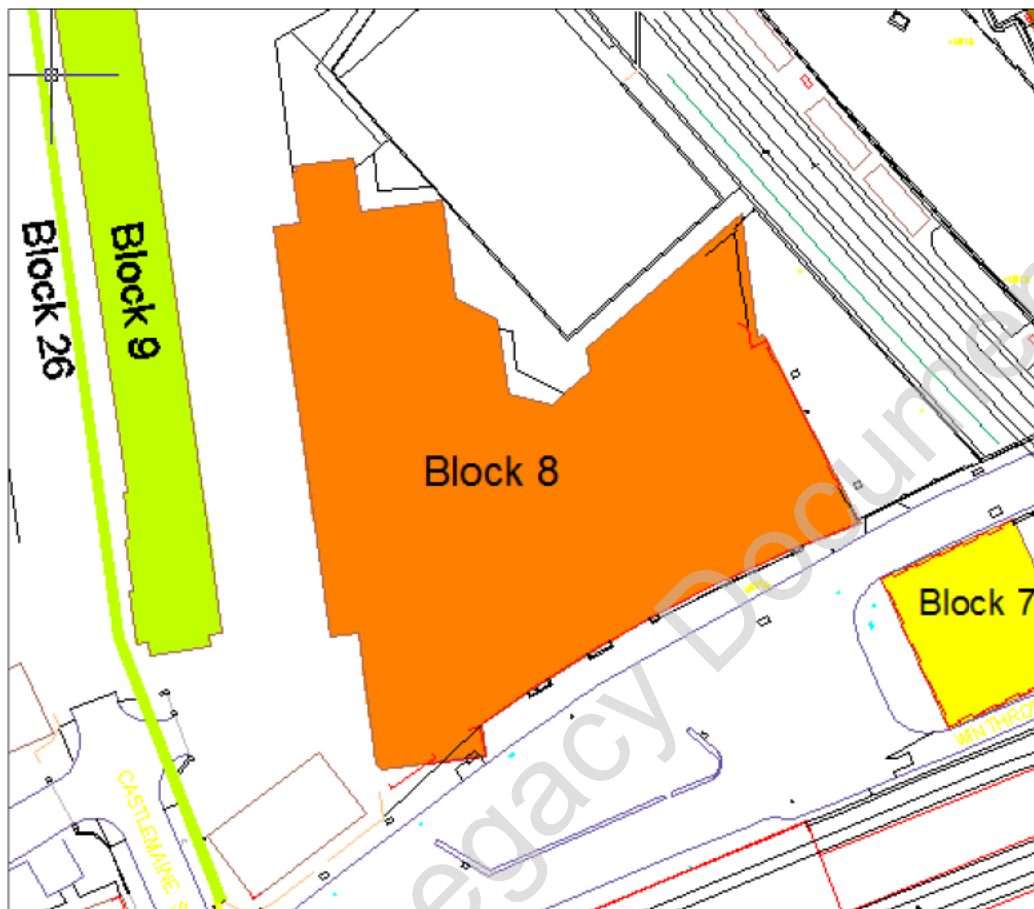
Please see Monitoring Sensors Settlement Status Table for details about the Supplementary evidence shown below.

Monitoring Point LB50702.



## 8.4. Block 08 Data Analysis

### 8.4.1 Block 08 Location Plan



### 8.4.2 Block 08 Monitoring Sensors

The monitoring sensors within Whitechapel Block 08 Durward Street Sports Centre consists of automated and manual monitoring. The automated monitoring included geodetic targets attached to the external facades building and internal crack monitoring gauges.

All automated monitoring has been decommissioned within Whitechapel Block 08 with exception of the internal crack meters which will remain until advised.

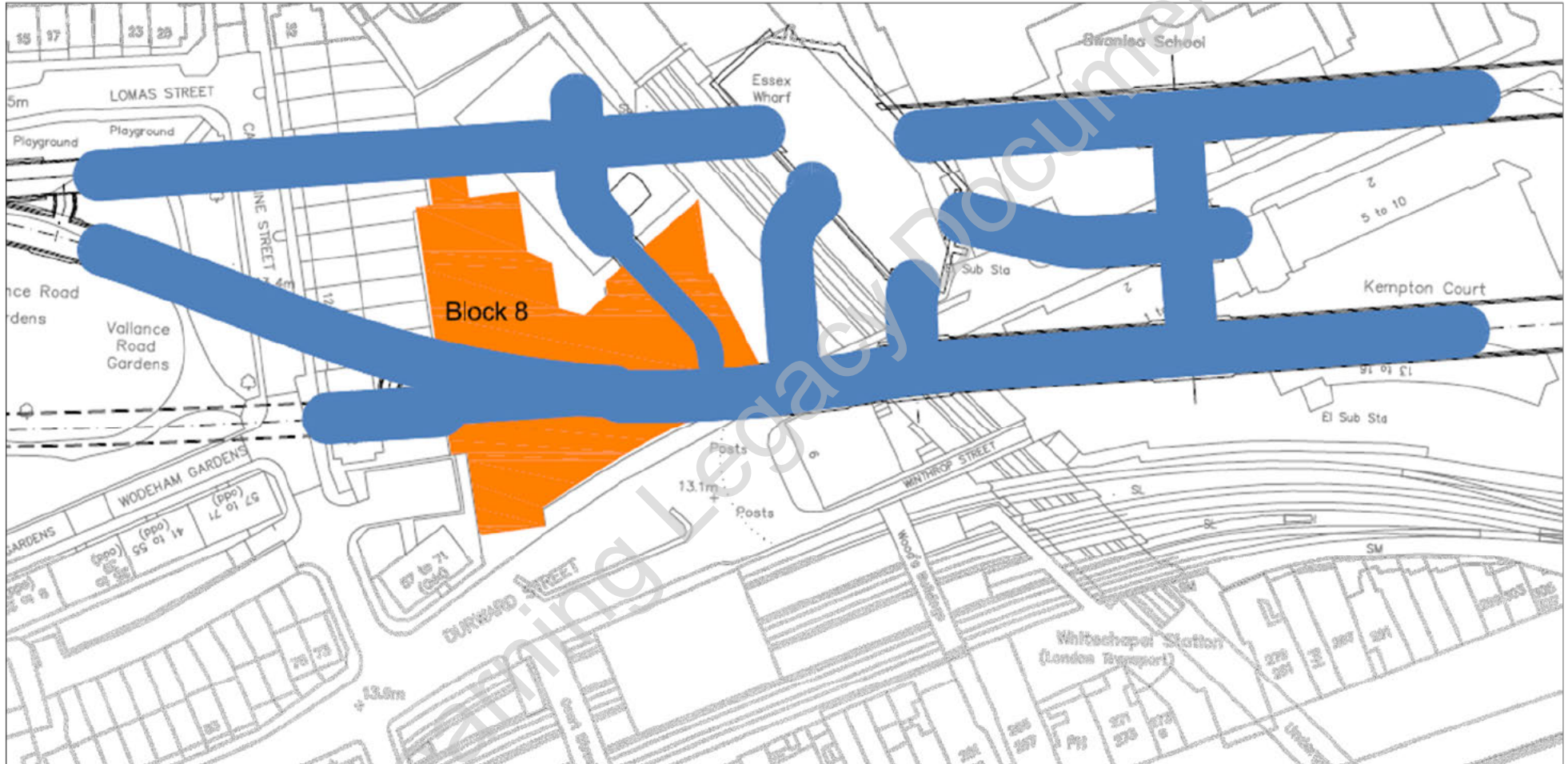
The manual monitoring included in Block 08 consists of 5 sections of BRE's installed around the external façades. The road studs installed in the surrounding hard standings of the building consisted also of 8 sections. There were also 5 sections of retro targets installed internally to measure the interior walls of the structure. The manual monitoring sensors were installed to measure vertical displacements during the construction works.

The BRE's, road studs and retro targets for all sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 08 is referenced in appendix E.

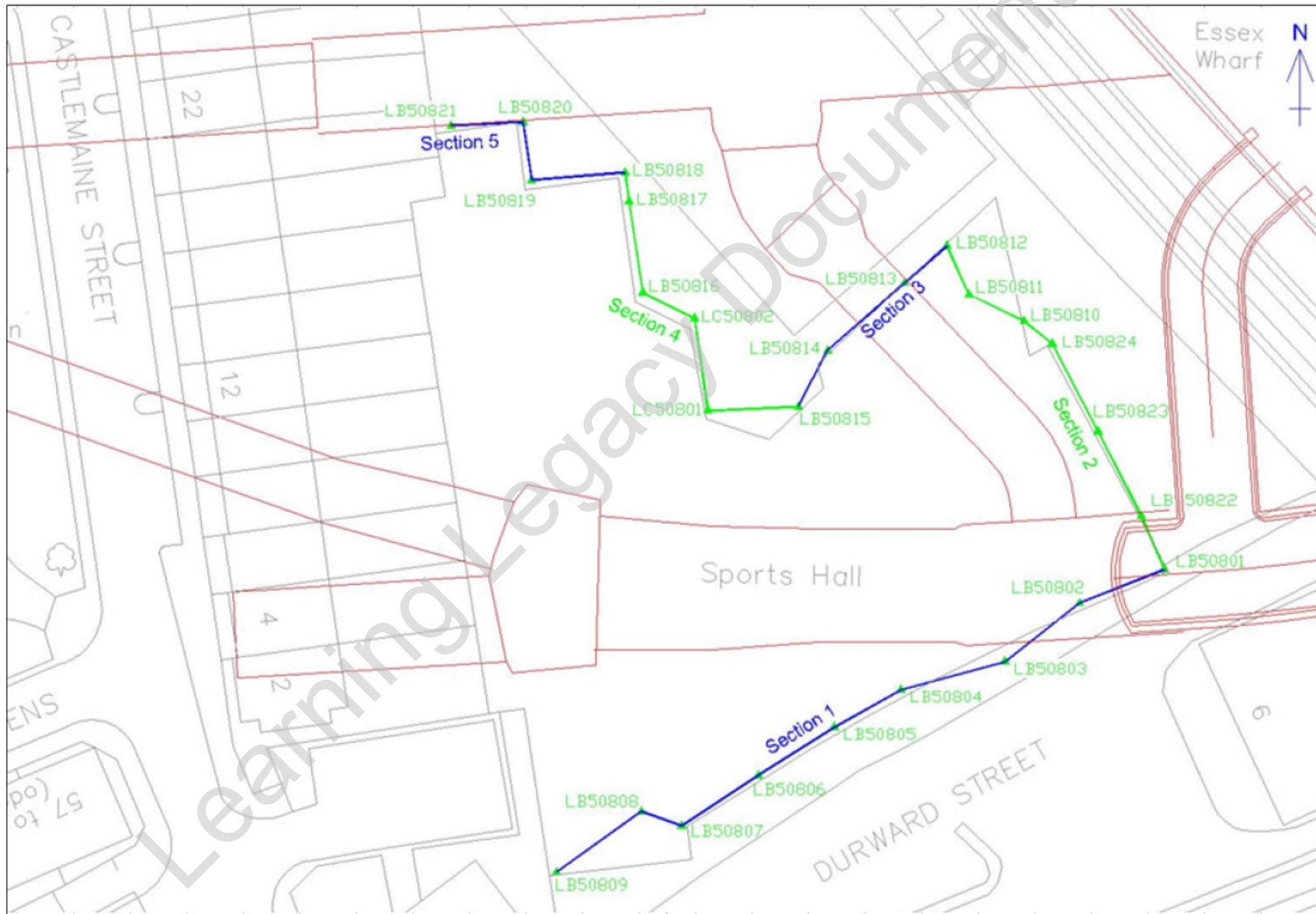
The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.



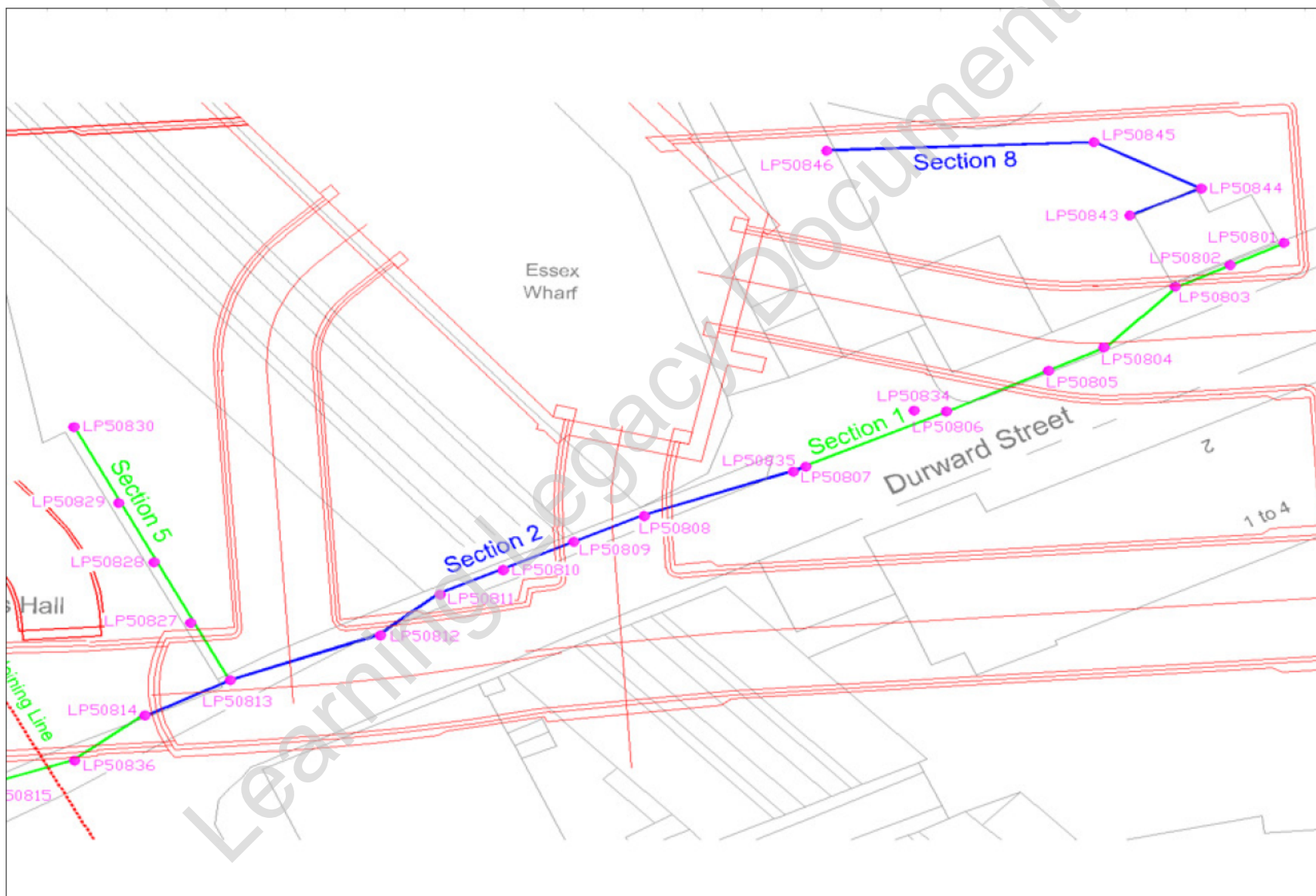
8.4.3 Block 08 - Plot to show Whitechapel Block 8 and the SCL Tunnels within the a 60m ZOI



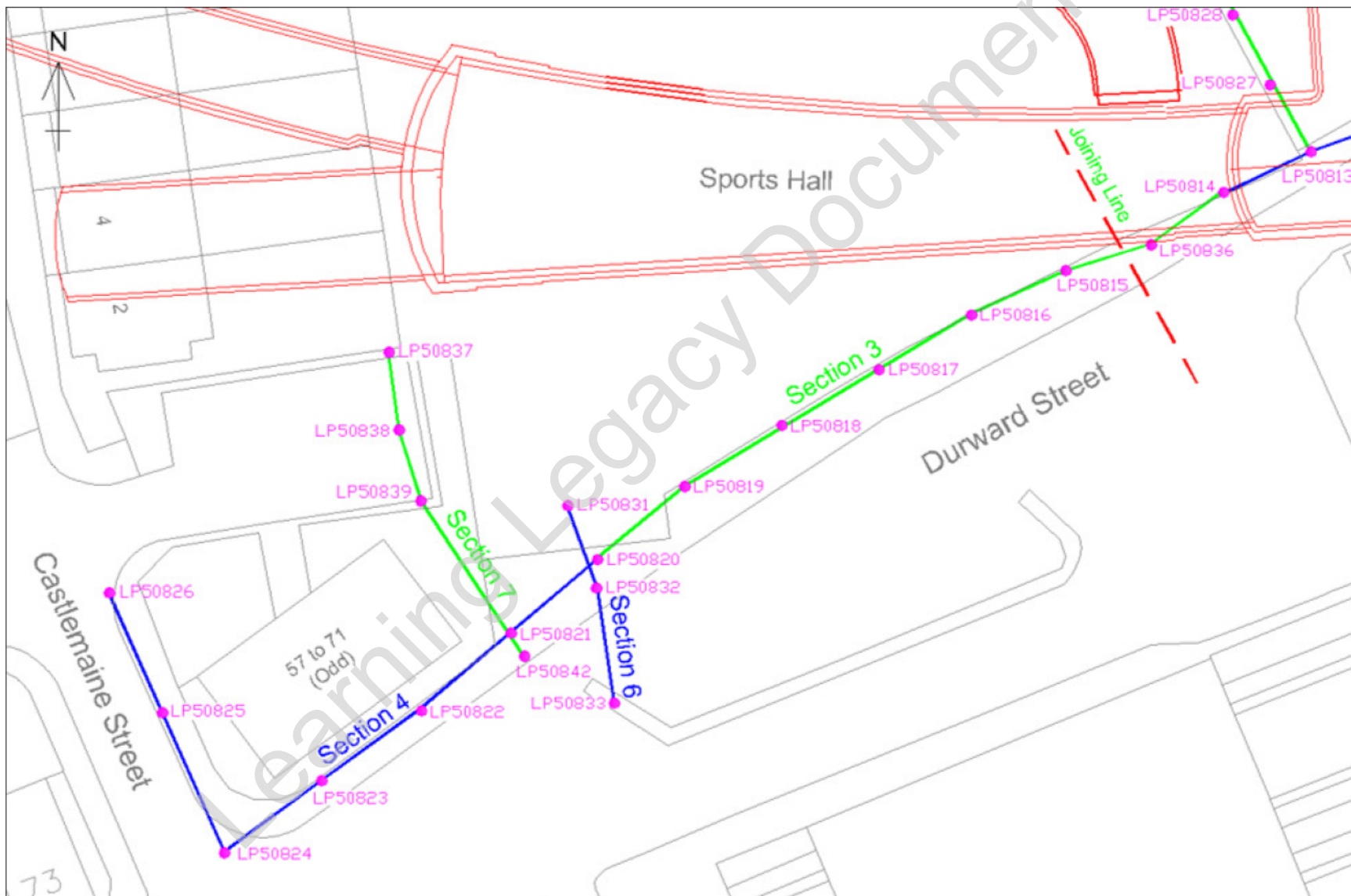
### 8.4.4 Block 08 - Section Configuration of the BRE Locations for Durward Street Sports Centre



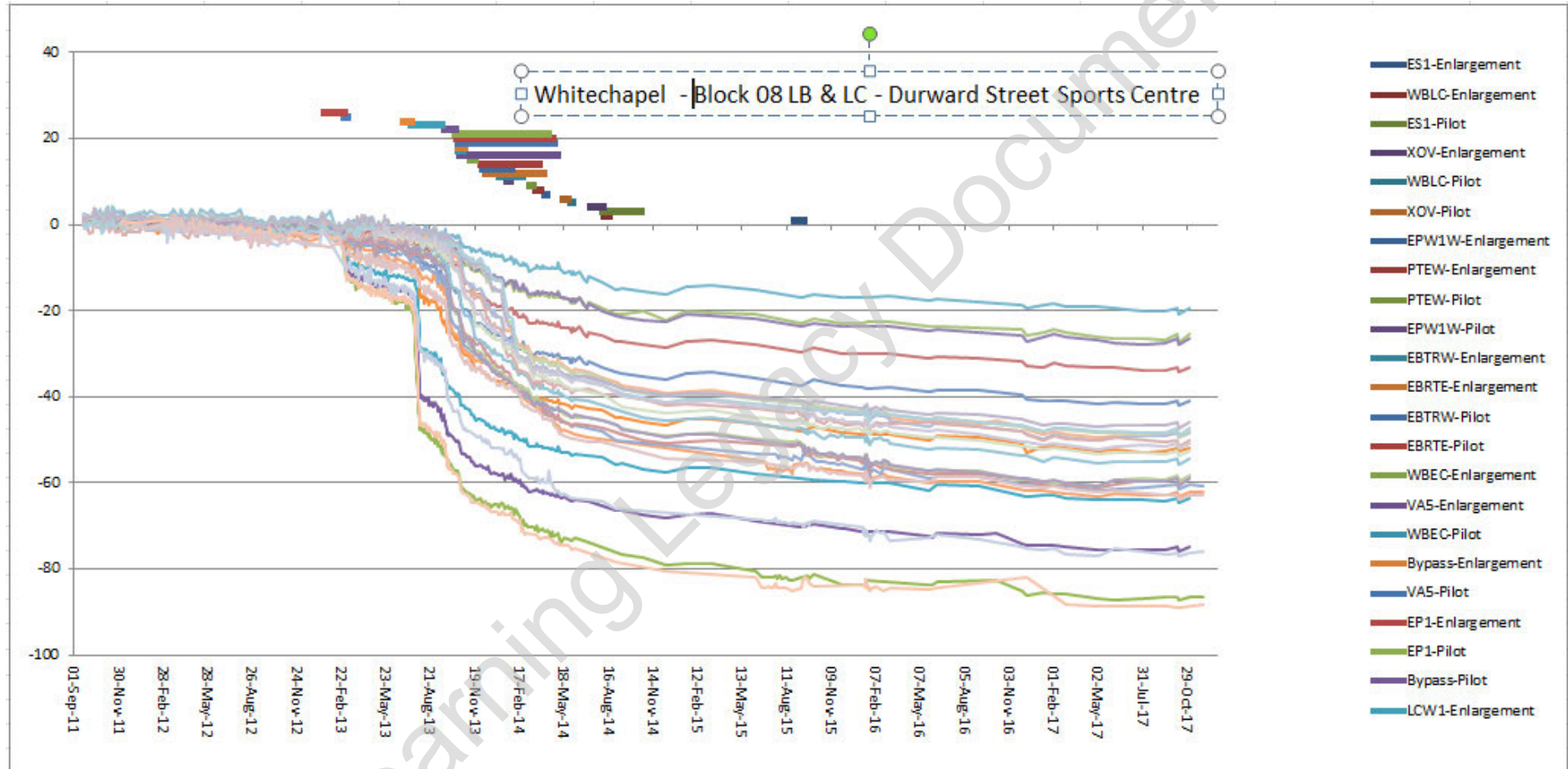
### 8.4.5 Block 08 - Section Configuration of the Road Stud Locations for Durward Street Sports Centre



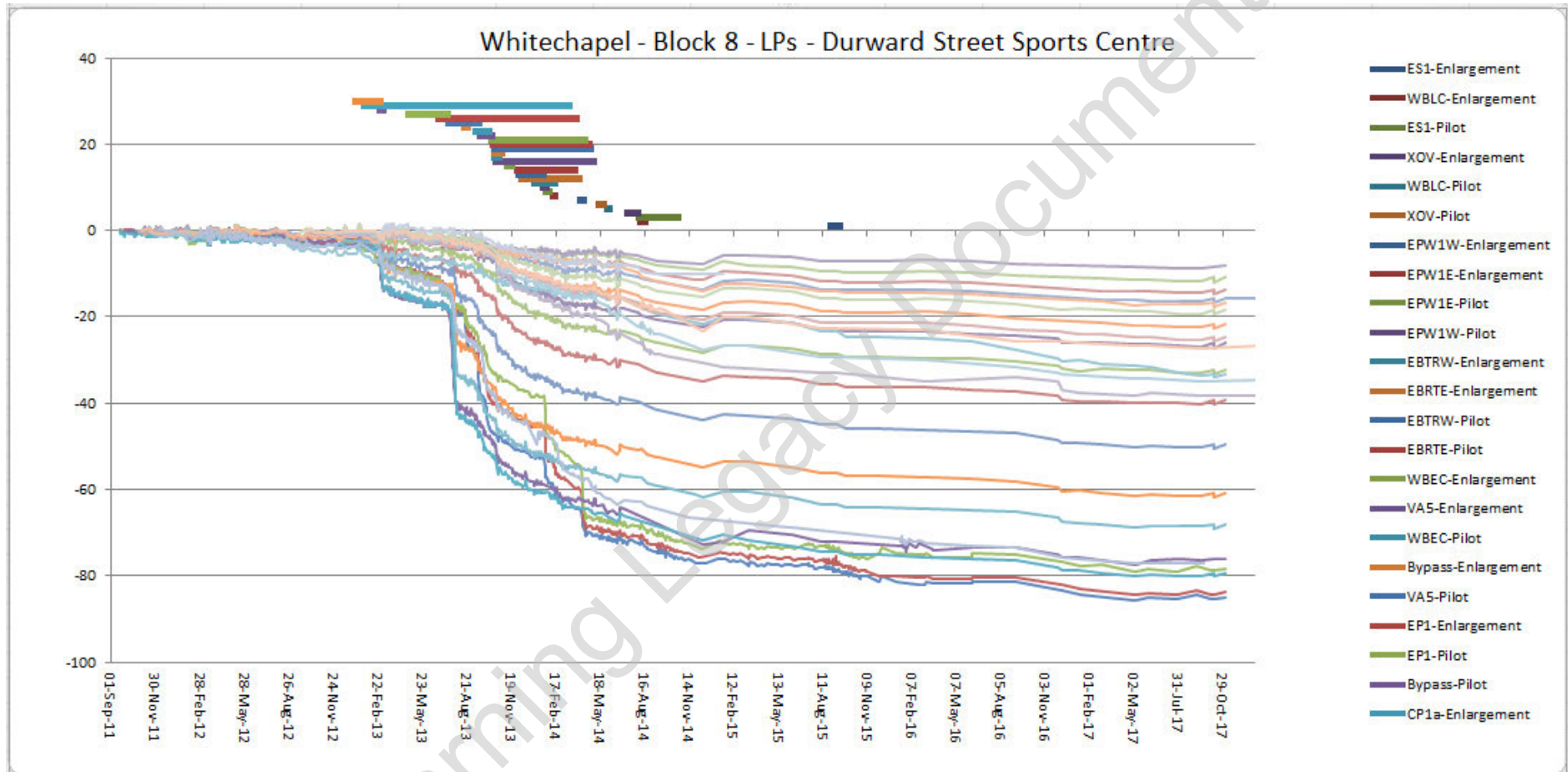
### 8.4.6 Block 08 - Section Configuration of the Road Stud Locations for Durward Street Sports Centre (continued)



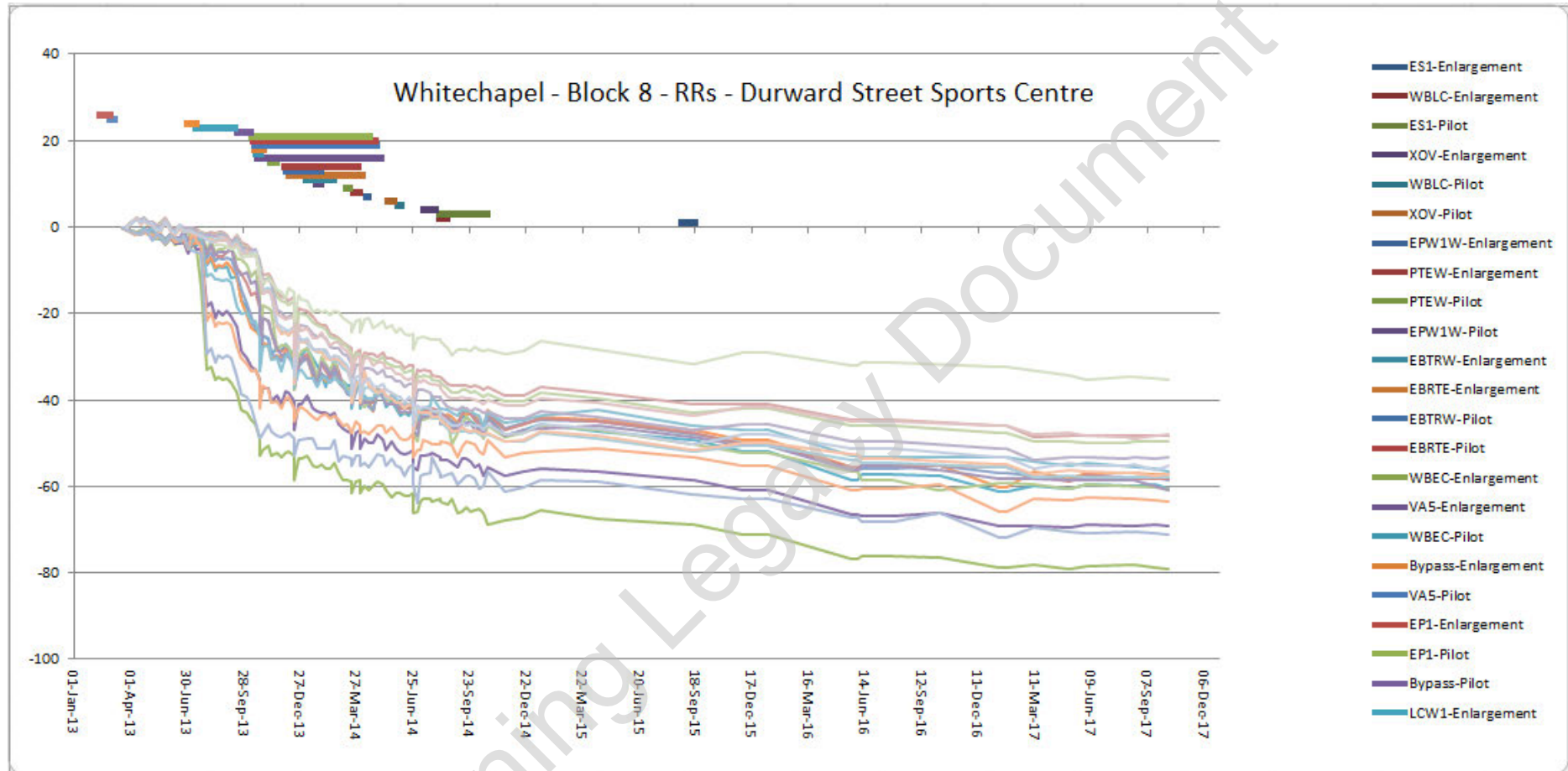
8.4.7 Block 08 – Outstanding LB & LC Monitoring Sensors displayed with the Construction Activities



8.4.8 Block 08 – Outstanding LP Monitoring Sensors displayed with the Construction Activities



8.4.9 Block 08 – Outstanding RR Monitoring Sensors displayed with the Construction Activities



## 8.4.10 Block 08 – Outstanding LB &amp; LC, RR and CK Monitoring Sensors Settlement Status Table

## WHI Close Out Report - Block 08

18/01/2018

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED
AVERAGE SETTLEMENT TREND		

CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-LB50801	Block 508	SS0801,SS0802	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	30/11/2017	1.4mm/yr	0.9mm/yr	-0.5mm/yr	2mm per annum specification met	Proposed
CS10-LB50802	Block 508	SS0801	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.3mm/yr	0.5mm/yr	-2.2mm/yr	Stable 6 month trend	Proposed
CS10-LB50803	Block 508	SS0801	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.2mm/yr	0.1mm/yr	-2.0mm/yr		Proposed
CS10-LB50804	Block 508	SS0801	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.3mm/yr	0.5mm/yr	-1.7mm/yr		Proposed
CS10-LB50805	Block 508	SS0801	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	1.1mm/yr	0.8mm/yr	-1.7mm/yr		Proposed
CS10-LB50806	Block 508	SS0801	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	-0.7mm/yr	0.9mm/yr	-1.8mm/yr		Proposed
CS10-LB50807	Block 508	SS0801	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-4	20/01/2016	02/11/2017	0.6mm/yr	-0.2mm/yr	-2.0mm/yr		Proposed
CS10-LB50808	Block 508	SS0801	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-5	25/01/2016	02/11/2017	1.8mm/yr	0.5mm/yr	-1.6mm/yr		Proposed
CS10-LB50809	Block 508	SS0801	External	Manual	LB	BRE	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	0.1mm/yr	-0.9mm/yr	-1.4mm/yr		Proposed
CS10-LB50810	Block 508	SS0802	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	30/11/2017	1.2mm/yr	1.3mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LB50811	Block 508	SS0802	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	30/11/2017	1.5mm/yr	1.9mm/yr	-1.0mm/yr		Proposed
CS10-LB50812	Block 508	SS0802,SS0803	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	3.3mm/yr	4.2mm/yr	0.2mm/yr		Proposed
CS10-LB50813	Block 508	SS0803	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	2.0mm/yr	3.8mm/yr	-0.1mm/yr		Proposed
CS10-LB50814	Block 508	SS0803	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.2mm/yr	1.8mm/yr	-0.9mm/yr		Proposed
CS10-LB50815	Block 508	SS0803,SS0804	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.9mm/yr	1.4mm/yr	-1.5mm/yr		Proposed
CS10-LB50816	Block 508	SS0804	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	1.9mm/yr	1.8mm/yr	-1.7mm/yr		Proposed
CS10-LB50817	Block 508	SS0804	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	2.2mm/yr	2.7mm/yr	-0.7mm/yr		Proposed
CS10-LB50818	Block 508	SS0804,SS0805	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	-2.3mm/yr	-1.5mm/yr	-2.5mm/yr	Stable 6 month trend	Proposed
CS10-LB50819	Block 508	SS0805	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.7mm/yr	0.5mm/yr	-1.7mm/yr		Proposed
CS10-LB50820	Block 508	SS0805	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	1.7mm/yr	1.7mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LB50821	Block 508	SS0805	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.5mm/yr	0.5mm/yr	-1.8mm/yr		Proposed
CS10-LB50822	Block 508	SS0802	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	30/11/2017	0.4mm/yr	0.4mm/yr	-3.6mm/yr	Stable 6 month trend	Proposed
CS10-LB50823	Block 508	SS0802	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	30/11/2017	-1.8mm/yr	0.2mm/yr	-1.0mm/yr	2mm per annum specification met	Proposed
CS10-LB50824	Block 508	SS0802	External	Manual	LB	BRE	WHI_BYPS_Ful-0_Adv-10	27/01/2016	30/11/2017	-2.6mm/yr	-2.3mm/yr	-2.7mm/yr	BRE not stable due to the extension is used - Supplementary evidence supplied	Proposed
CS10-LC50801	Block 508	SS0804	External	Manual	LC	Invar Scale	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.2mm/yr	0.7mm/yr	-1.8mm/yr		Proposed
CS10-LC50802	Block 508	SS0804	External	Manual	LC	Invar Scale	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	1.2mm/yr	1.9mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP50801	Block 508	SS0101,SS0801	External	Manual	LP	Road Stud	WHLES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	0.4mm/yr	0.8mm/yr	-2.4mm/yr		Proposed
CS10-LP50802	Block 508	SS0101,SS0801	External	Manual	LP	Road Stud	WHLES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	0.5mm/yr	0.6mm/yr	-2.5mm/yr	Stable 6 month trend	Proposed
CS10-LP50803	Block 508	SS0101,SS0801	External	Manual	LP	Road Stud	WHLES1_Downhill-0_Adv-27	13/10/2015	02/11/2017	0.4mm/yr	0.7mm/yr	-2.3mm/yr		Proposed
CS10-LP50813	Block 508	SS0802,SS0805	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.3mm/yr	2.2mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP50814	Block 508	SS0802,SS0803	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	-0.1mm/yr	0.3mm/yr	-2.3mm/yr		Proposed
CS10-LP50815	Block 508	SS0803	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.3mm/yr	0.5mm/yr	-2.3mm/yr	Stable 6 month trend	Proposed
CS10-LP50816	Block 508	SS0803	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.2mm/yr	0.5mm/yr	-1.9mm/yr		Proposed
CS10-LP50817	Block 508	SS0803	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.5mm/yr	0.4mm/yr	-1.8mm/yr		Proposed
CS10-LP50818	Block 508	SS0803	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	-0.2mm/yr	-0.6mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LP50819	Block 508	SS0803	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-7	25/01/2016	02/11/2017	0.2mm/yr	-0.3mm/yr	-1.5mm/yr		Proposed
CS10-LP50836	Block 508	SS0803	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-10	27/01/2016	02/11/2017	0.2mm/yr	0.3mm/yr	-2.2mm/yr	Stable 6 month trend	Proposed
CS10-LP50820	Block 508	SS0803,SS0804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	0.3mm/yr	0.3mm/yr	-1.5mm/yr		Proposed
CS10-LP50821	Block 508	SS0804,SS0807	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	18/01/2018	2.5mm/yr	1.3mm/yr	-0.7mm/yr		Proposed
CS10-LP50822	Block 508	SS0804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	0.3mm/yr	0.2mm/yr	-1.0mm/yr	2mm per annum specification met	Proposed
CS10-LP50823	Block 508	SS0804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	1.1mm/yr	0.8mm/yr	-0.8mm/yr		Proposed
CS10-LP50824	Block 508	SS0804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	0.5mm/yr	0.5mm/yr	-0.6mm/yr		Proposed
CS10-LP50825	Block 508	SS0804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	-4.9mm/yr	-4.9mm/yr	-4.7mm/yr	Loose slab - Supplementary evidence supplied	Proposed
CS10-LP50826	Block 508	SS0804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	0.7mm/yr	0.7mm/yr	-1.1mm/yr	2mm per annum specification met	Proposed
CS10-LP50829	Block 508	SS0805	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-10	27/01/2016	19/09/2017	0.2mm/yr	-1.5mm/yr	-3.2mm/yr	Stable 6 month trend	Proposed



## WHI Close Out Report - Block 08

18/01/2018

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

## AVERAGE SETTLEMENT TREND

ID	Block	SS	Access	Method	LP	Roed Stud	WHI	Start	End	T1	T2	T3	Notes	Status
CS10-LP50831	Block 508	S50806	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	0.1mm/yr	-0.5mm/yr	-0.2mm/yr	2mm per annum specification met	Proposed
CS10-LP50832	Block 508	S50806	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	02/11/2017	0.2mm/yr	-0.1mm/yr	-0.2mm/yr		Proposed
CS10-LP50837	Block 508	S50807	External	Manual	LP	Road Stud	WHI_BYPS_Ful-0_Adv-7	25/01/2016	18/01/2018	-0.2mm/yr	-1.3mm/yr	-0.7mm/yr		Proposed
CS10-LP50838	Block 508	S50807	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	18/01/2018	1.7mm/yr	-0.4mm/yr	-1.3mm/yr		Proposed
CS10-LP50839	Block 508	S50807	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	18/01/2018	2.0mm/yr	-0.2mm/yr	-0.5mm/yr	Proposed	
CS10-LP50842	Block 508	S50807	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	21/01/2015	#N/A	#N/A	#N/A	Supplementary evidence supplied	Destroyed
CS10-RR50801	Block 508	S50801;S50804	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-1.2mm/yr	-0.2mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-RR50802	Block 508	S50801	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-1.3mm/yr	-0.2mm/yr	-2.3mm/yr	Stable 6 month trend	Proposed
CS10-RR50803	Block 508	S50801;S50802	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-1.2mm/yr	0.0mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-RR50804	Block 508	S50802	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-1.2mm/yr	-0.1mm/yr	-0.6mm/yr	2mm per annum specification met	Proposed
CS10-RR50805	Block 508	S50802	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-2.1mm/yr	-1.1mm/yr	-2.8mm/yr	Stable 6 month trend	Proposed
CS10-RR50806	Block 508	S50802	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-3.2mm/yr	-0.2mm/yr	-3.5mm/yr	Stable 6 month trend	Proposed
CS10-RR50807	Block 508	S50802;S50803	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	1.2mm/yr	-0.1mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-RR50808	Block 508	S50803	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-0.5mm/yr	-0.5mm/yr	-3.4mm/yr	Stable 6 month trend	Proposed
CS10-RR50810	Block 508	S50804	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-2.9mm/yr	-2.1mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-RR50811	Block 508	S50804	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-2.3mm/yr	-0.5mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-RR50812	Block 508	S50804	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-0.5mm/yr	-2.2mm/yr	-3.5mm/yr	Stable 4 month trend	Proposed
CS10-RR50813	Block 508	S50805	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	0.1mm/yr	0.3mm/yr	-3.2mm/yr	Stable 6 month trend	Proposed
CS10-RR50814	Block 508	S50805	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	0.9mm/yr	-0.1mm/yr	-3.3mm/yr		Proposed
CS10-RR50815	Block 508	S50805	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-0.5mm/yr	0.7mm/yr	-3.1mm/yr		Proposed
CS10-RR50816	Block 508	S50805	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	0.1mm/yr	-0.2mm/yr	-3.2mm/yr		Proposed
CS10-RR50817	Block 508	S50805	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-1.9mm/yr	-0.8mm/yr	-3.2mm/yr	Proposed	
CS10-RR50818	Block 508	S50805	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-1.5mm/yr	-0.2mm/yr	-3.3mm/yr	Proposed	
CS10-RR50819	Block 508	S50805	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	0.3mm/yr	-0.9mm/yr	-3.2mm/yr	Proposed	
CS10-RR50820	Block 508	S50805	Internal	Manual	RR	Rebo	WHI_BYPS_Ful-0_Adv-10	27/01/2016	10/10/2017	-0.2mm/yr	-0.5mm/yr	-3.5mm/yr	Stable 4 month trend	Proposed
CS10-CK50801	Block 508	N/A	Internal	Automated	CK	Crack Monitor	WHI_VAS_Enlargement_Adv-46	03/05/2014	22/10/2017	0.4mm/yr	-0.1mm/yr	-0.3mm/yr	Specification fulfilled	Agreed
CS10-CK50802	Block 508	N/A	Internal	Automated	CK	Crack Monitor	WHI_VAS_Enlargement_Adv-62	04/05/2014	22/10/2017	0.5mm/yr	-0.1mm/yr	-0.4mm/yr		Agreed
CS10-CK50803	Block 508	N/A	Internal	Automated	CK	Crack Monitor	WHI_VAS_Enlargement_Adv-55	05/05/2014	22/10/2017	0.1mm/yr	-0.1mm/yr	-0.2mm/yr		Agreed
CS10-CK50804	Block 508	N/A	Internal	Automated	CK	Crack Monitor	WHI_VAS_Enlargement_Adv-58	05/05/2014	22/10/2017	1.5mm/yr	0.5mm/yr	-0.5mm/yr		Agreed
CS10-CK50813	Block 508	N/A	Internal	Manual	CK	Crack Monitor	WHI_WBLC_Enlargement_Adv-24	15/08/2014	15/01/2015	#N/A	#N/A	#N/A	Not measured since January 2015. Trend not applicable	Agreed
CS10-CK50814	Block 508	N/A	Internal	Manual	CK	Crack Monitor	WHI_WBLC_Enlargement_Adv-24	15/08/2014	15/01/2015	#N/A	#N/A	#N/A		Agreed
CS10-CK50815	Block 508	N/A	Internal	Manual	CK	Crack Monitor	WHI_WBLC_Enlargement_Adv-27	16/08/2014	10/10/2017	0.0mm/yr	-0.2mm/yr	-0.2mm/yr		Agreed
CS10-CK50816	Block 508	N/A	Internal	Manual	CK	Crack Monitor	WHI_WBLC_Enlargement_Adv-6	10/08/2014	10/10/2017	0.0mm/yr	0.0mm/yr	0.0mm/yr	Specification fulfilled	Agreed
CS10-CK50817	Block 508	N/A	Internal	Manual	CK	Crack Monitor	WHI_XOV_Enlargement_Adv-24	19/07/2014	10/10/2017	0.0mm/yr	-0.2mm/yr	0.0mm/yr		Agreed
CS10-CK50818	Block 508	N/A	Internal	Manual	CK	Crack Monitor	WHI_WBLC_Enlargement_Adv-12	11/08/2014	10/10/2017	0.0mm/yr	0.2mm/yr	0.2mm/yr		Agreed

#### 8.4.11 Supplementary Evidence

Please see Monitoring Sensors Settlement Status Table for details about the Supplementary evidence shown below.

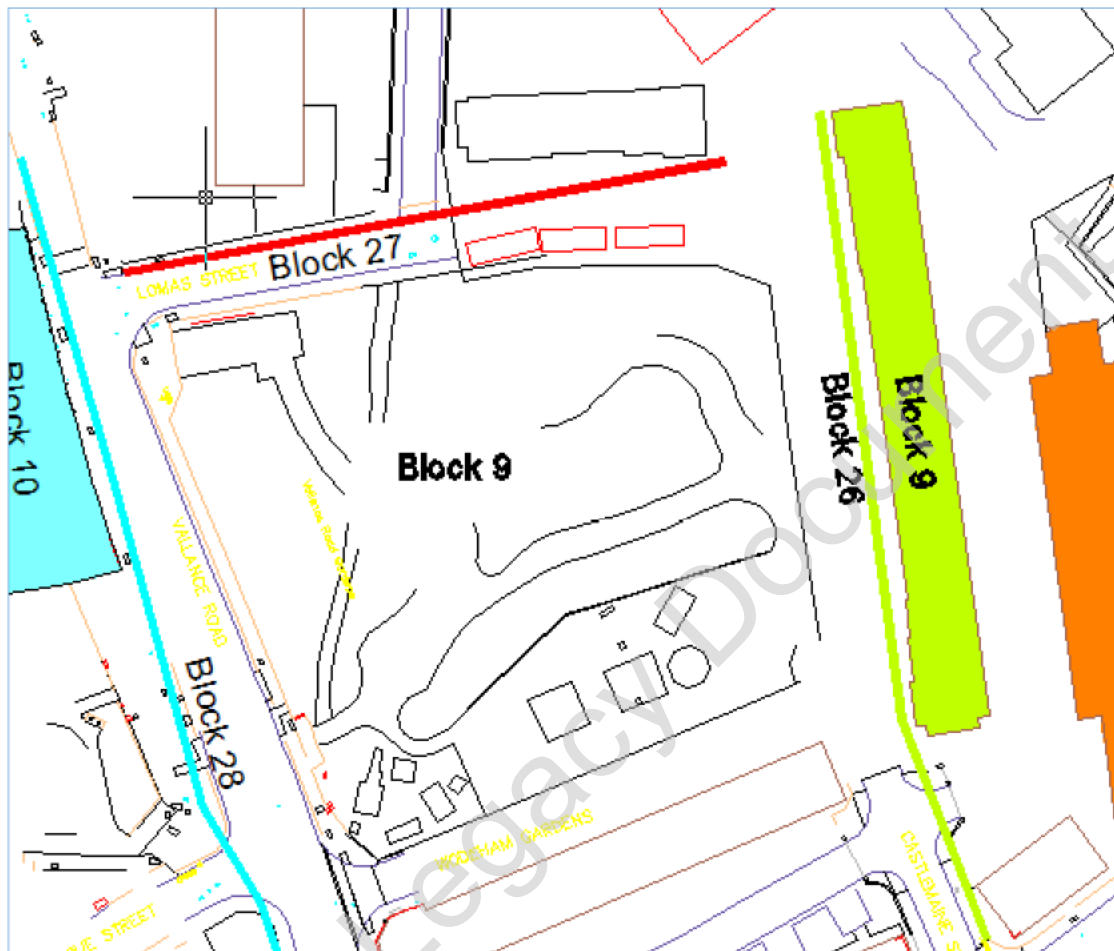
Monitoring Points LB50824, LP50842 and LP50525.





## 8.5. Block 09 Data Analysis

### 8.5.1 Block 09 Location Plan



### 8.5.2 Block 09 Monitoring Sensors

The monitoring sensors within Whitechapel Block 09 Castlemaine Street and Vallance Road Gardens consists of automated and manual monitoring. The automated monitoring included geodetic targets attached to the external facades building.

All automated monitoring has been decommissioned within Whitechapel Block 09.

The manual monitoring included in Block 09 consists of 3 sections of BRE's installed along the front facades of the residential properties. The road studs consist of 8 sections which were installed in the surrounding hard standings of the footpaths in Castlemaine Street and Vallance Road Gardens. The manual monitoring sensors were installed to measure vertical displacements during the construction works.

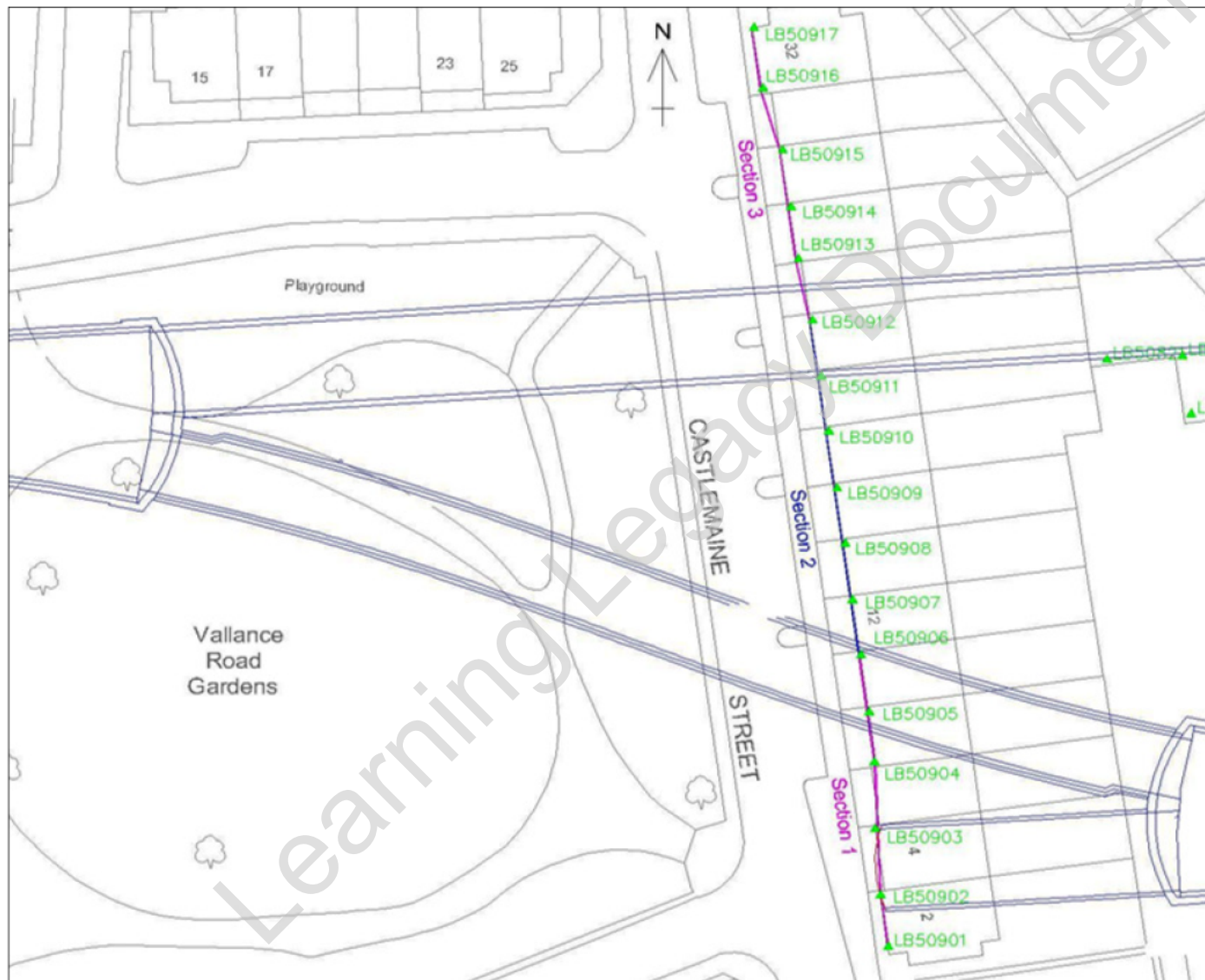
The BRE's and road studs for all sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 09 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

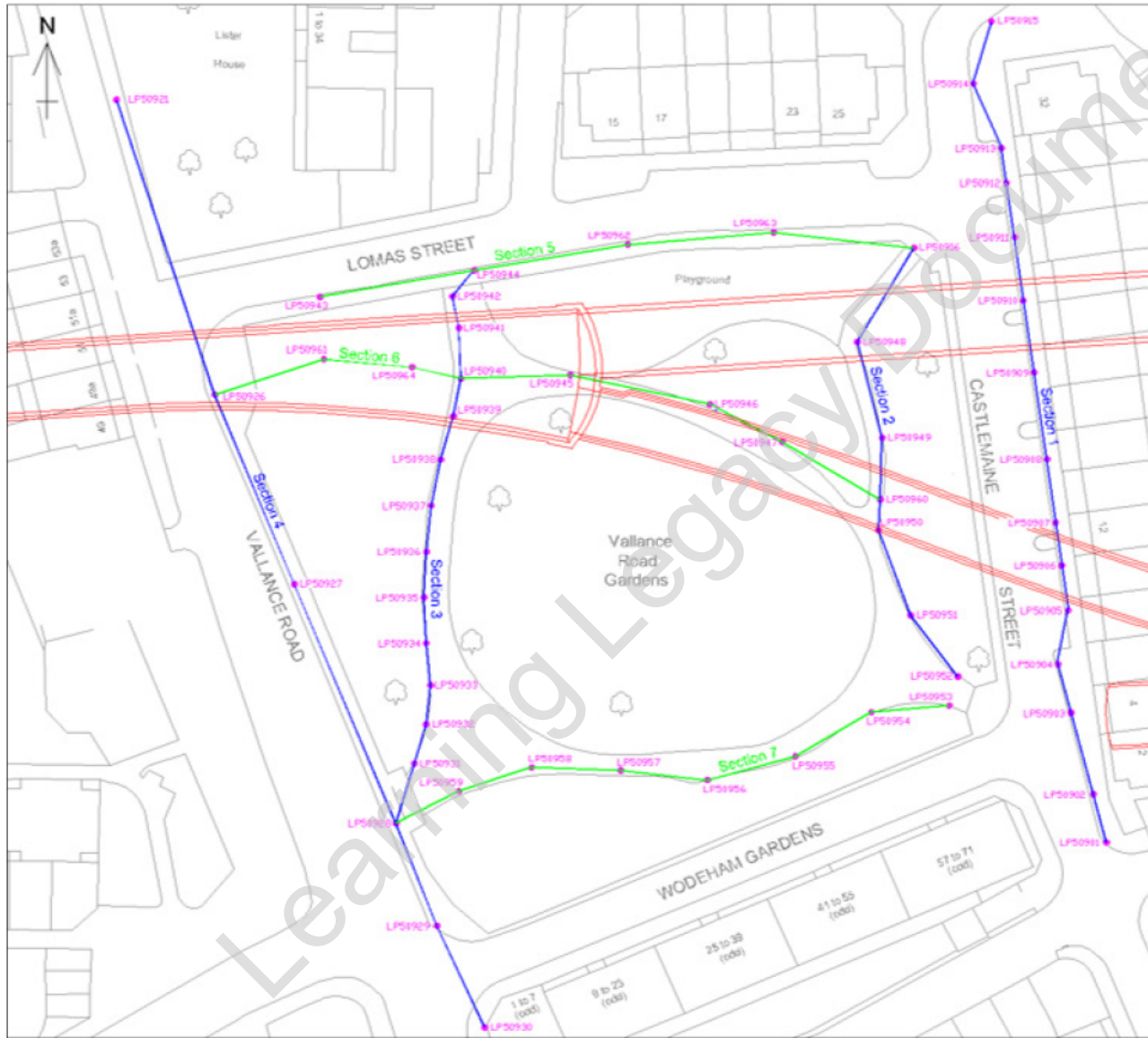
8.5.3 Block 09 - Plot to show Whitechapel Block 9 and the SCL Tunnels within the a 60m ZOI



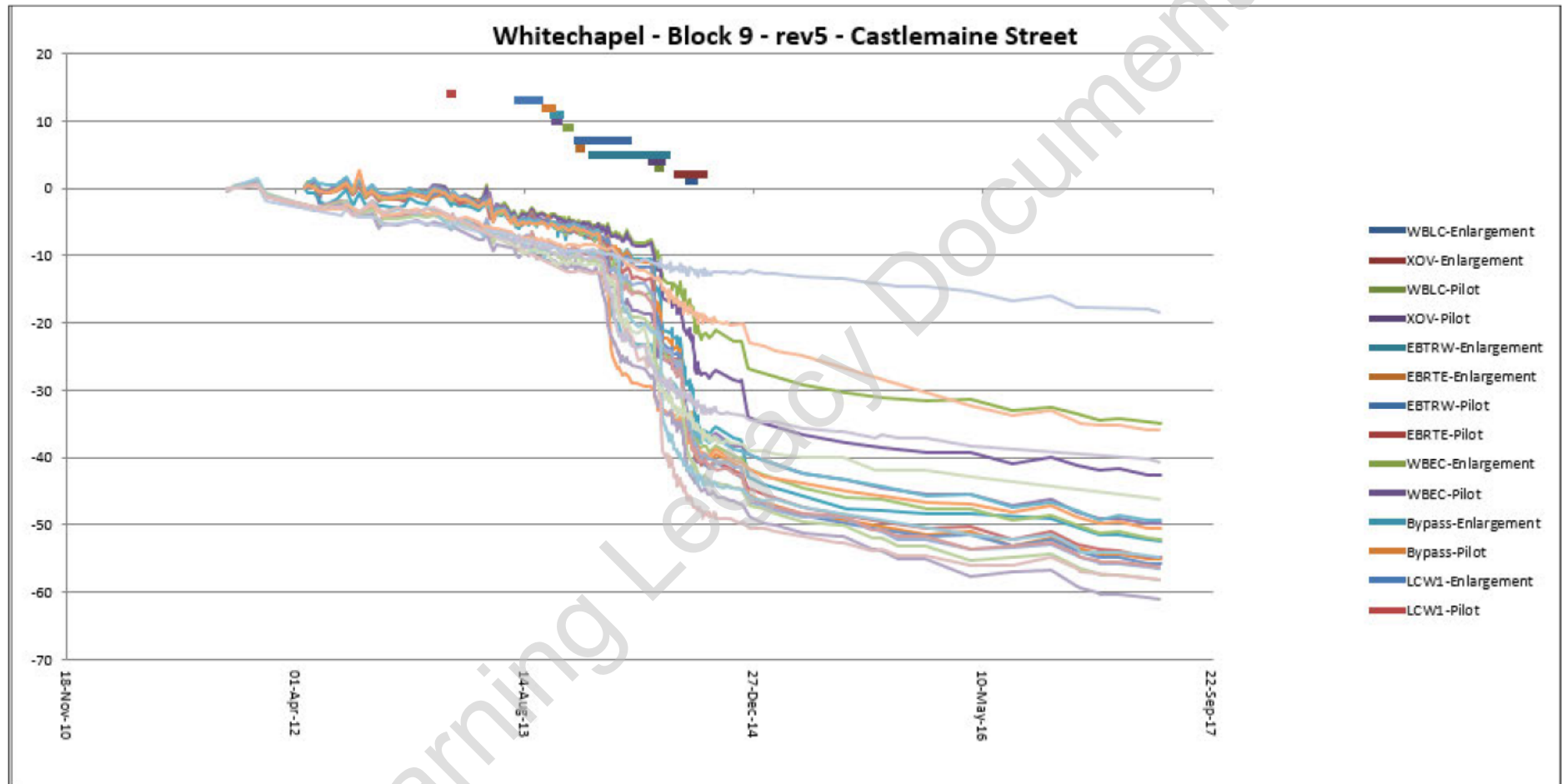
### 8.5.4 Block 09 - Section Configuration of the BRE Locations for Castlemaine Street



8.5.5 Block 09 - Section Configuration of the Road Stud Locations for Castlemaine Street and Vallance Road Gardens



8.5.6 Block 09 – Outstanding Monitoring Sensors displayed with the Construction Activities





### 8.5.7 Block 09 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 09

10/01/2018

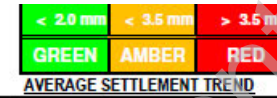
< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LB50901	Block 509	S50901	External	Manual	LB	BRE	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	01/11/2017	0.3mm/yr	-0.2mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
C510-LB50902	Block 509	S50901	External	Manual	LB	BRE	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	01/11/2017	0.9mm/yr	0.5mm/yr	-2.2mm/yr		Proposed
C510-LB50903	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Enlargement-0_Adv-124	04/09/2014	01/11/2017	1.2mm/yr	0.5mm/yr	-2.4mm/yr		Proposed
C510-LB50904	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	-0.6mm/yr	-1.0mm/yr	-2.9mm/yr		Proposed
C510-LB50905	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-2	18/01/2016	01/11/2017	0.2mm/yr	-0.2mm/yr	-2.9mm/yr	Stable 9 month trend	Proposed
C510-LB50906	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-3	19/01/2016	01/11/2017	0.2mm/yr	-0.2mm/yr	-3.0mm/yr		Proposed
C510-LB50907	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-4	20/01/2016	01/11/2017	0.7mm/yr	0.0mm/yr	-2.9mm/yr		Proposed
C510-LB50908	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-6	25/01/2016	01/11/2017	0.5mm/yr	-0.1mm/yr	-2.7mm/yr		Proposed
C510-LB50909	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-6	25/01/2016	01/11/2017	-0.1mm/yr	-0.7mm/yr	-2.3mm/yr		Proposed
C510-LB50910	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-6	25/01/2016	01/11/2017	0.7mm/yr	0.0mm/yr	-2.6mm/yr		Proposed
C510-LB50911	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-4	20/01/2016	28/02/2017	-3.6mm/yr	-2.0mm/yr	-2.0mm/yr		Agreed
C510-LB50912	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-2	18/01/2016	06/10/2016	-0.3mm/yr	-0.7mm/yr	-1.3mm/yr		Agreed
C510-LB50913	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	-1.1mm/yr	-0.6mm/yr	-1.3mm/yr		Agreed
C510-LB50914	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	-0.7mm/yr	-0.4mm/yr	-0.8mm/yr	2mm per annum specification met	Agreed
C510-LB50915	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.2mm/yr	-0.4mm/yr	-0.8mm/yr		Agreed
C510-LB50916	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	-1.3mm/yr	-0.6mm/yr	-0.9mm/yr		Agreed
C510-LB50917	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	-1.5mm/yr	-0.9mm/yr	-0.9mm/yr		Agreed
C510-LP50901	Block 509	S50901	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	06/10/2016	1.9mm/yr	0.5mm/yr	-0.7mm/yr		Agreed
C510-LP50902	Block 509	S50901	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	06/10/2016	2.3mm/yr	-0.2mm/yr	-1.3mm/yr		Agreed
C510-LP50903	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.8mm/yr	-0.7mm/yr	-1.4mm/yr		Agreed
C510-LP50904	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	Stud was destroyed when a nearby tree was rooted out - Supplementary evidence supplied	Destroyed
C510-LP50905	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	-0.4mm/yr	-0.6mm/yr	-2.6mm/yr		Proposed
C510-LP50906	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	-0.4mm/yr	-0.8mm/yr	-2.7mm/yr	Stable 9 month trend	Proposed
C510-LP50907	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	-0.3mm/yr	-0.8mm/yr	-2.9mm/yr		Proposed
C510-LP50908	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	-0.3mm/yr	-0.9mm/yr	-3.0mm/yr		Proposed
C510-LP50909	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	3.3mm/yr	-0.2mm/yr	-1.8mm/yr		Agreed
C510-LP50910	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.9mm/yr	-0.1mm/yr	-1.6mm/yr		Agreed
C510-LP50911	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.5mm/yr	-0.3mm/yr	-1.4mm/yr		Agreed
C510-LP50912	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.5mm/yr	-0.1mm/yr	-1.1mm/yr	2mm per annum specification met	Agreed
C510-LP50913	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.5mm/yr	-0.1mm/yr	-1.2mm/yr		Agreed
C510-LP50914	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.8mm/yr	-0.2mm/yr	-1.0mm/yr		Agreed
C510-LP50915	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Enlargement-0_Adv-118	06/08/2014	06/10/2016	0.4mm/yr	-1.0mm/yr	-1.6mm/yr		Agreed
C510-LP50917	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A		Complete
C510-LP50918	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	Monitoring ceased as points were replaced by studs monitored for Block27/Section 02	Complete
C510-LP50919	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A		Complete
C510-LP50920	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A		Complete
C510-LP50921	Block 509	S50904	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-51	18/08/2014	10/01/2018	#N/A	#N/A	-2.6mm/yr	Trends are affected by a 3mm jump in Feb.2017 but generally are similar to LP50926 & 27	Proposed
C510-LP50922	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-3	09/09/2014	13/04/2015	#N/A	#N/A	#N/A		Complete
C510-LP50923	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-8	13/09/2014	13/04/2015	#N/A	#N/A	#N/A	Monitoring ceased as points were replaced by studs monitored for Block28/Section 02, 03 and 04	Complete
C510-LP50924	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2015	#N/A	#N/A	#N/A		Complete
C510-LP50925	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2015	#N/A	#N/A	#N/A		Complete
C510-LP50926	Block 509	S50904;S50906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.3mm/yr	-0.8mm/yr	-1.3mm/yr		Proposed
C510-LP50927	Block 509	S50904	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	1.0mm/yr	-0.5mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
C510-LP50929	Block 509	S50904	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-1.0mm/yr	-1.0mm/yr	-1.0mm/yr		Proposed

WHI Close Out Report - Block 09

10/01/2018



C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LP50930	Block 509	S50904	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	0.1mm/yr	-2.3mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
C510-LP50943	Block 509	S50905	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	-0.1mm/yr	-0.5mm/yr	-2.7mm/yr	Stable 9 month trend	Proposed
C510-LP50945	Block 509	S50906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	07/12/2016	-0.2mm/yr	-0.2mm/yr	-1.1mm/yr	2mm per annum specification met	Proposed
C510-LP50946	Block 509	S50906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	#N/A	#N/A	#N/A	Sensor Terminated - Sensor couldn't be found as the paint wore off	Destroyed
C510-LP50947	Block 509	S50906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	07/12/2016	#N/A	#N/A	-1.6mm/yr	2mm per annum specification met	Proposed
C510-LP50961	Block 509	S50906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	03/10/2014	#N/A	#N/A	#N/A	Supplementary evidence supplied	Destroyed
C510-LP50962	Block 509	S50905	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	-1.8mm/yr	-1.5mm/yr	-2.5mm/yr	Stable 6 month trend	Proposed
C510-LP50963	Block 509	S50905	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	0.5mm/yr	0.1mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
C510-LP50964	Block 509	S50906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	#N/A	#N/A	#N/A	Supplementary evidence supplied	Destroyed

Learning Legacy D

### 8.5.8 Supplementary Evidence

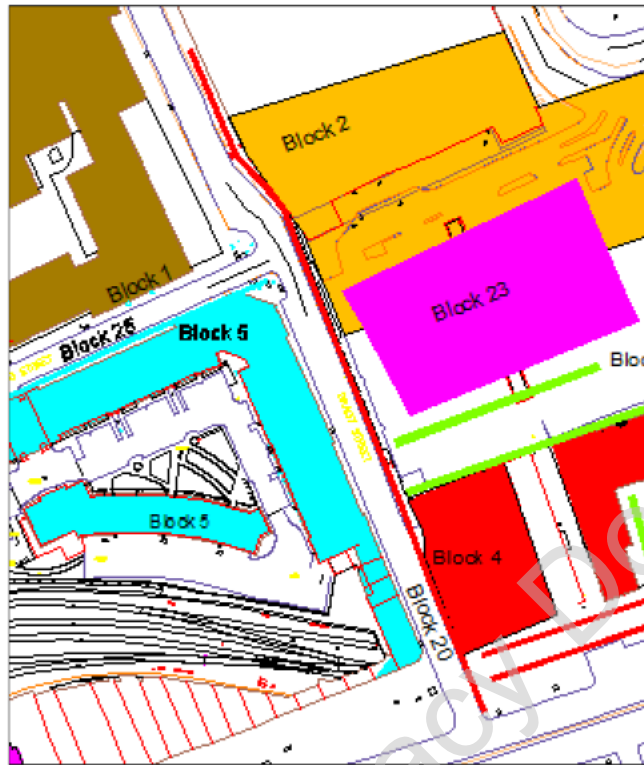
Please see Monitoring Sensors Settlement Status Table for details about the Supplementary evidence shown below.

Monitoring Points LP50904, LP50961 and LP50964.



## 8.6. Block 20 Data Analysis

### 8.6.1 Block 20 Location Plan



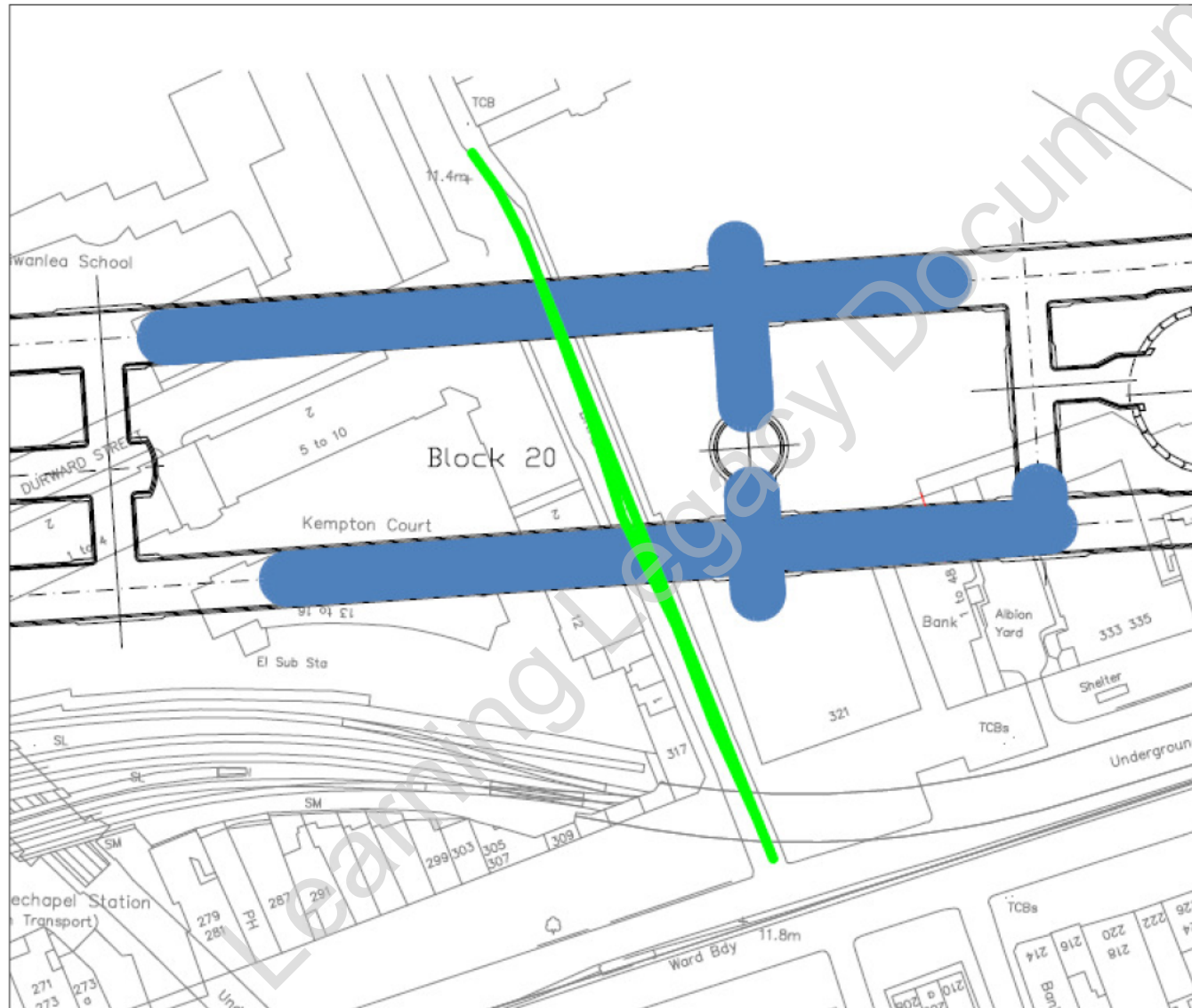
### 8.6.2 Block 20 Monitoring Sensors

Whitechapel Block 20 is a replacement road stud array which runs along the length of the eastside of Brady Street. Block 20 was created to group the road studs initially installed for blocks 02 and block 04 and to add additional road studs with less spacing. The array was installed to measure vertical displacements during the construction works.

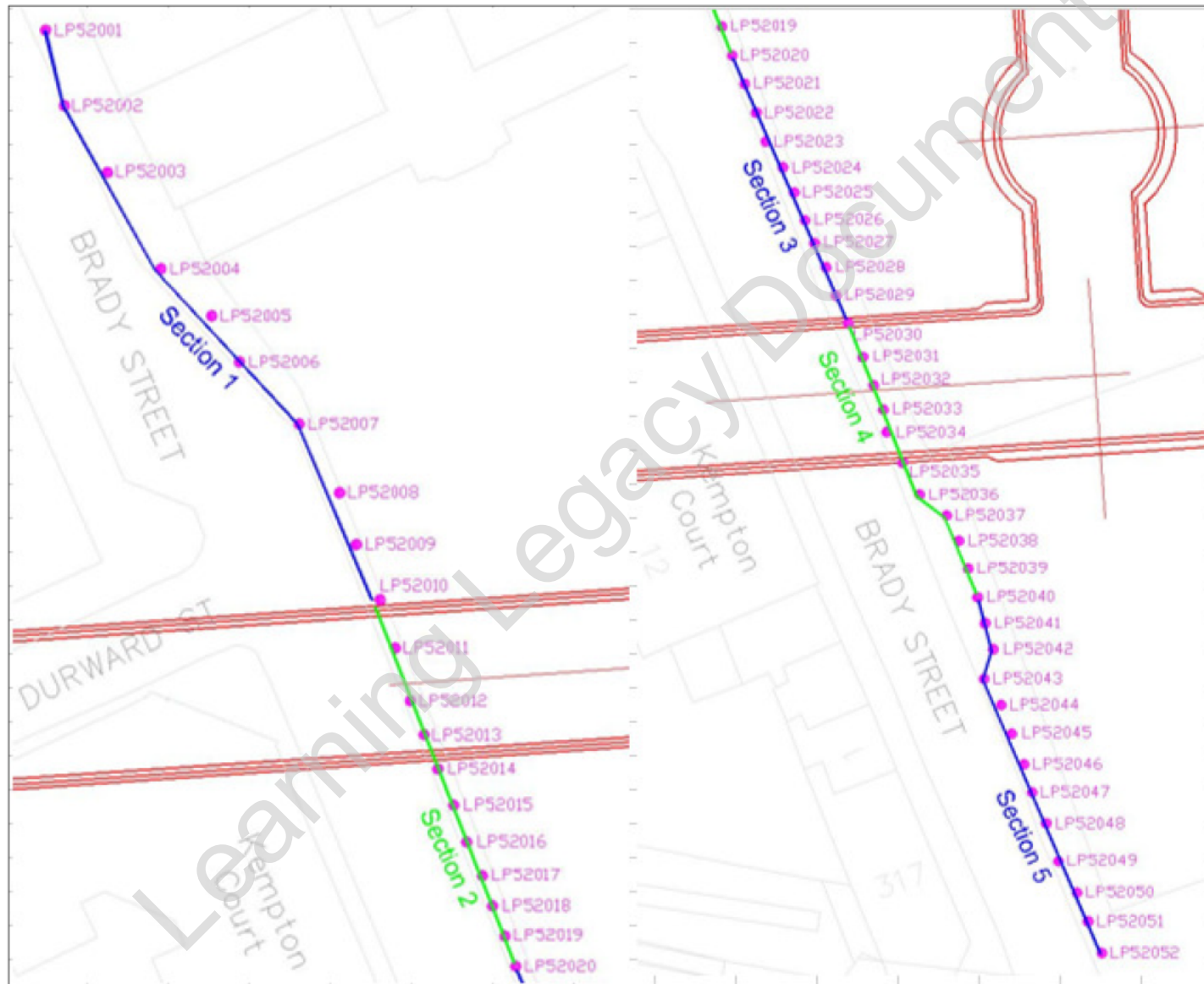
The manual monitoring included in Block 20 consists of 5 sections of road studs. All sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 20 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

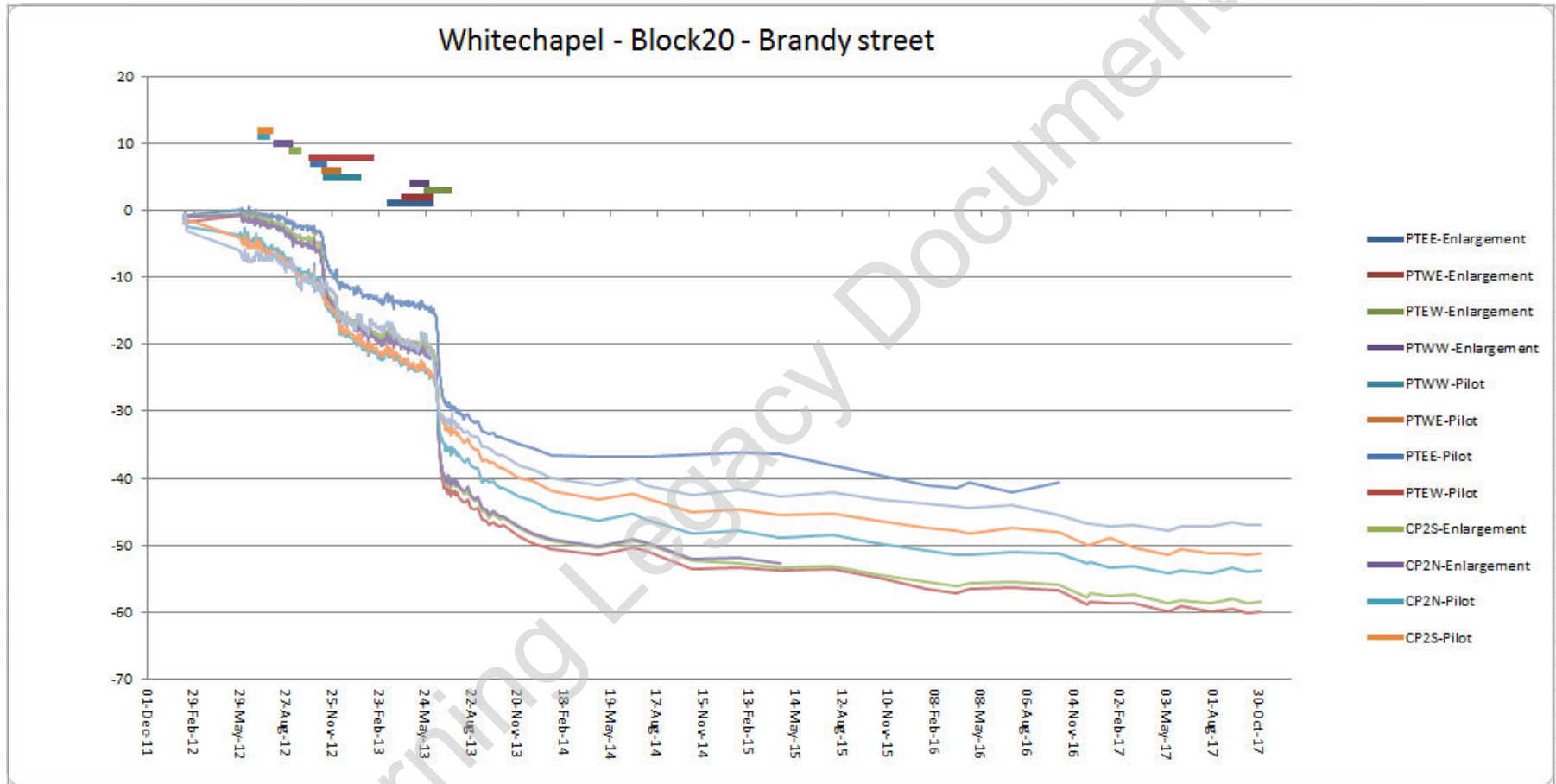
8.6.3 Block 20 - Plot to show Whitechapel Block 20 and the SCL Tunnels within the a 60m ZOI



8.6.4 Block 20 – Brady Street - LP Sections 1, 2, 3, 4, 5 Settlement Graphs with the Construction Activities



8.6.5 Block 20 – Outstanding Monitoring Sensors displayed with the Construction Activities



## 8.6.6 Block 20 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 20

02/11/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

## AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LP52009	Block 520	S52001	External	Manual	LP	Road Stud	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	6.1mm/yr	0.5mm/yr	-2.5mm/yr	Stable 6 month trend	Agreed
C510-LP52012	Block 520	S52002	External	Manual	LP	Road Stud	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	02/11/2017	-1.6mm/yr	-0.7mm/yr	-2.2mm/yr	Stable 6 month trend	Proposed
C510-LP52013	Block 520	S52002	External	Manual	LP	Road Stud	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	02/11/2017	-0.7mm/yr	-0.1mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
C510-LP52014	Block 520	S52002	External	Manual	LP	Road Stud	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	14/04/2015	-1.2mm/yr	-3.8mm/yr	-3.2mm/yr	Stud being removed by others/Supplementary evidence supplied	Destroyed
C510-LP52018	Block 520	S52002	External	Manual	LP	Road Stud	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	02/11/2017	0.0mm/yr	0.6mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
C510-LP52020	Block 520	S52002,S52003	External	Manual	LP	Road Stud	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	02/11/2017	-1.7mm/yr	-0.7mm/yr	-2.6mm/yr	Stable 6 month trend	Proposed
C510-LP52027	Block 520	S52003	External	Manual	LP	Road Stud	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	02/11/2017	0.9mm/yr	1.8mm/yr	-0.6mm/yr	2mm per annum specification met	Proposed

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### 8.6.7 Supplementary Evidence

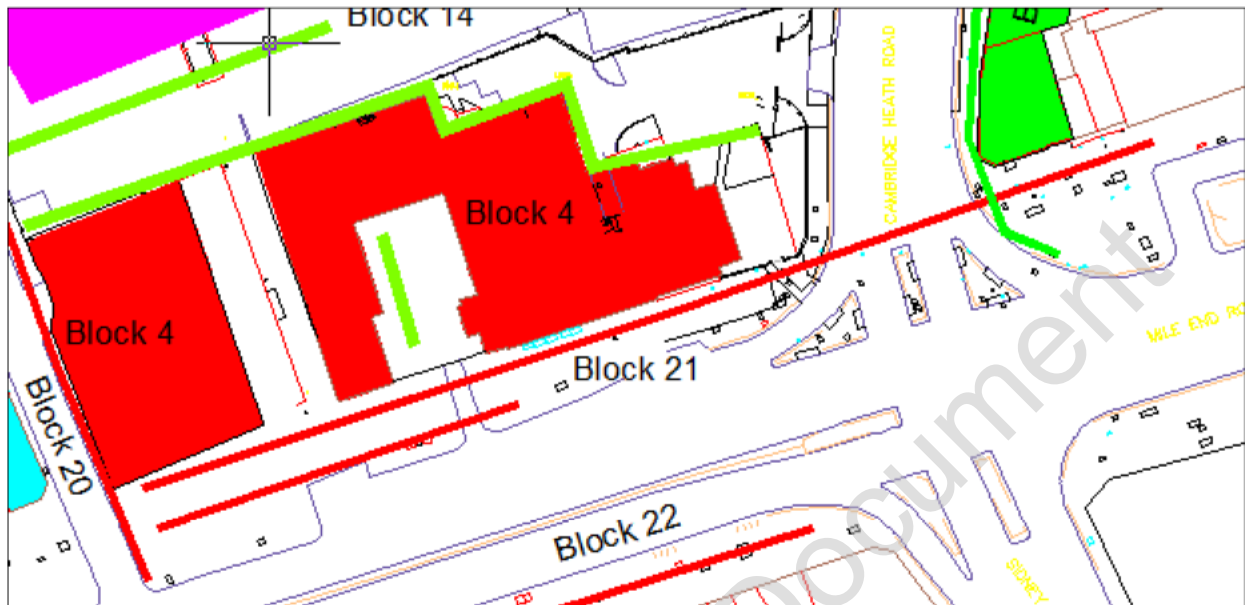
Please see Monitoring Sensors Settlement Status Table for details about the Supplementary evidence shown below.

Monitoring Point LP52014.



## 8.7. Block 21 Data Analysis

### 8.7.1 Block 21 Location Plan



### 8.7.2 Block 21 Monitoring Sensors

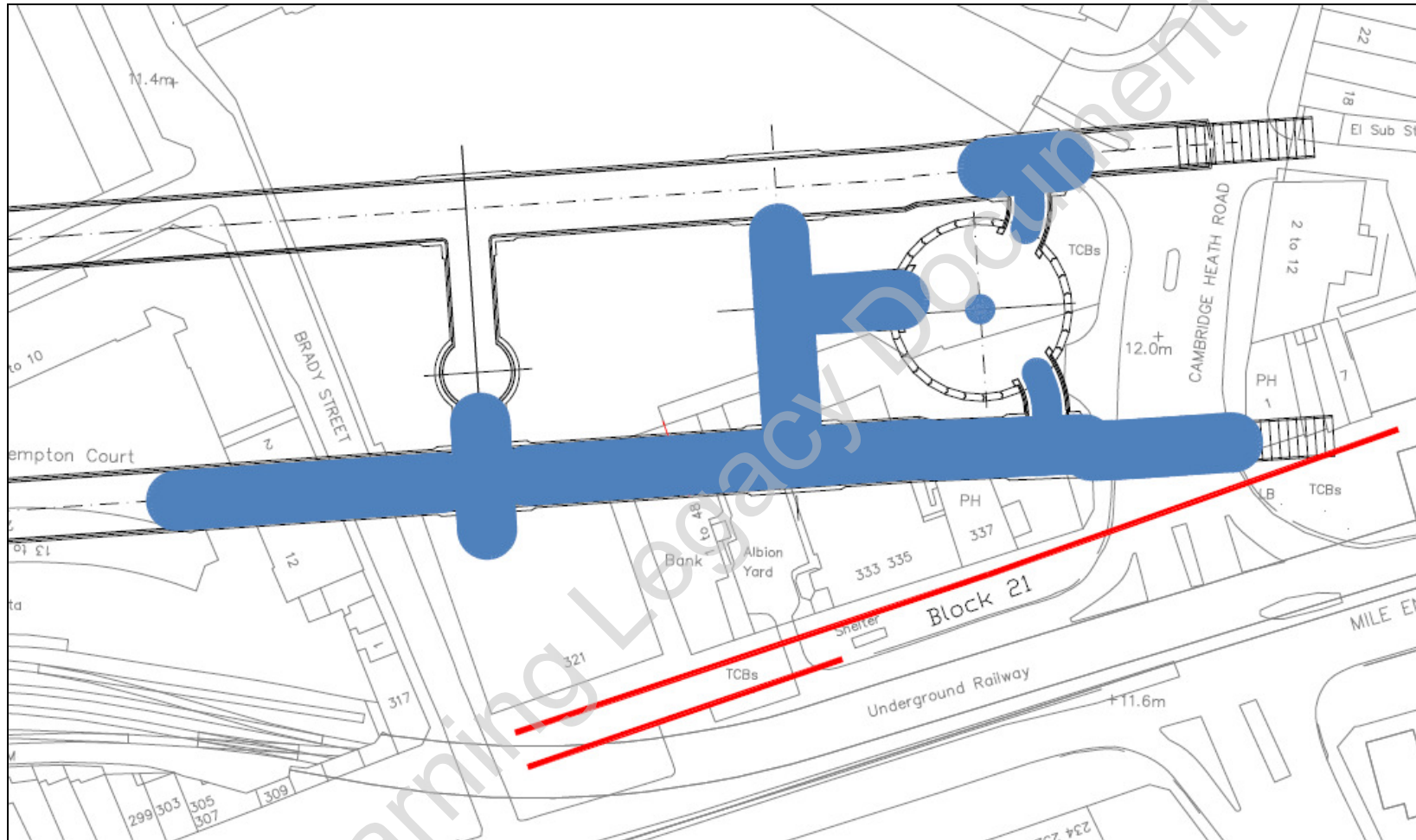
Whitechapel Block 21 consists of one array of road studs along Whitechapel Road in front of block 04 and across to block 03. The array consists of 4 sections and is a combination of new road studs installed at closer centres and existing Block 04 road studs. The road studs were installed to measure vertical displacements during the construction works.

LP sections 1, 2, 4 have been agreed to cease monitoring in a previous ERP meeting.

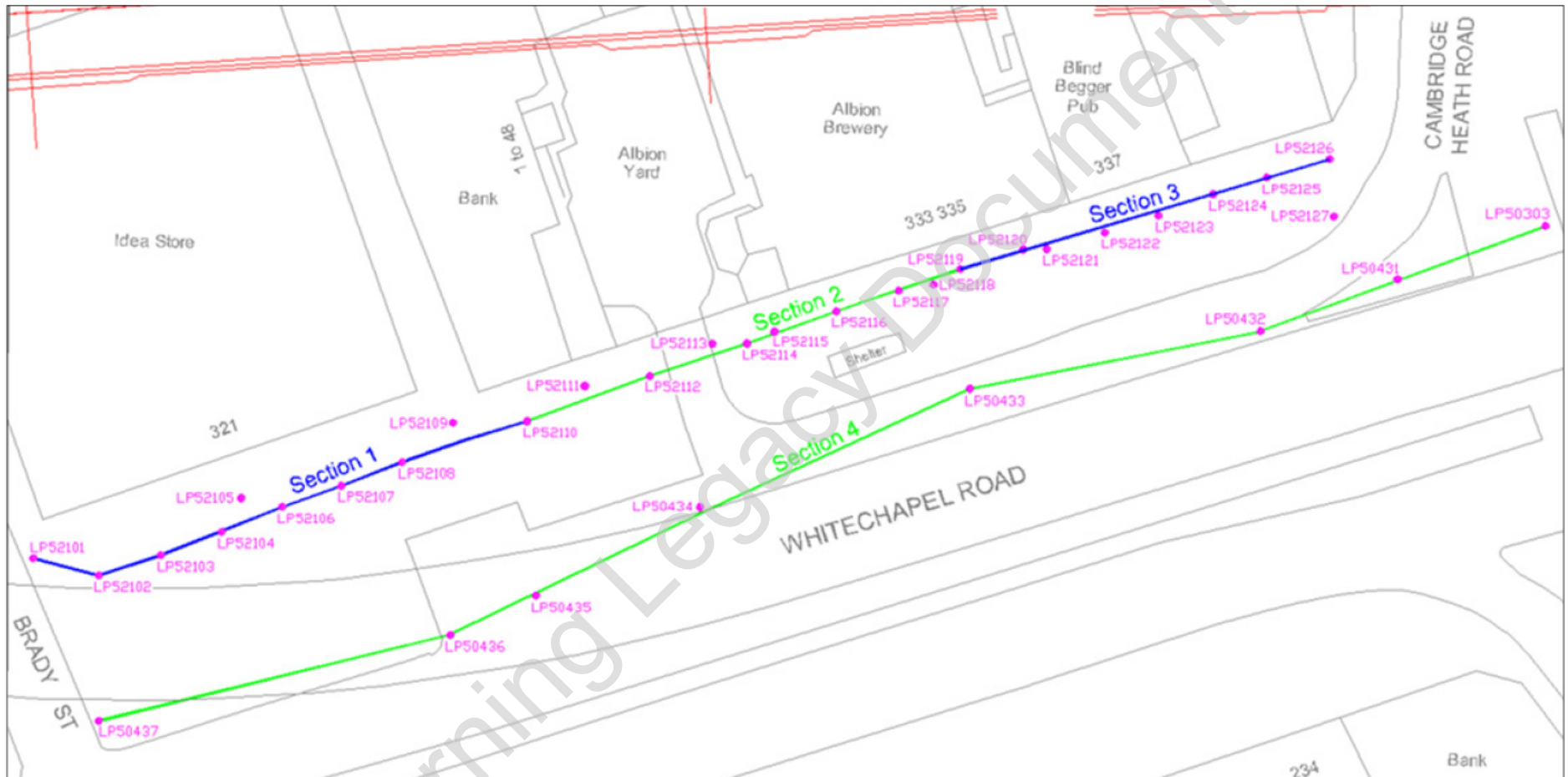
LP section 3 has been reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 21 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had been agreed in the ERP meeting.

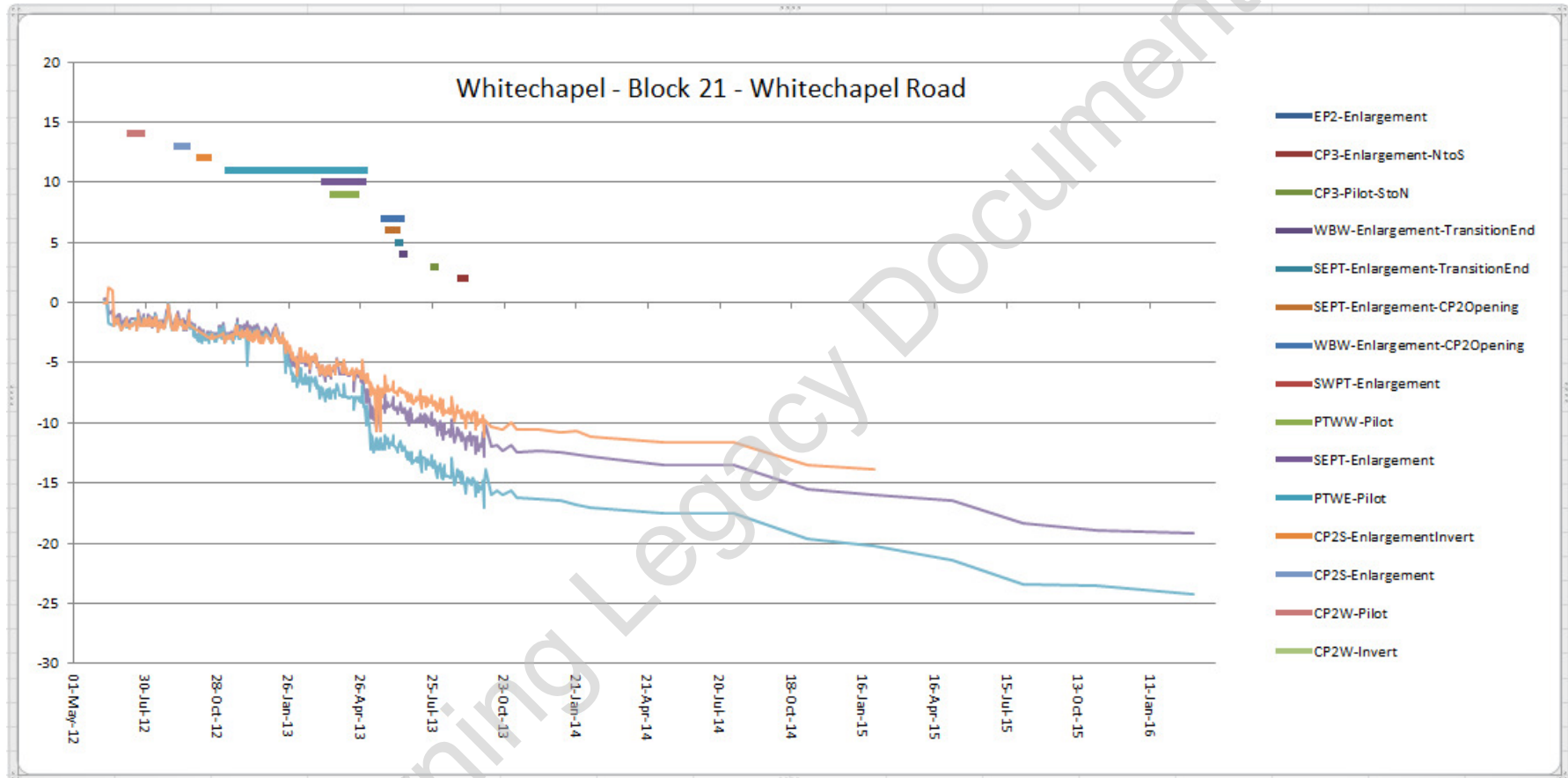
8.7.3 Block 21 - Plot to show Whitechapel Block 21 and the SCL Tunnels within the a 60m ZOI



### 8.7.4 Block 21 - Section Configuration of the Road Stud Locations for Whitechapel Road



8.7.5 Block 21 – Outstanding Monitoring Sensors displayed with the Construction Activities – Agreed to Cease in ERP Meeting



## 8.7.6 Block 21 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 21

04/03/2016

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

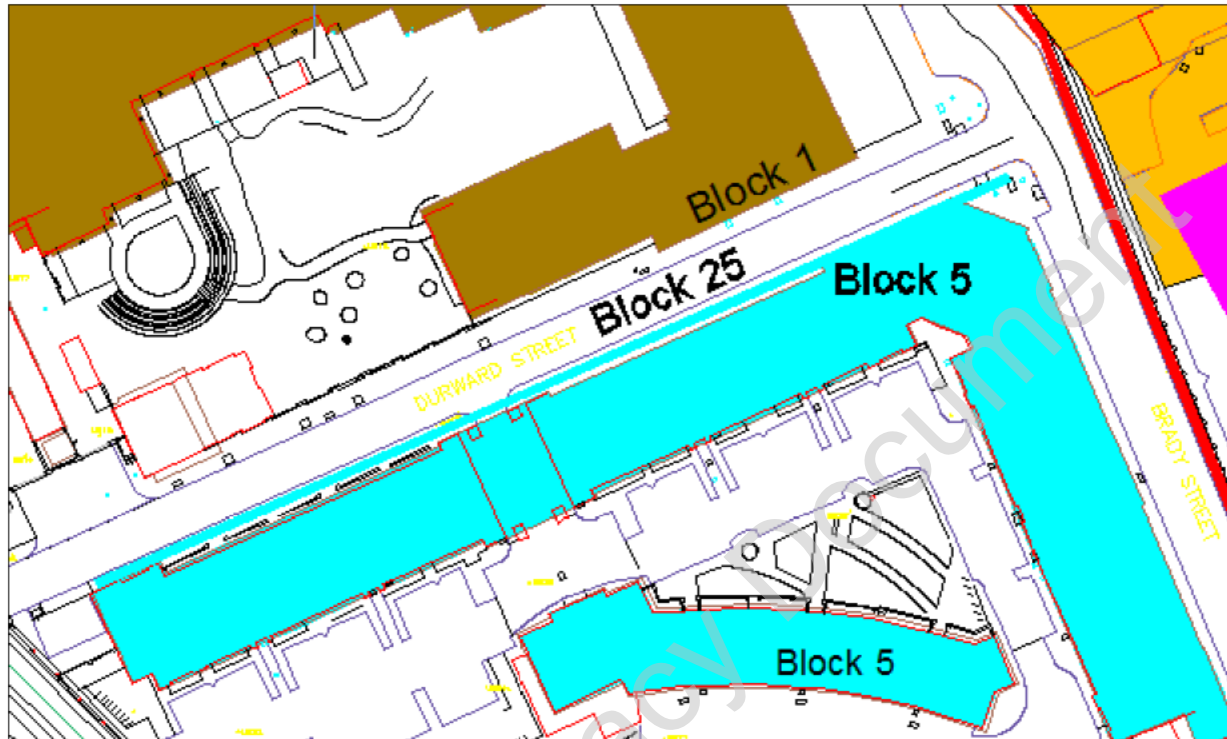
## AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LP52125	Block 521	552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	-0.9mm/yr	-1.3mm/yr	-3.2mm/yr	ERP Agreed	Agreed
C510-LP52126	Block 521	552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	-2.1mm/yr	-1.4mm/yr	-3.7mm/yr	ERP Agreed	Agreed
C510-LP52127	Block 521	552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	29/01/2015	#N/A	#N/A	#N/A	Destroyed by roadworks/ERP Agreed	Destroyed

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## 8.8. Block 25 Data Analysis

### 8.8.1 Block 25 Location Plan



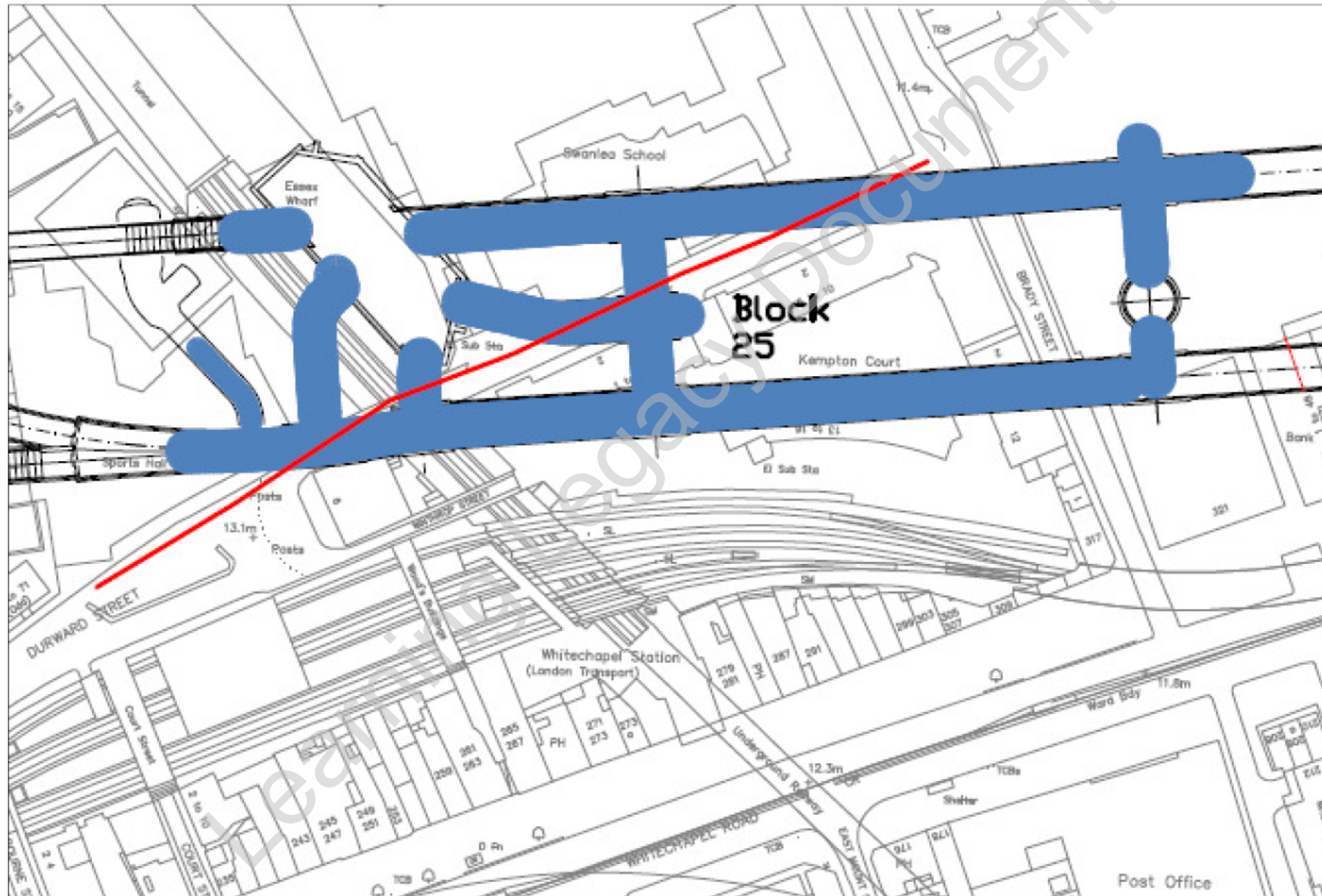
### 8.8.2 Block 25 Monitoring Sensors

The manual monitoring included in Block 25 consists of road studs installed along the southern footpath of Durward Street. The manual monitoring sensors were installed to measure vertical displacements during the construction works.

The manual monitoring included in Block 25 consists of 3 sections of road studs. All sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 25 is referenced in appendix E.

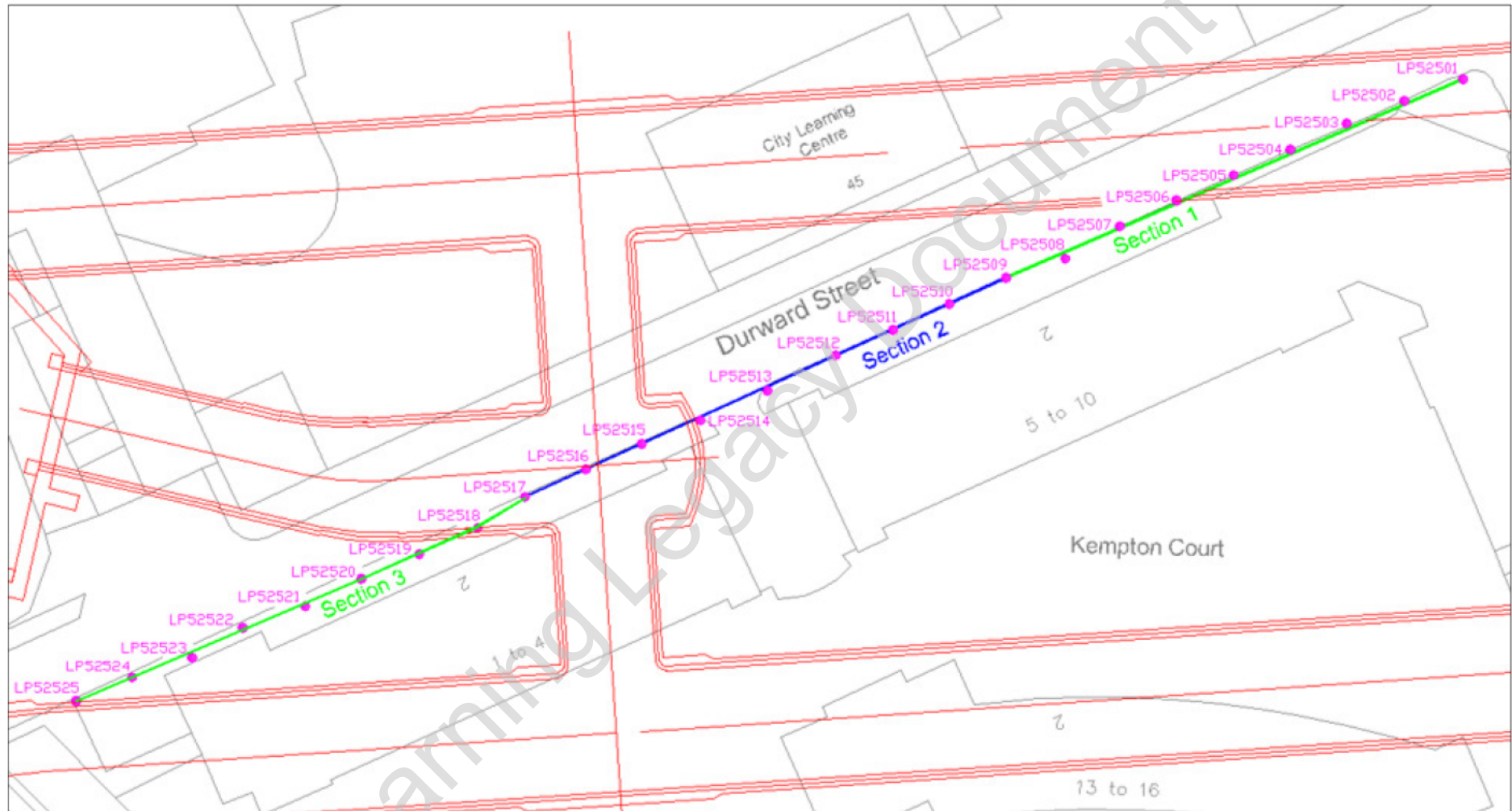
The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

8.8.3 Block 25 - Plot to show Whitechapel Block 25 and the SCL Tunnels within the a 60m ZOI

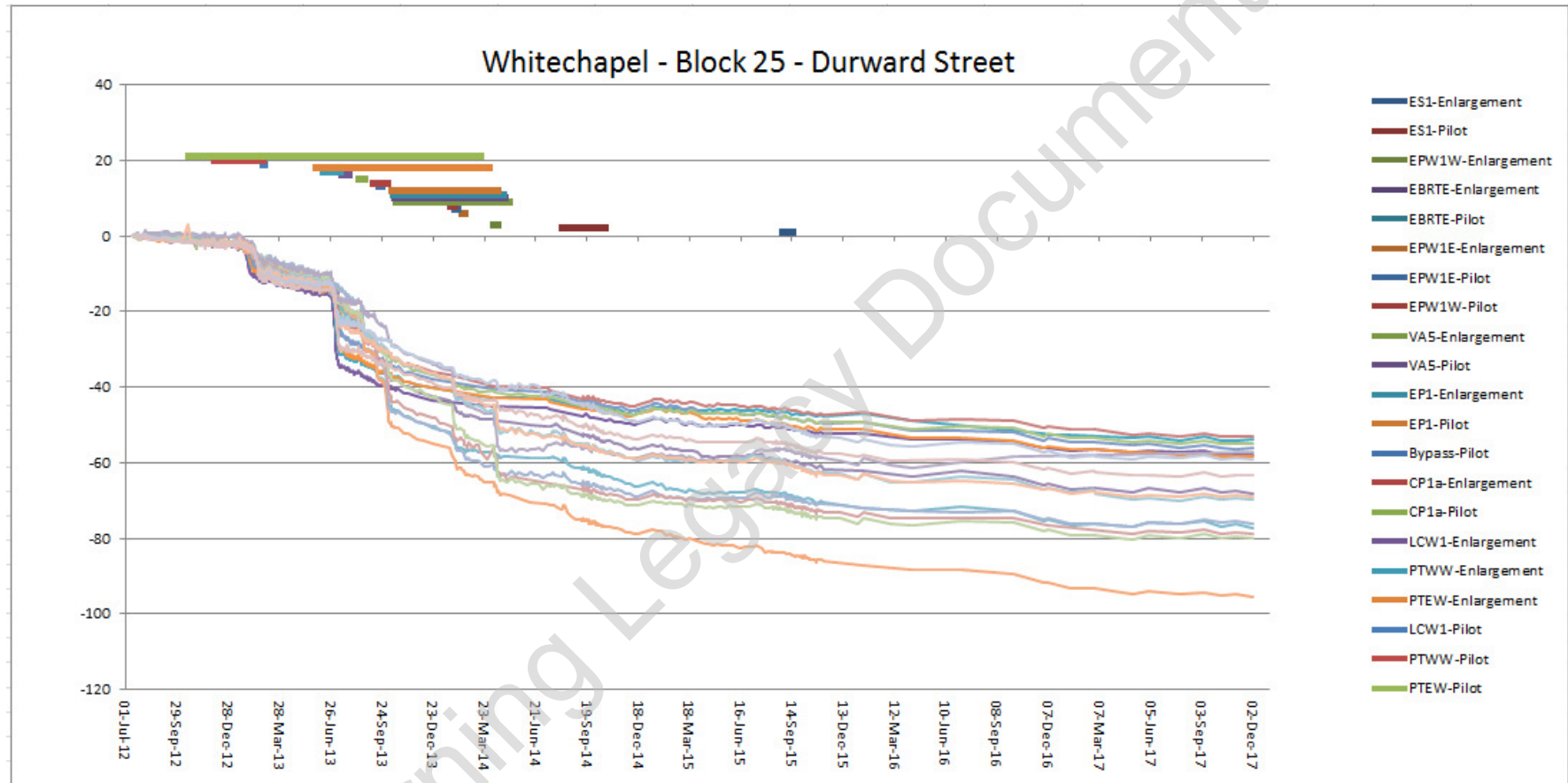




### 8.8.4 Block 25 - Section Configuration of the Road Stud Locations for Durward Street



8.8.5 Block 25 – Outstanding Monitoring Sensors displayed with the Construction Activities



8.8.6 Block 25 – Outstanding Monitoring Sensors Settlement Status Table

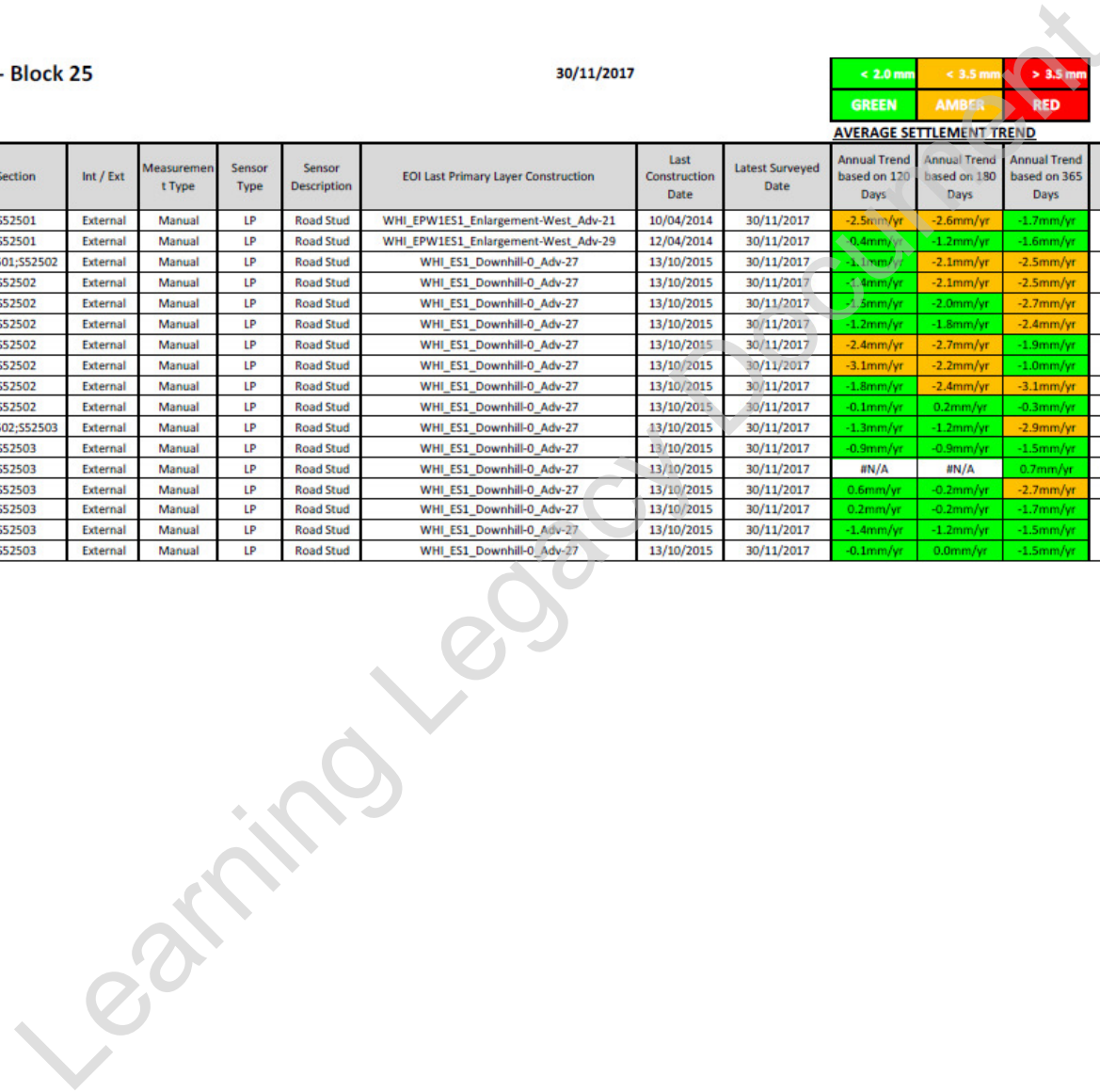
WHI Close Out Report - Block 25

30/11/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

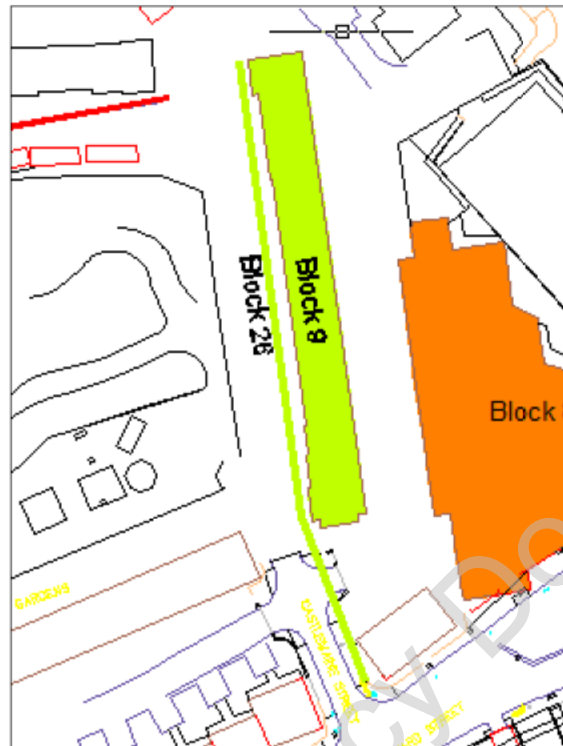
AVERAGE SETTLEMENT TREND

CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-IP52507	Block 525	S52501	External	Manual	LP	Road Stud	WHI_EPW1ES1_Enlargement-West_Adv-21	10/04/2014	30/11/2017	-2.5mm/yr	-2.6mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-IP52508	Block 525	S52501	External	Manual	LP	Road Stud	WHI_EPW1ES1_Enlargement-West_Adv-29	12/04/2014	30/11/2017	0.4mm/yr	-1.2mm/yr	-1.6mm/yr		Proposed
CS10-IP52509	Block 525	S52501;S52502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-2.1mm/yr	-2.1mm/yr	-2.5mm/yr	Stable 4 month trend	Proposed
CS10-IP52510	Block 525	S52502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-2.4mm/yr	-2.1mm/yr	-2.5mm/yr		Proposed
CS10-IP52511	Block 525	S52502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-2.5mm/yr	-2.0mm/yr	-2.7mm/yr	Stable 6 month trend	Proposed
CS10-IP52512	Block 525	S52502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-1.2mm/yr	-1.8mm/yr	-2.4mm/yr		Proposed
CS10-IP52513	Block 525	S52502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-2.4mm/yr	-2.7mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-IP52514	Block 525	S52502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-3.1mm/yr	-2.2mm/yr	-1.0mm/yr		Proposed
CS10-IP52515	Block 525	S52502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-1.8mm/yr	-2.4mm/yr	-3.1mm/yr	Stable 4 month trend	Proposed
CS10-IP52516	Block 525	S52502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-0.1mm/yr	0.2mm/yr	-0.3mm/yr	2mm per annum specification met	Proposed
CS10-IP52517	Block 525	S52502;S52503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-1.3mm/yr	-1.2mm/yr	-2.9mm/yr	Stable 6 month trend	Proposed
CS10-IP52518	Block 525	S52503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-0.9mm/yr	-0.9mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-IP52519	Block 525	S52503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	#N/A	#N/A	0.7mm/yr	Infrequent monitoring/ Stable 1y trend	Proposed
CS10-IP52520	Block 525	S52503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	0.6mm/yr	-0.2mm/yr	-2.7mm/yr	Stable 6 month trend	Proposed
CS10-IP52521	Block 525	S52503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-0.2mm/yr	-0.2mm/yr	-1.7mm/yr		Proposed
CS10-IP52522	Block 525	S52503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-1.4mm/yr	-1.2mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-IP52523	Block 525	S52503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/11/2017	-0.1mm/yr	0.0mm/yr	-1.5mm/yr		Proposed



## 8.9. Block 26 Data Analysis

### 8.9.1 Block 26 Location Plan



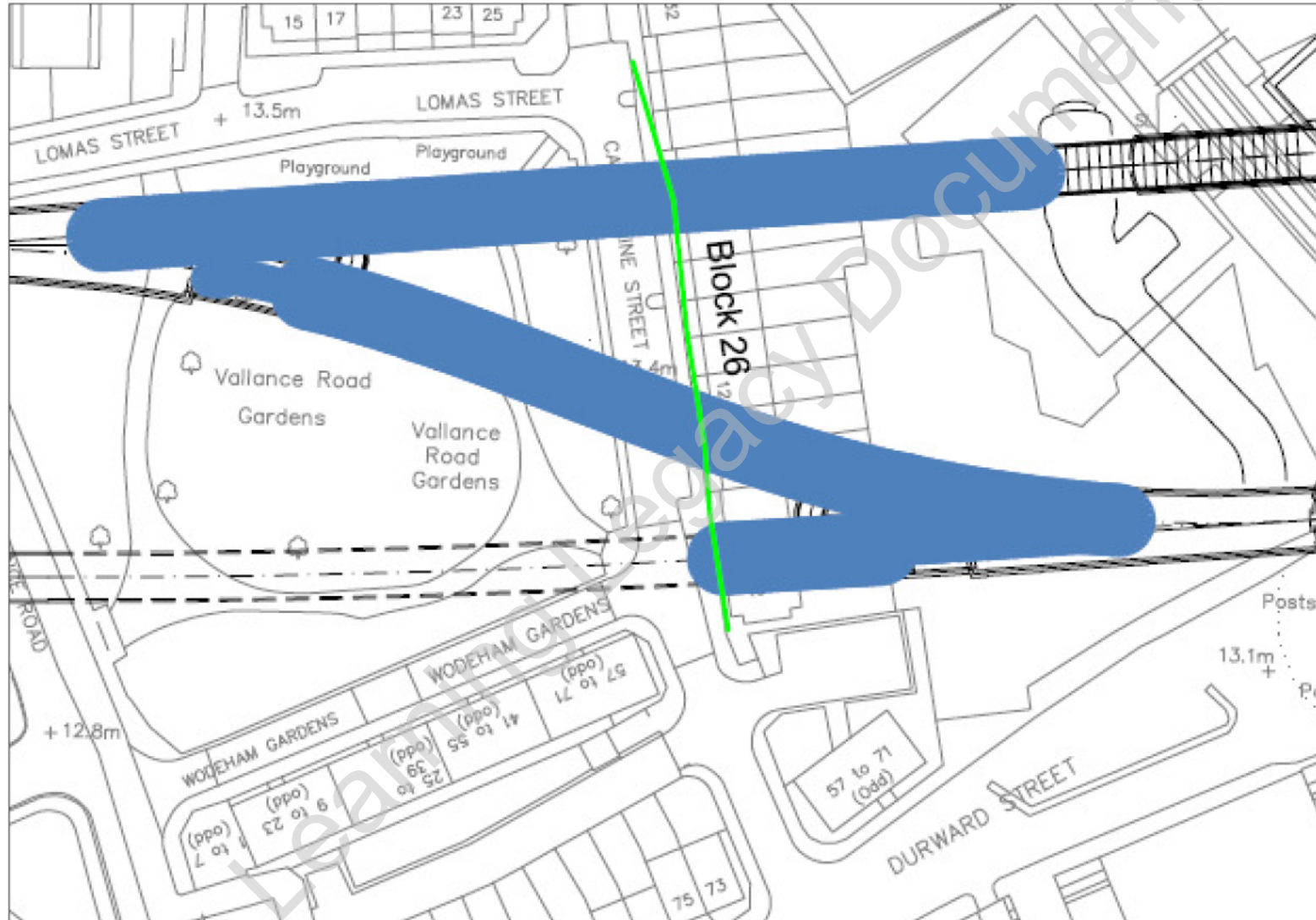
### 8.9.2 Block 26 Monitoring Sensors

The manual monitoring included in Block 26 consists of road studs installed along the eastern footpath of Castlemaine Street. The manual monitoring sensors were installed to measure vertical displacements during the construction works.

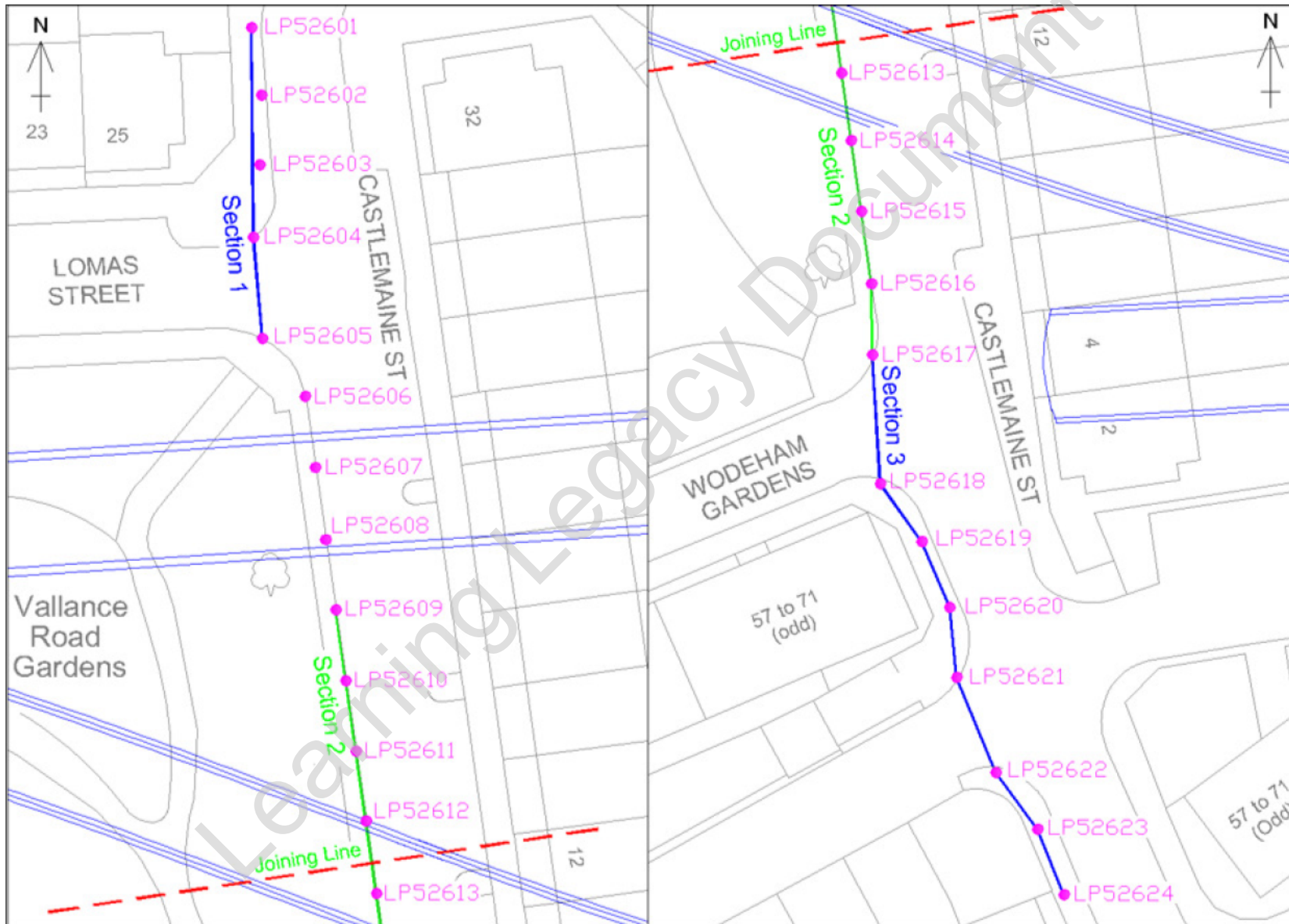
The manual monitoring included in Block 26 consists of 3 sections of road studs. All sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 26 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

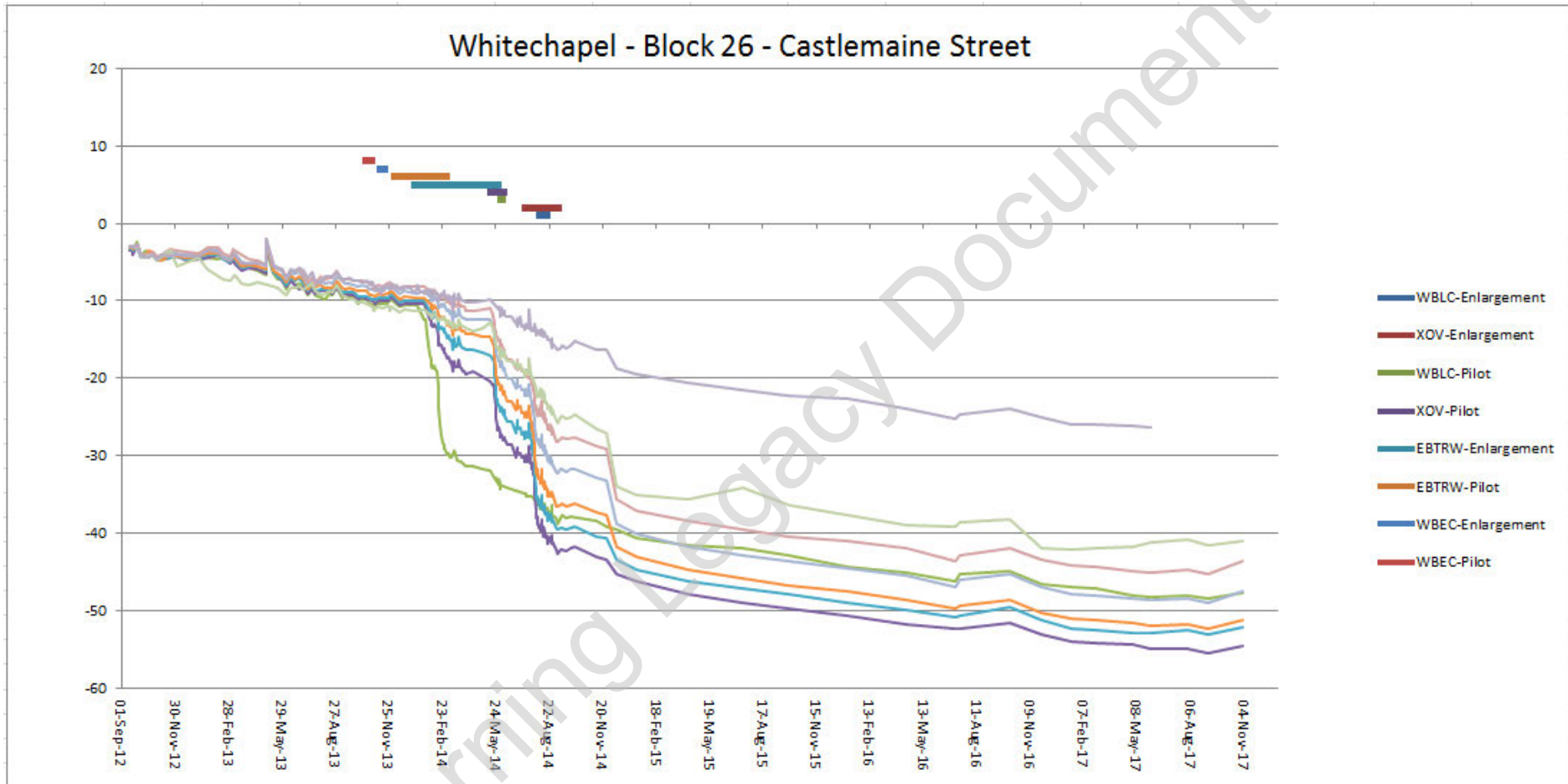
8.9.3 Block 26 - Plot to show Whitechapel Block 20 and the SCL Tunnels within the a 60m ZOI



### 8.9.4 Block 26 - Section Configuration of the Road Stud Locations for Castlemaine Street



8.9.5 Block 26 – Outstanding Monitoring Sensors displayed with the Construction Activities



## 8.9.6 Block 26 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 26

01/11/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

AVERAGE SETTLEMENT TREND

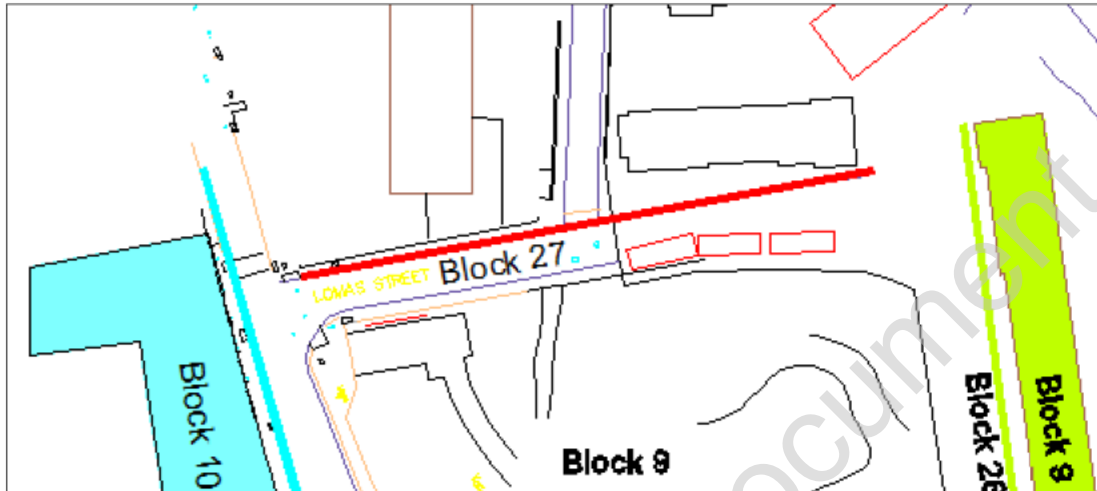
CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-LP52606	Block 526	S52601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	1.1mm/yr	0.4mm/yr	-2.6mm/yr	Stable 6 month trend	Proposed
CS10-LP52612	Block 526	S52602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	0.7mm/yr	-0.4mm/yr	-2.7mm/yr	Stable 6 month trend	Proposed
CS10-LP52613	Block 526	S52602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	1.5mm/yr	1.2mm/yr	-2.1mm/yr		Proposed
CS10-LP52614	Block 526	S52602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	1.4mm/yr	0.3mm/yr	-2.5mm/yr		Proposed
CS10-LP52615	Block 526	S52602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	2.2mm/yr	1.2mm/yr	-2.2mm/yr		Proposed
CS10-LP52616	Block 526	S52602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	2.9mm/yr	2.0mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52617	Block 526	S52602;S52603	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	01/11/2017	0.1mm/yr	1.0mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52620	Block 526	S52603	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	30/05/2017	-0.9mm/yr	-2.0mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed

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## 8.10. Block 27 Data Analysis

### 8.10.1 Block 27 Location Plan



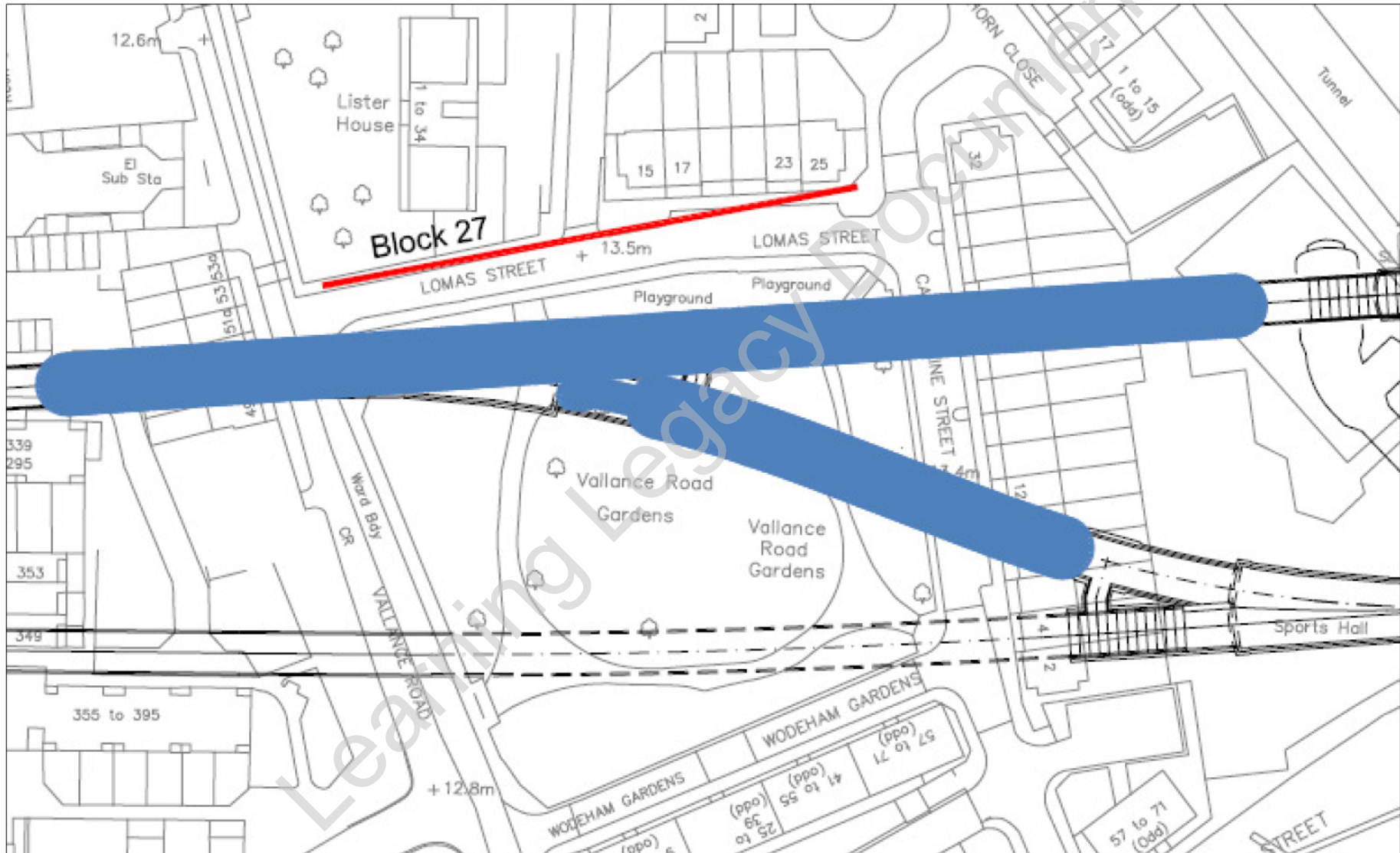
### 8.10.2 Block 27 Monitoring Sensors

The manual monitoring included in Block 27 consists of road studs installed along the Lomas Street and around Lister House. The manual monitoring sensors were installed to measure vertical displacements during the construction works.

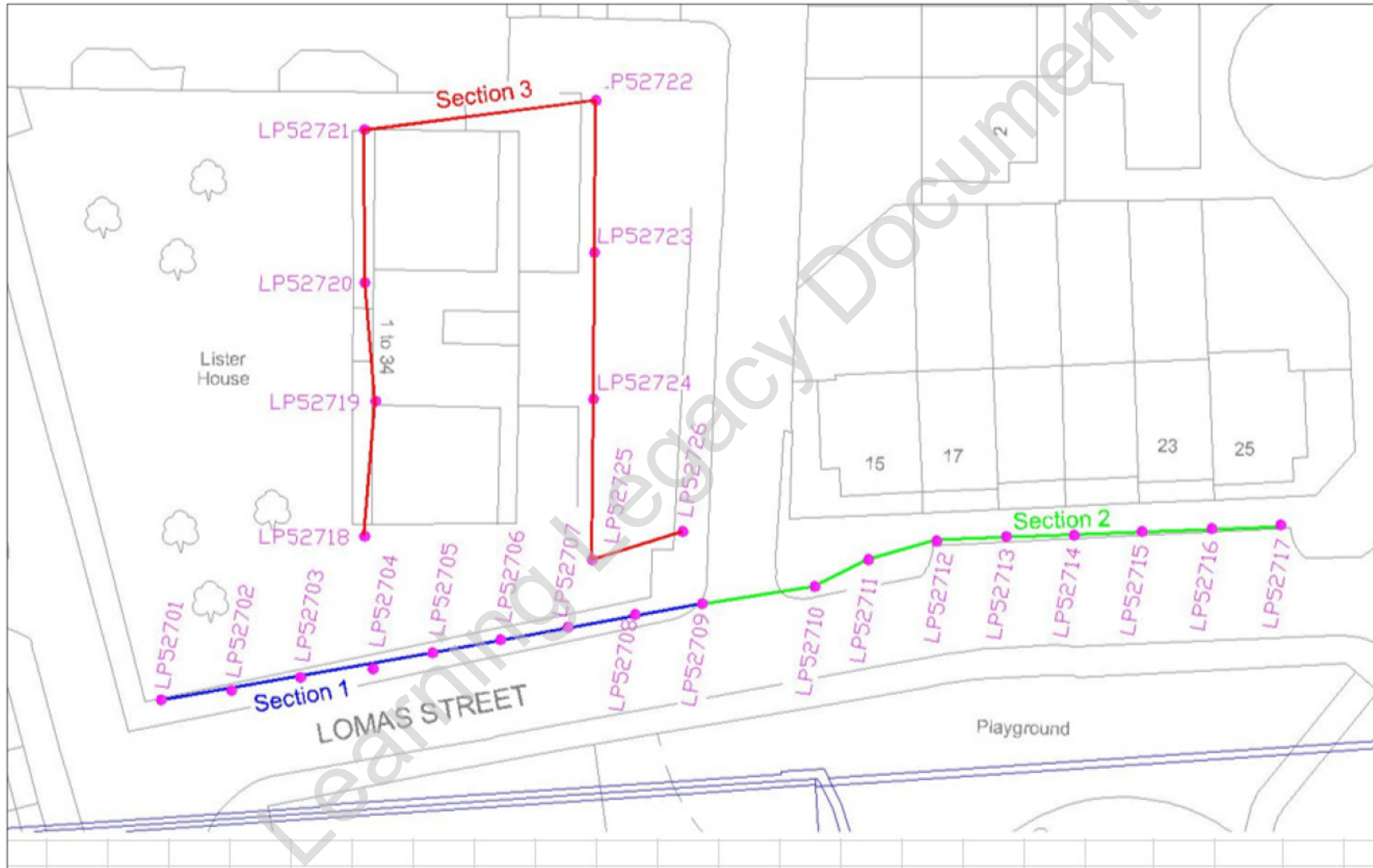
The manual monitoring included in Block 27 consists of 3 sections of road studs. All sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 27 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

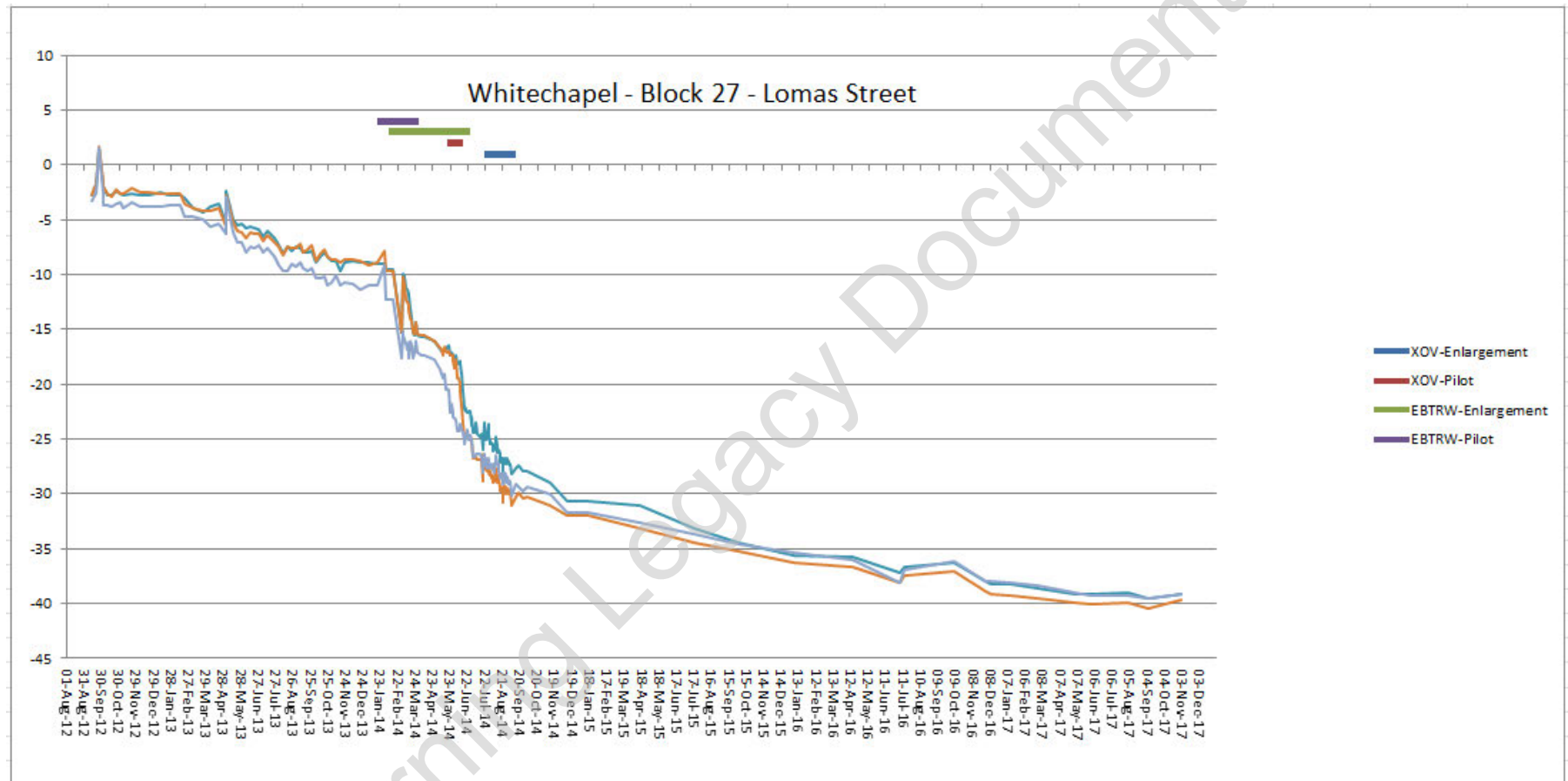
8.10.3 Block 27 - Plot to show Whitechapel Block 27 and the SCL Tunnels within the a 60m ZOI



### 8.10.4 Block 27 - Section Configuration of the Road Stud Locations for Lomas Street



8.10.5 Block 27 – Outstanding Monitoring Sensors displayed with the Construction Activities



## 8.10.6 Block 27 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 27

01/11/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

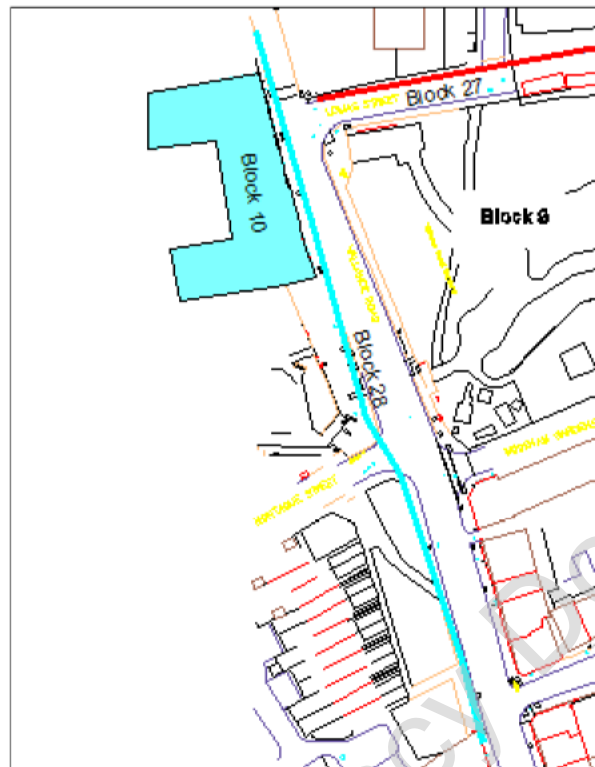
## AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LP52701	Block 527	S52701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Ash-9	14/09/2014	01/11/2017	-3.3mm/yr	-0.3mm/yr	-2.2mm/yr	Stable 6 month trend	Proposed
C510-LP52703	Block 527	S52701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Ash-9	14/09/2014	01/11/2017	0.5mm/yr	0.2mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
C510-LP52710	Block 527	S52702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Ash-9	14/09/2014	01/11/2017	0.1mm/yr	-0.3mm/yr	-2.4mm/yr	Stable 6 month trend	Proposed

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## 8.11. Block 28 Data Analysis

### 8.11.1 Block 28 Location Plan



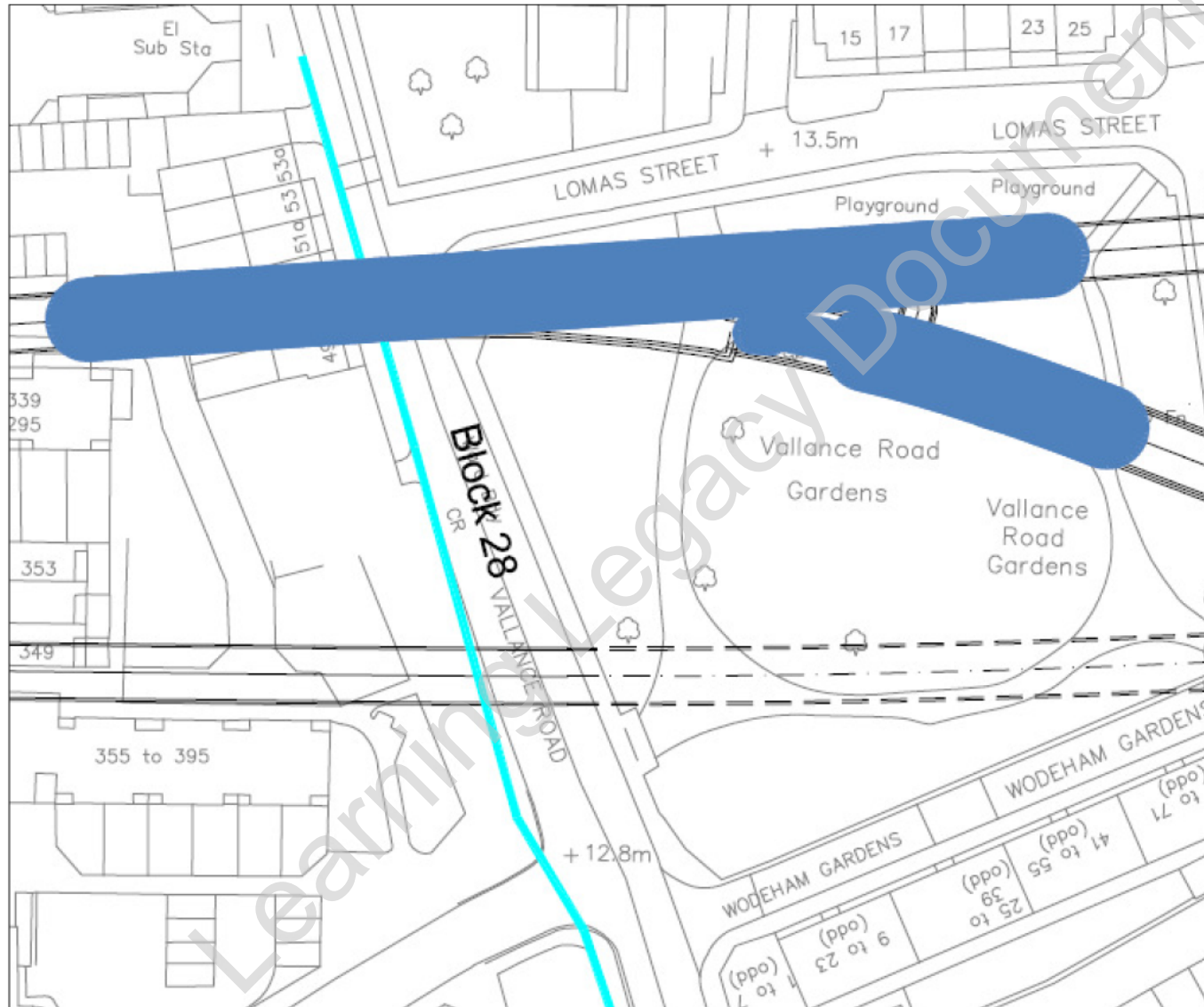
### 8.11.2 Block 28 Monitoring Sensors

The manual monitoring included in Block 28 Vallance Road consists of road studs running from the south to the north along the western footpath. The manual monitoring sensors were installed to measure vertical displacements during the construction works.

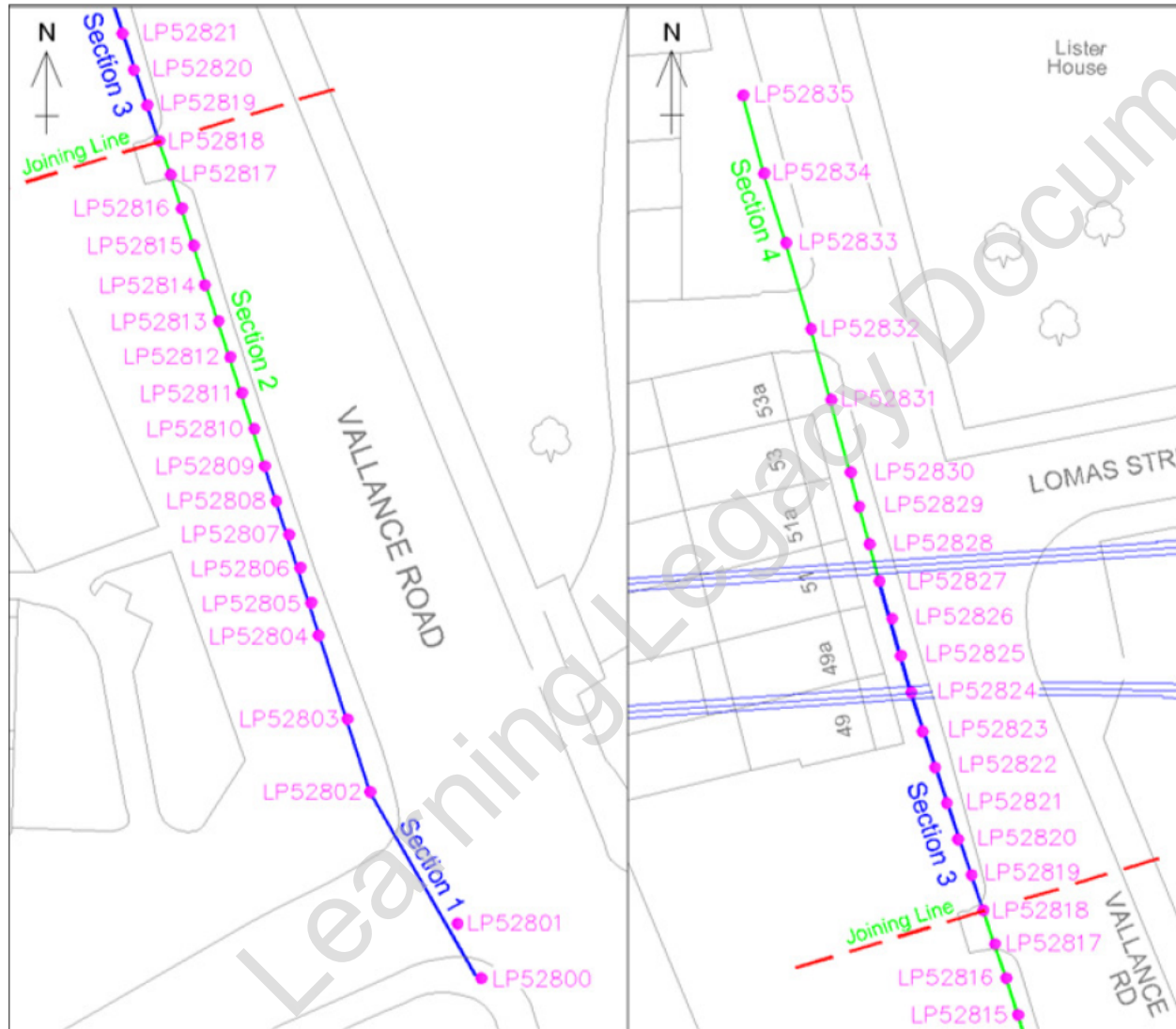
The manual monitoring included in Block 28 consists of 4 sections of road studs. All sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Block 28 is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

8.11.3 Block 28 - Plot to show Whitechapel Block 28 and the SCL Tunnels within the a 60m ZOI

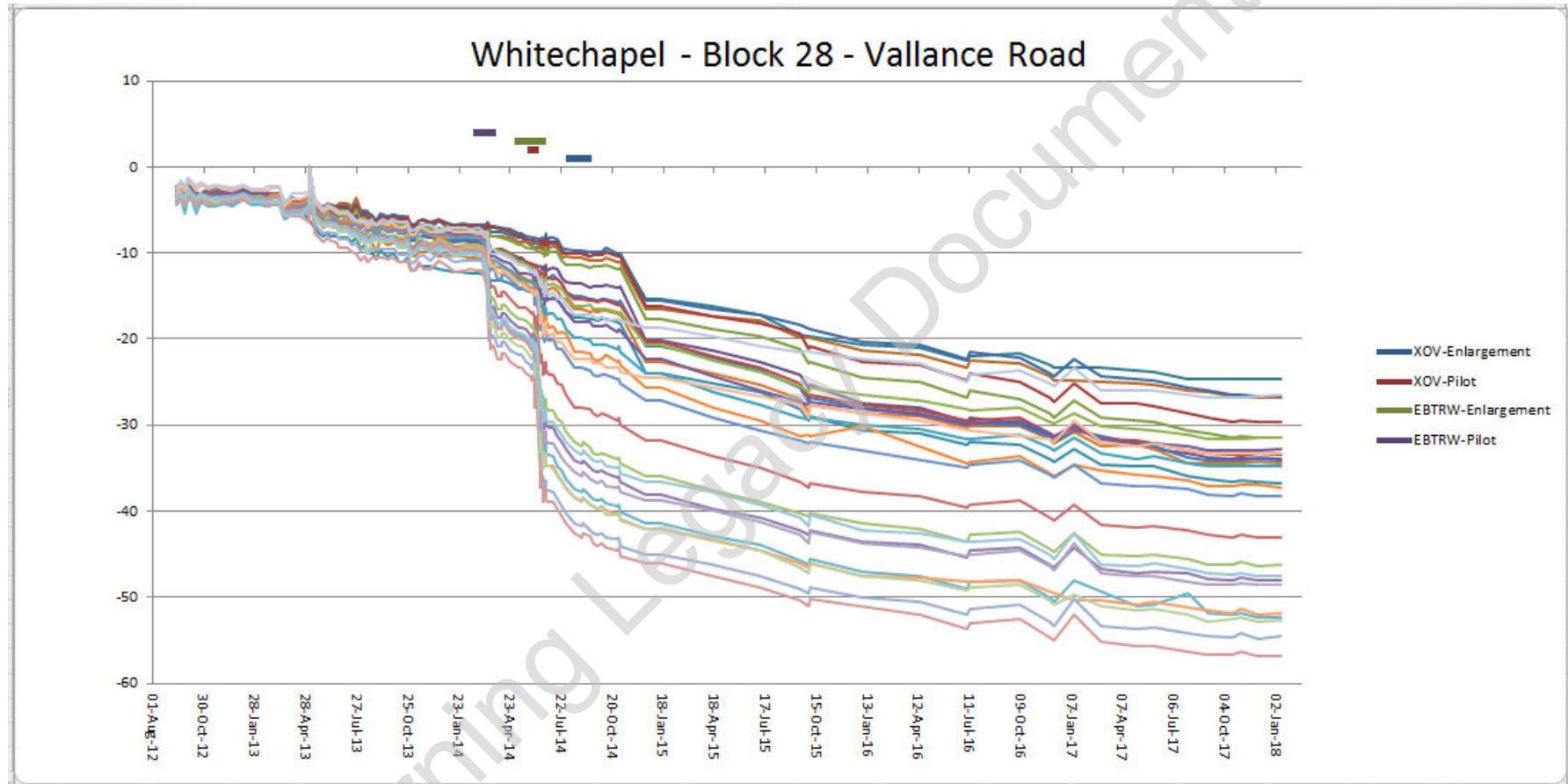


8.11.4 Block 28 - Section Configuration of the Road Stud Locations for Vallance Road





8.11.5 Block 28 – Outstanding Monitoring Sensors displayed with the Construction Activities



8.11.6 Block 28 – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block 28

10/01/2018

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LP52804	Block 528	S52801	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-5	11/09/2014	10/01/2018	-0.1mm/yr	-0.2mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
C510-LP52805	Block 528	S52801	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-8	13/09/2014	10/01/2018	-1.6mm/yr	-2.6mm/yr	-2.2mm/yr	Stable 4 month trend	Proposed
C510-LP52806	Block 528	S52801	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-1.9mm/yr	-3.1mm/yr	-3.3mm/yr		Proposed
C510-LP52807	Block 528	S52801	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-1.9mm/yr	-3.1mm/yr	-3.5mm/yr		Proposed
C510-LP52808	Block 528	S52801	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-1.0mm/yr	-2.9mm/yr	-3.3mm/yr	Stable 6 month trend	Proposed
C510-LP52809	Block 528	S52801/S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.4mm/yr	-1.8mm/yr	-3.0mm/yr		Proposed
C510-LP52810	Block 528	S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-1.0mm/yr	-2.9mm/yr	-3.2mm/yr	Stable 4 month trend	Proposed
C510-LP52811	Block 528	S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.1mm/yr	-2.2mm/yr	-3.2mm/yr		Proposed
C510-LP52812	Block 528	S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	0.2mm/yr	-2.3mm/yr	-3.1mm/yr		Proposed
C510-LP52813	Block 528	S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	0.0mm/yr	-2.1mm/yr	-2.8mm/yr	Stable 6 month trend	Proposed
C510-LP52814	Block 528	S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	0.7mm/yr	-1.4mm/yr	-2.3mm/yr		Proposed
C510-LP52815	Block 528	S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	0.6mm/yr	-1.1mm/yr	-2.2mm/yr		Proposed
C510-LP52816	Block 528	S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	0.3mm/yr	-1.6mm/yr	-2.5mm/yr	Stable 6 month trend	Proposed
C510-LP52817	Block 528	S52802	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.2mm/yr	-1.9mm/yr	-2.1mm/yr		Proposed
C510-LP52818	Block 528	S52802/S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.6mm/yr	-2.0mm/yr	-2.8mm/yr	Stable 4 month trend	Proposed
C510-LP52819	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.9mm/yr	-2.3mm/yr	-2.7mm/yr		Proposed
C510-LP52821	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.4mm/yr	-2.0mm/yr	-2.5mm/yr	Stable 6 month trend	Proposed
C510-LP52822	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.9mm/yr	-1.9mm/yr	-2.3mm/yr		Proposed
C510-LP52823	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-1.3mm/yr	-3.6mm/yr	-2.8mm/yr	Stable 4 month trend	Proposed
C510-LP52824	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.8mm/yr	-2.1mm/yr	-2.6mm/yr		Proposed
C510-LP52825	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.2mm/yr	-1.6mm/yr	-2.6mm/yr	Stable 6 month trend	Proposed
C510-LP52826	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	10/01/2018	-0.7mm/yr	-1.8mm/yr	-2.9mm/yr		Proposed
C510-LP52828	Block 528	S52804	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-8	13/09/2014	10/01/2018	0.0mm/yr	-2.1mm/yr	-2.4mm/yr	Stable 4 month trend	Proposed
C510-LP52829	Block 528	S52804	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-6	13/09/2014	10/01/2018	0.2mm/yr	-1.5mm/yr	-2.9mm/yr	Stable 6 month trend	Proposed
C510-LP52830	Block 528	S52804	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-5	11/09/2014	10/01/2018	-0.9mm/yr	-2.2mm/yr	-3.0mm/yr	Stable 4 month trend	Proposed
C510-LP52832	Block 528	S52804	External	Manual	LP	Road Stud	WHL_CAVE_Full-0_Adv-58	23/08/2014	10/01/2018	-0.3mm/yr	-1.8mm/yr	-2.5mm/yr	Stable 6 month trend	Proposed
C510-LP52833	Block 528	S52804	External	Manual	LP	Road Stud	WHL_CAVE_Full-0_Adv-47	15/08/2014	10/01/2018	0.9mm/yr	-0.7mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed

Note: Trends in Valance road are possibly affected by previous excavations

## 8.12. Block Hanbury Street Data Analysis

### 8.12.1 Block Hanbury Street Location Plan



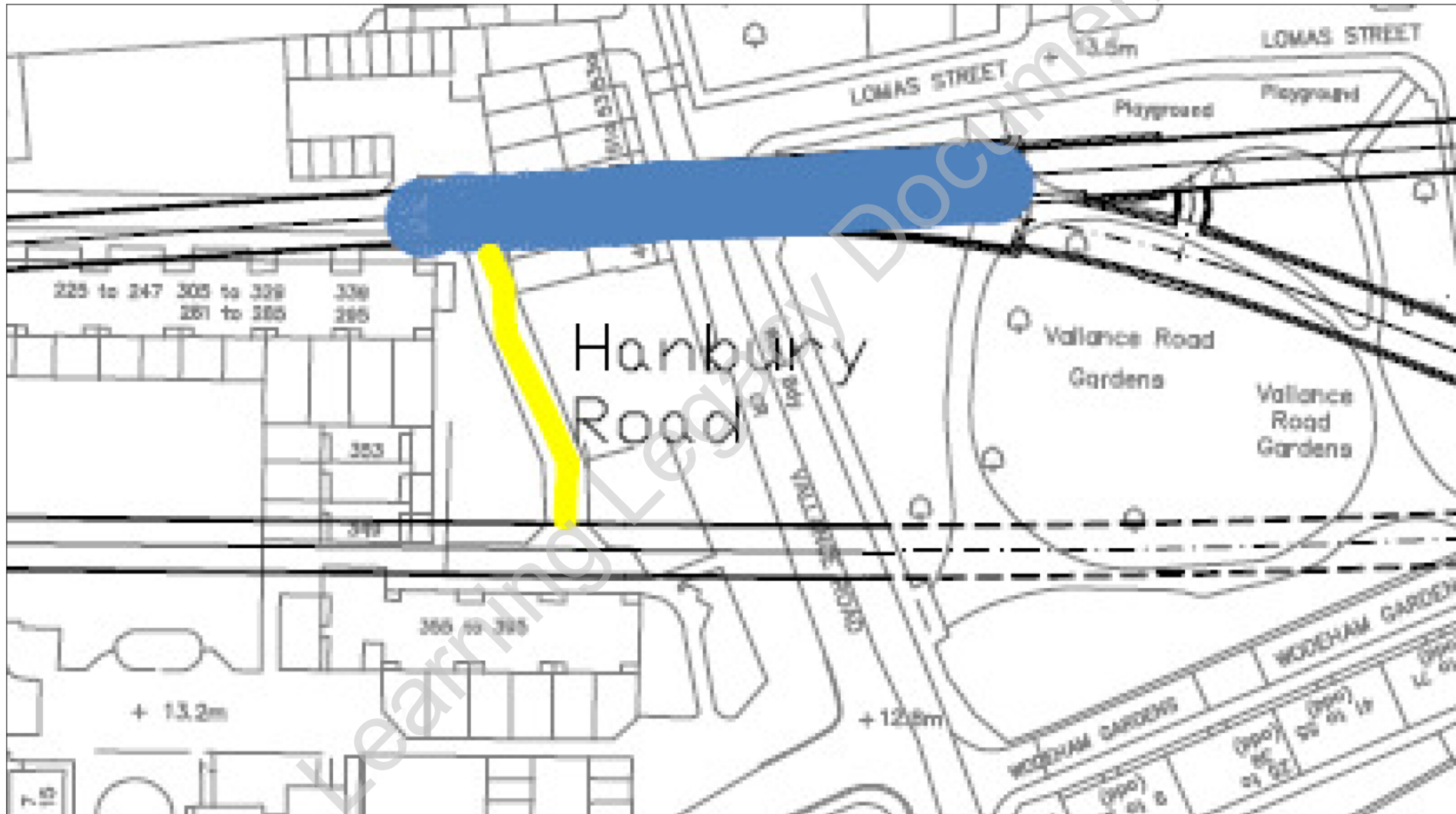
### 8.12.2 Block Hanbury Street

The monitoring sensors within Whitechapel Hanbury Street consists of 1 section of BRE's installed into the façades, and the array of road studs installed into the footpath. The road stud array is divided into 2 sections. The manual monitoring sensors were installed to measure vertical displacements during the construction works.

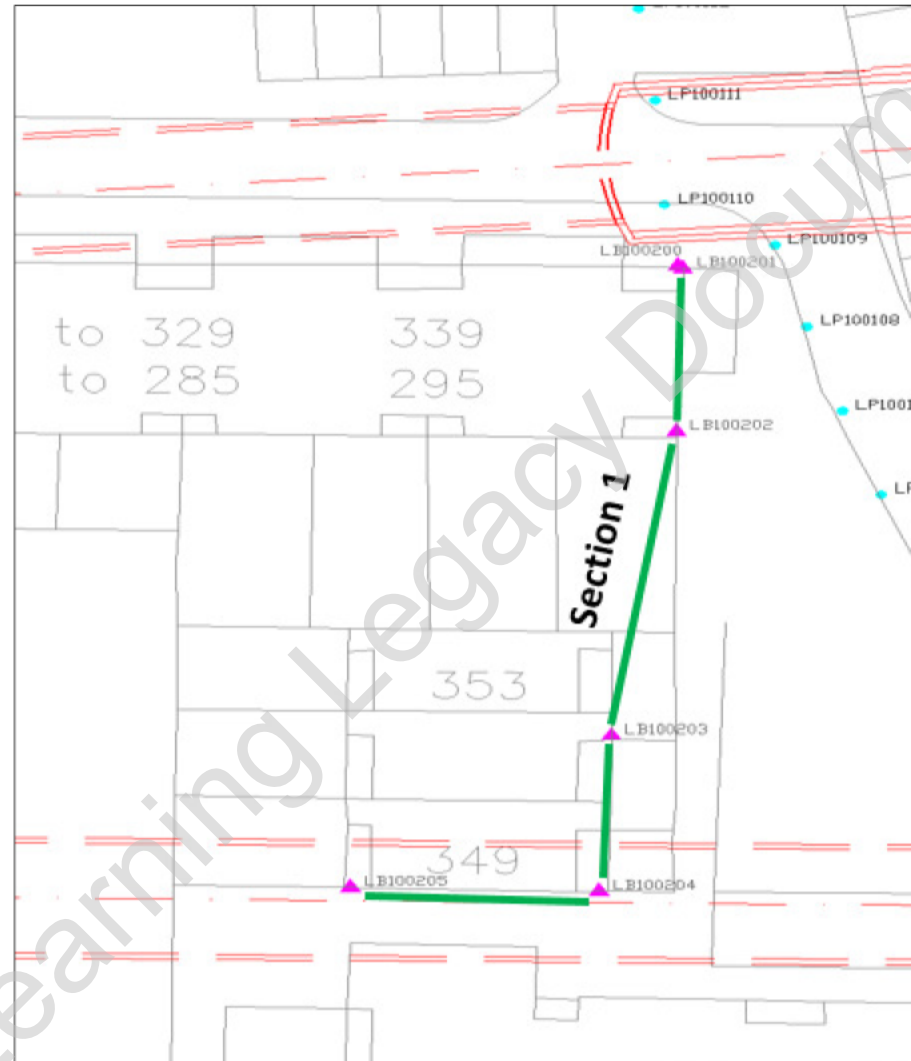
All sections were reviewed within revision 4 and proposals were made to decommission all sensors that met the CRL specification of 2mm/annum. BBMV have ceased monitoring all sensors proposed for decommissioning within revision 4. The revision 4 Settlement table and graphs for WHI Hanbury Street is referenced in appendix E.

The graph and the settlement table below is an assessment of the remaining sensors that had not met the CRL specification of 2mm/annum. The settlement table below includes the latest BBMV proposals using the latest monitoring data.

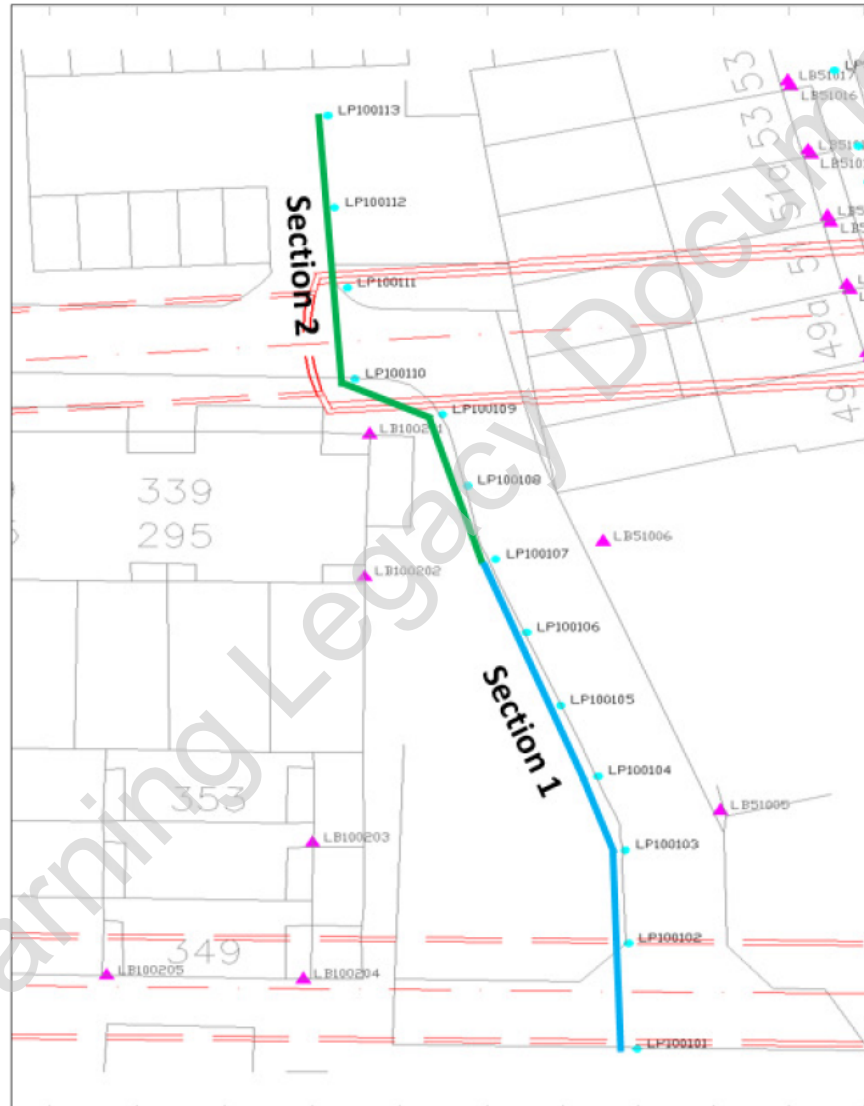
8.12.3 Hanbury Street - Plot to show Whitechapel Hanbury Street and the SCL Tunnels within the a 60m ZOI



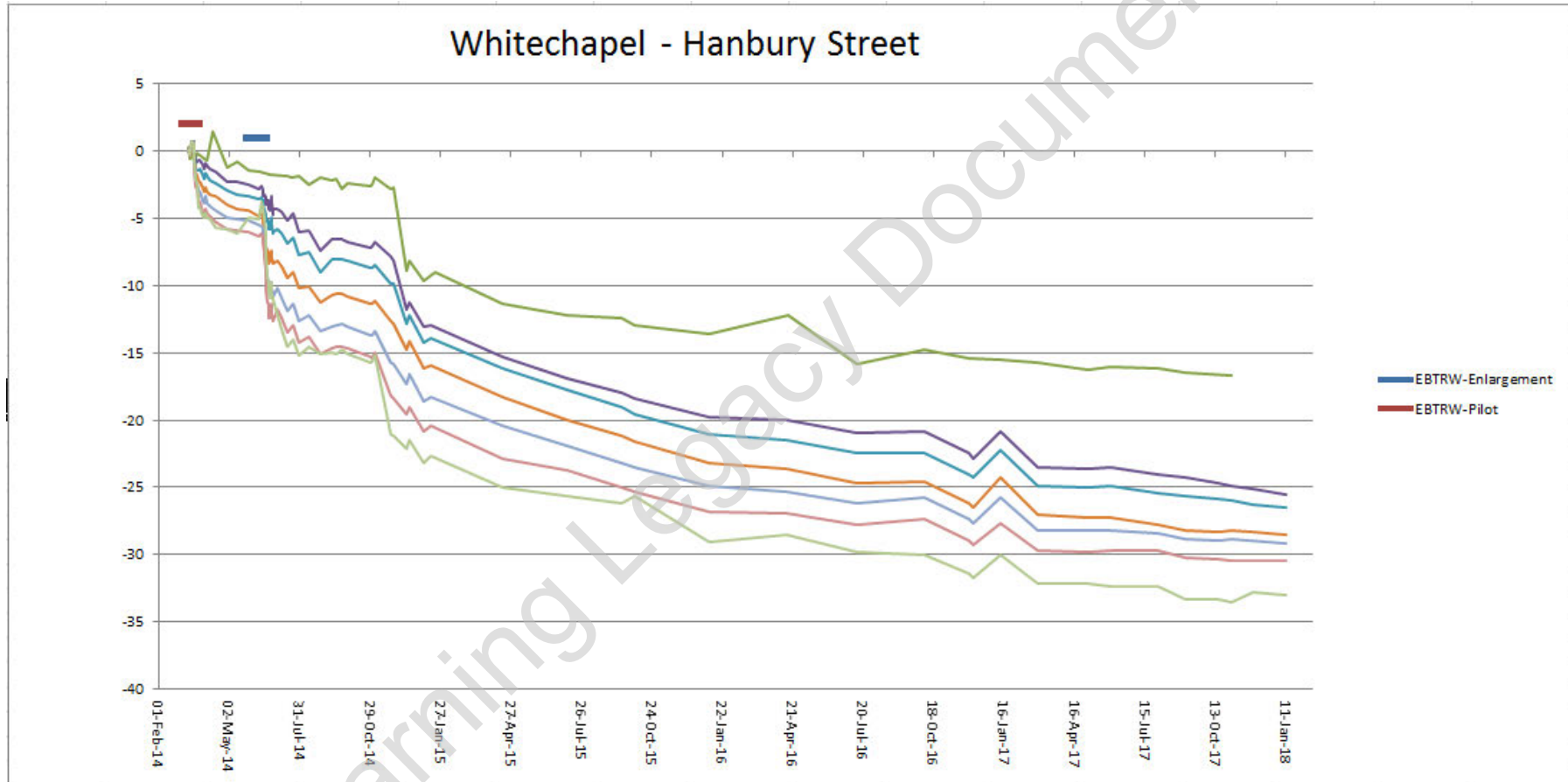
### 8.12.4 Block Hanbury Street - Section Configuration of the BRE Locations for Hanbury Street



### 8.12.5 Block Hanbury Street - Section Configuration of the Road Stud Locations for Hanbury Street



8.12.6 Block Hanbury Street – Outstanding Monitoring Sensors displayed with the Construction Activities



## 8.12.7 Block Hanbury Street – Outstanding Monitoring Sensors Settlement Status Table

WHI Close Out Report - Block Hanbury Street

10/01/2018

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LB100205	Hanbury St	S51051	External	Manual	LB	BRE	WHI_CAVE_Invert-Right_Adv-273	19/06/2014	02/11/2017	-1.2mm/yr	-1.1mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
C510-LP100104	Hanbury St	S51051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	10/01/2018	-3.4mm/yr	-3.3mm/yr	-3.0mm/yr	Studs are on a curb which is the entrance of a car park. Therefore cars are continually driving over the points and affecting the trends. Supplementary evidence supplied.	Proposed
C510-LP100105	Hanbury St	S51051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	10/01/2018	-2.4mm/yr	-2.6mm/yr	-2.8mm/yr		Proposed
C510-LP100106	Hanbury St	S51051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	10/01/2018	-0.6mm/yr	-1.8mm/yr	-2.8mm/yr	Stable 6 month trend	Proposed
C510-LP100107	Hanbury St	S51051;S51052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	10/01/2018	-0.9mm/yr	-1.7mm/yr	-2.1mm/yr	Stable 6 month trend	Proposed
C510-LP100108	Hanbury St	S51052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	10/01/2018	-0.9mm/yr	-1.5mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
C510-LP100111	Hanbury St	S51052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-12	23/07/2014	10/01/2018	-1.3mm/yr	-1.2mm/yr	-2.1mm/yr	Stable 6 month trend	Proposed

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### 8.12.8 Supplementary Evidence

Please see Monitoring Sensors Settlement Status Table for details about the Supplementary evidence shown below.

Monitoring Points LP100104 and LP100105.



## 9. Decommissioning Approval

In order to control the removal of the monitoring sensors at Whitechapel and to prevent early decommissioning especially to those sensors that have been installed for 3<sup>rd</sup> party assets were Crossrail require agreement from the asset owners, it has been agreed that regular ERP Monitoring Meeting will be held between BBMV and Crossrail. The meetings will assess individual monitoring sensor groups and a tabular log will be kept to note the sensor groups that have been agreed to either be decommissioned or require further monitoring. Crossrail will base their decision for the requirement of monitoring based upon whether long term monitoring can be accurately achieved through InSAR or whether acceptable small rates or specified rates of movement have been achieved.

The table (Appendix A) provides a record that approval has been agreed between both parties and once decommissioning is agreed the monitoring will cease in preparation to decommission. This document will be revised when further agreements within the ERP Monitoring Meeting to cease monitoring are reached, and the Close Out report will be resubmitted with the changes.

This report is to be approved by Crossrail and after approval all proposed sensors will be accepted as agreed to decommission and decommissioning can be commenced on site. If there are any sensors that have met the long term settlement criteria and therefore been proposed by C510 but Crossrail still require the sensors to be monitored then C510 would require an instruction from Crossrail.

**Appendix A** includes the table from the ERP Monitoring meeting and provides details of the sensor group statuses and whether agreement has been met to either decommission or to continue monitoring.

**Appendix B** includes a listing of the C510 WHI Layout of Tunnel References

**Appendix C** includes the graphs and tables for the crackmeters and the tiltmeters at Blind Beggar Wall Block 04 WHI.

**Appendix C** includes the WHI C510 Extensometers and Inclinometers Status

**Appendix E** includes a listing of the sensors' statuses from revision 4. All the sensors that had been PROPOSED in revision 4 were accepted. All the sensors that had been OUTSTANDING are proposed in this document (revision 6).

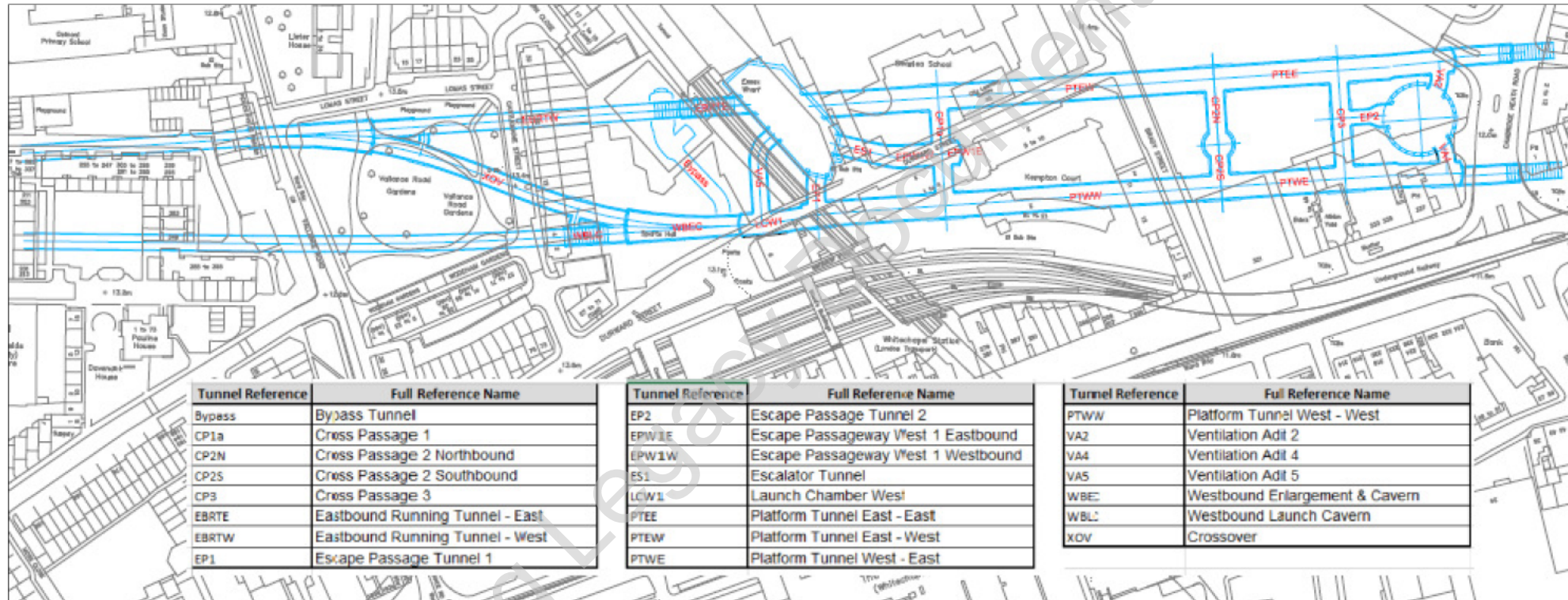


Appendix A ERP Monitoring Meeting 15/05/2016 – Decommissioning Sensor Group Listing

Whitechapel Approval to Decommission Monitoring											
Block No.	Location / Asset	Instrument Type	trend	Mitigation co	Comment	BBMV Movement	BBMV Comments	Decommission (Y/N)	Period Checked	ERP Comments	Approval Date
Buildings											
Block 1	Swanlea School	BRE's (sections 3-7)	<2mm/year		U&A 0190	Section 3 Agree <2mm Section 4 Agree <2mm Section 5 covered since Apr 2014 Section 6 Agree <2mm Section 7 Agree <2mm	Agree, sections 3-7 to decommission	Y	Mar 2015 - Mar 2016	Decommission	10/03/2016
	Swanlea School	Prisms	Refer to BRE's		Use BRE's	<2mm/yr	Decommission	Y	Past 12 months	Decommission Not required for jacks	10/03/2016
Block 2	Swanlea School East St	Water cells with XR	NA	Already decommissioned				Y		Already decommissioned	10/03/2016
	Sainsburg's Car Park	Invars & BRE (S2&3)	~2mm/year		U&A 0190 (potentially subject to redevelopment)	Section 2 = 2-3mm/yr Section 3 agree <2mm/yr	Sent PDF (TBC) - 14.03.2016	Y	Mar 2015 - Mar 2016	Decommission	10/03/2016
	Sainsburgs	Invars	~2mm/year			<2mm/yr	Decommission	Y	Jan 2015- Jan 2017	Decommission	10/03/2016
	Sainsburgs	Retros	~2mm/year			2-3mm/yr		Y	Jan 2015- Jan 2016	Decommission	10/03/2016
	Sainsburgs	Prisms	Refer to retros			Mostly <2mm/yr. Some ~2-3mm/yr. Appears data is missing for some prisms from January 2015.		Y	Past 12 months	Decommission	10/03/2016
	Sainsburg's Atrium	Prisms	3mm max movement over last year they were monitored.			BBMV decommissioned April 15		Do not know point ID reference to check trend	Y		Decommission
Block 3	Atrium Lift	BRE (s4)	<2mm/year			Agree <2mm/yr	Decommission	Y	Mar 2015 - Mar 2016	Decommission	10/03/2016
	Sainsburg's Main Building	BRE's (S1)	<2mm/year			Agree <2mm/yr	Decommission	Y	Mar 2015 - Mar 2016	Decommission	10/03/2016
Block 4	Cambridge Heath Road	BRE's	~1/2mm/year			Agree <2mm/yr	Decommission	Y	Mar 2015 - Mar 2016	Decommission	10/03/2016
Block 4	The Idea Store	Retros - internal	~2mm/year or less			Agree <2mm/yr	Decommission	Y	Dec 2014- Dec 2015	Decommission	10/03/2016
	The Idea Store	Retros - external	~2mm/year			Agree ~2mm/yr	Decommission	Y	Dec 2014- Dec 2016	Decommission	10/03/2016
	The Idea Store	Prisms	Refer to retros	Grouting decommissioned		Agree, mostly ~2mm/yr (4)	Decommission	Y	Past 12 months	Decommission	10/03/2016
Block 4	The Idea Store	Laser cells - internal	Refer to retros	Grouting decommissioned	Last data 21/10/2014		Do not know point ID reference to check trend	Y		Already decommissioned	10/03/2016
	Albion Brewery	BRE's (S2-8)				2mm/yr	Continue monitoring	Y		Now 2mm/yr. Decommission? 14/04/2016	14/04/2016
Block 4	Albion Brewery	Crackmeters (m)	To be decommissioned at			Stable	Decommission	Y	Dec 2015 - Dec 2016	To be decommissioned at same time as BRE's 14/04/2016	14/04/2016
	Albion Brewery	Prisms	Refer to BRE's	Grouting decommissioned		Agree, mostly ~2mm/yr (4)	Decommission	Y	Past 12 months	Decommission	10/03/2016
Block 4	Albion Brewery	Water cells - basement	Refer to retros	Grouting decommissioned		All water cells reviewed, all	Decommission	Y	Past 12 months	Decommission	10/03/2016
	Albion Brewery	Retros - basement	<2mm/year			Agree <2mm/yr	Decommission	Y		Decommission	10/03/2016
Block 4	Blind Beggar Pub	BRE's (S1)	~2mm/year or less			Agree ~2mm/yr	Decommission	Y	Jan 2015- Jan 2016	Decommission	10/03/2016
	Blind Beggar Pub	Prisms	Refer to BRE's	Grouting decommissioned		Agree, mostly ~2mm/yr (4)	Decommission	Y	Past 12 months	Decommission	10/03/2016
Block 4	Blind Beggar Wall	Prisms	~2mm/year or less	Propping frame		Agree, mostly ~2mm/yr (4)	Decommission	Y	Past 12 months	14.03.2016 Decommission	10/03/2016
Block 5	Kempton Court	BRE's (S1, 2, 7 and 8)	~2mm/year or less		U&A 0057	Agree, Section 1 <2mm/yr Agree, Section 2 <2mm/yr	Decommission	Y	Jan 2015- Jan 2016	Decommission	10/03/2016
	Kempton Court	Prisms	Refer to BRE's			Up to 5mm/yr	Continue monitoring	Y	Past 12 months	Decommission	10/03/2016
	Kempton Court	Prisms on W182	<2mm/8 months				14.03.2016 W182 and Winthrop St retaining walls - these can be decommissioned	Y		Decommission	10/03/2016
Block 7	Trinity Hall	Prisms	Up to 5mm/year on north facade		provided access to north face BRE monitoring is obtained	~2mm/yr	Decommission	Y	Past 12 months	Decommission 14.03.2016 Trinity Hall prisms - can only be decommissioned if access to north facade BRE's is obtained and data shows similar situation to the prisms.	10/03/2016
Block 8	The Sports Centre	Prisms	Refer to BRE's			<5mm/yr	Decommission	Y	Past 12 months	Decommission	10/03/2016
	Sports Fitch	Studs		Already decommissioned			Agreed, last surveyed 04/09/2016. New	Y		Already decommissioned	10/03/2016
Block 9	The Sports Centre	Prisms	Refer to BRE's			~2mm/yr	Decommission	Y	Past 12 months	Decommission	10/03/2016
Block 10	The Sports Centre	Prisms	Refer to BRE's			<5mm/yr	Continue monitoring	Y	Past 12 months	Decommission	10/03/2016
	C510 W/1 - back of station & Ticket Hall	Prisms	<2mm/year		Not read since 11/02/16		C122 stated "C512 informed on 10/03/2016 of imminent decommissioning"	Y		Decommission	10/03/2016
C510	Winthrop Street - Retaining wall (W179/W181)	Prisms	<2mm/year		U&A - 0137		14.03.2016 W182 and Winthrop St retaining walls - these can be decommissioned	Y		Decommission	10/03/2016

Block No.	Location	trend	Mitigation co	Comment	Movement	BBMV Comments	Decommission (Y/N)	Period Checked	ERP 10.03.2016	ERP 10.03.2016
Block 3	Cambridge Heath Road (west) <b>CRITICAL ASSET = 12 in CI main</b>	~2mm/year			Agree <2mm/yr	Decommission	Y	Mar 2015 - Mar 2016	Decommission	10/03/2016
Block 4	Albion Brewery	Up to 3mm/year (generally <2mm/year)		Not required, no grouting decommissioned	Agree ~3mm/yr		Y	Jan 2015 - Jan 2016	Decommission	10/03/2016
Block 4	Whitechapel Road	Roadstuds			Stopped monitoring in Au	Road studs destroyed in road c	Y		Decommission	10/03/2016
Block 5	Kempton Court (S1,3, 5 and 6)	Stable or ~2mm/year		Some have not been	Section 1 = 2-3mm/yr	Graphs were not displaying all	Y	Jan 2015 - Jan 2016	Decommission	10/03/2016
	Kempton Court (S2 & 7)	Some have not been read for some time. S8 needed for NESRS monitoring.			Section 2 = 2-3mm/yr Section 7 = 2-4mm/yr		Y	Jan 2015 - Jan 2016	InSAR? 14/04/2016	
Block 6	Woods Building (All)	~2mm/year			Agree, <2mm/yr	Decommission	Y	Jan 2015 - Jan 2016	Decommission	14/04/2016
Block 7	C512 site - Durward Street	~2mm/year		No access	2mm/yr	All points within C512 site. No longer monitored. No access, therefore decommission. 14.03.2016 - C512 sent latest data ~2mm/yr July 2014 - July	Y	Feb 2014 - July 2015	C512 can no longer survey as roadstuds are covered by containers and materials. 15.03.2016 C122 Agreed to Decommission	10/03/2016
Block 9	Vallance Road Gardens & Castlemain Street	Section 2, 3 & 7	Many sections stabilising		Up to 4mm/yr	Continue monitoring	Y		No utilities. Decommission 14.04.2016	14/04/2016
Block 21	Whitechapel Road	Section 1, 2 & 4	Local variances		<2mm/year		Y		Decommission 14.04.2016	14/04/2016
	Whitechapel Road <b>CRITICAL ASSET = 15in &amp; 20 in, CI main</b>	Section 3	Local variances		3.5mm/yr. Last 7 months data shows trend <2mm/yr		Y		S3 is located in area adjacent to previous roadworks, which could have affected settlement. Recent trends shows stability over last 7months. Decommission	14/04/2016
Block 22	Whitechapel Road <b>CRITICAL ASSET = Holloway Storm Relief Sewer &amp; 15in/9in CI main</b>	<2mm/year		Many points not read	<2mm/yr Most points destroyed from road works	Decommission	Y	Oct 2014 - Oct 2015	Decommission	10/03/2016
Block 23	Sainsburgs Poundabout	~2mm/year			Agree <2mm/yr	Decommission	Y	Mar 2015 - Mar 2016	Decommission	10/03/2016
Block 24	Cambridge Heath Road (east) <b>CRITICAL ASSET = 20in CI Main (S3 &amp; 4) and Mile End CI Main (S1)</b>	~2mm/year		C122 to liaise with Thames Water	Section 1 = 2-3mm/yr Section 2+3 <2mm/yr	Decommission	Y	Mar 2015 - Mar 2016	Decommission	10/03/2016
Block 27	Lomas Street	Section 3	<2mm/yr			Continue monitoring	Y		Decommission 14.04.2016	14/04/2016
C305?	Crossrail Sparse Points - Vallance Road		Installed by C305?		4mm/yr		Y		Essentially repeated by Block 9 Sec 4. Decommission 14.04.2016	14/04/2016

## Appendix B WHI Layout of Tunnel References





**Appendix C Block 04 Blind Beggar Wall Crackmeters and Tiltmeters**

Learning Legacy Document

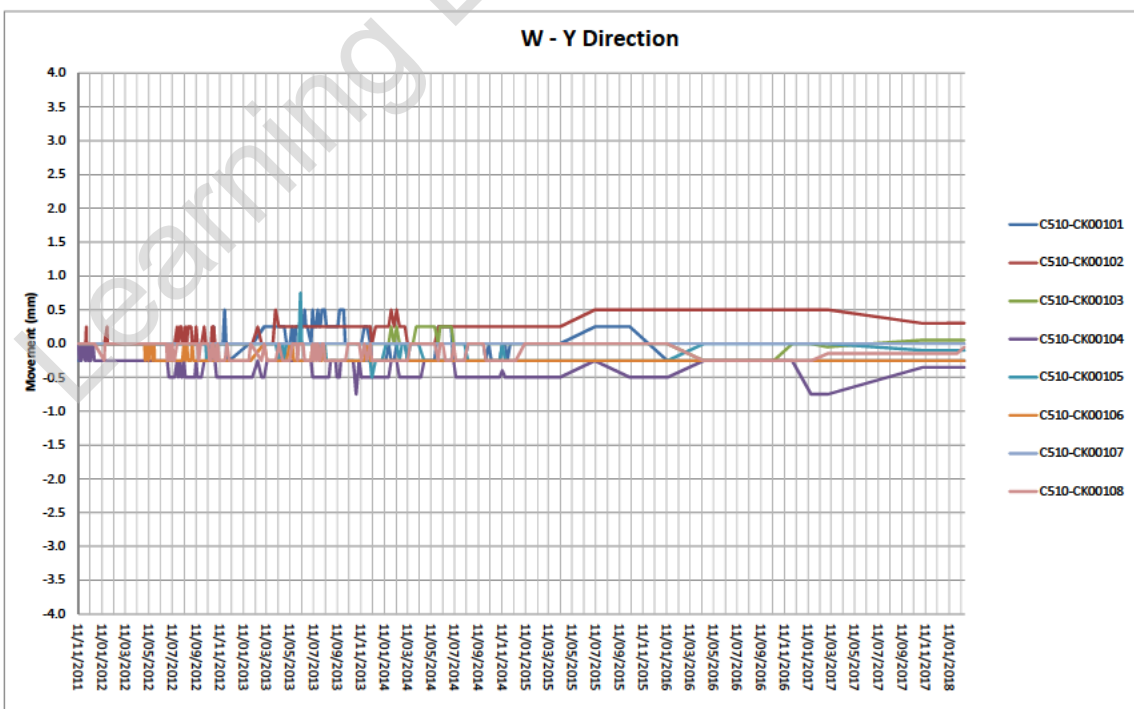
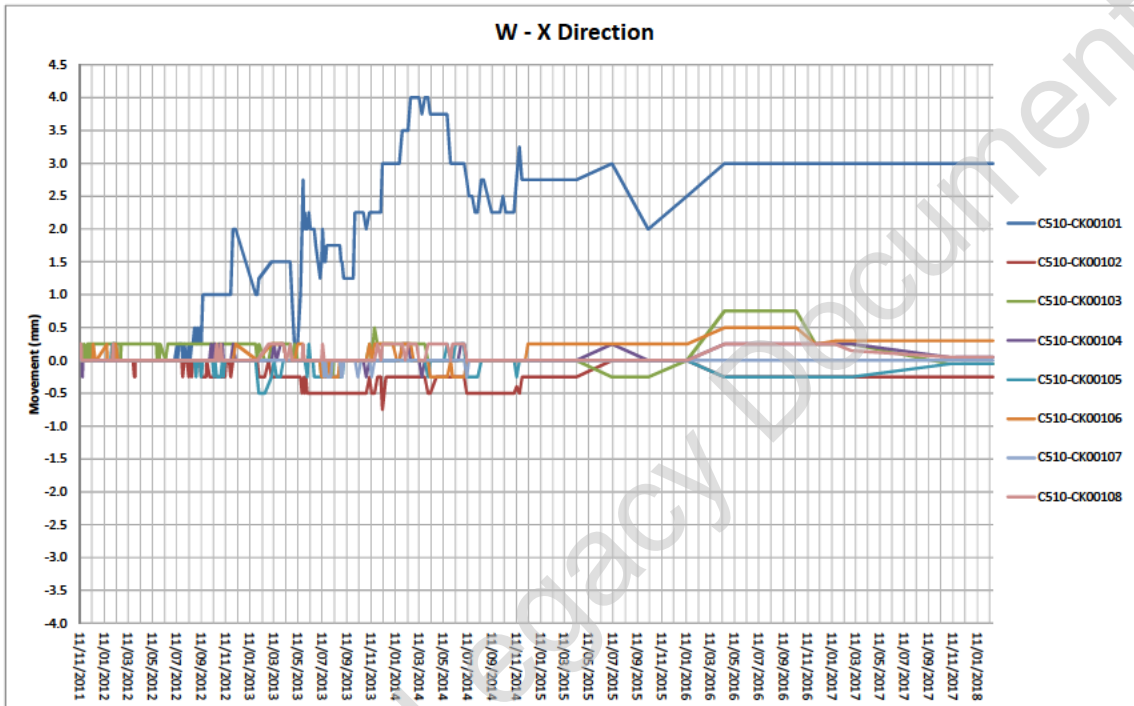
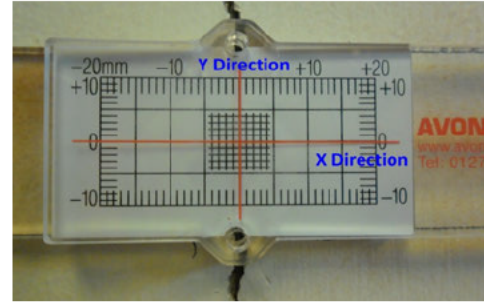
## WHI Close Out Report - Block 04 Blind Beggar Wall

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	Decommissioning Status Comment	Decommissioning Status
C510-CK00101	Block 504	N/A	External	Manual	CK	Crack Monitor	Whilst these can be removed due to monitoring achieved 2mm/y they will be retained until the repaired works are completed.	Agreed
C510-CK00102	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00103	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00104	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00105	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00106	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00107	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00108	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00201	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00202	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00203	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00204	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00205	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00206	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00301	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00302	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00303	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00304	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00305	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00306	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00401	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00501	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00502	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00503	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00504	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00505	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00601	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00602	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00603	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00604	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00605	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00606	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00701	Block 504	N/A	External	Manual	CK	Crack Monitor		Agreed
C510-CK00702	Block 504	N/A	External	Manual	CK	Crack Monitor	Agreed	
C510-CK00801	Block 504	N/A	External	Manual	CK	Crack Monitor	Agreed	
C510-CK00802	Block 504	N/A	External	Manual	CK	Crack Monitor	Agreed	
C510-CK00803	Block 504	N/A	External	Manual	CK	Crack Monitor	Agreed	
C510-TB50401	Block 504	N/A	External	Automated	TB	Tiltmeter-Biaxial	Agreed	
C510-TB50402	Block 504	N/A	External	Automated	TB	Tiltmeter-Biaxial	Agreed	
C510-TB50403	Block 504	N/A	External	Automated	TB	Tiltmeter-Biaxial	Agreed	

# Crackmeters Results

## Blind Begger Wall

W Series					
Name	Crack Width (mm)	Date Installed	Baseline Value X	Baseline Value Y	Location
C510-CK00101	0.25	11/11/2011	0.0	1.3	West Wall
C510-CK00102	0.75	11/11/2011	0.8	0.0	West Wall
C510-CK00103	0.75	11/11/2011	-1.8	0.8	West Wall
C510-CK00104	1.0	11/11/2011	0.3	0.8	West Wall
C510-CK00105	3.0	11/11/2011	0.3	-1.0	West Wall
C510-CK00106	4.75	11/11/2011	0.5	-0.3	West Wall
C510-CK00107	4.75	11/11/2011	0.0	0.0	West Wall
C510-CK00108	0.5	11/11/2011	0.8	-1.8	West Wall

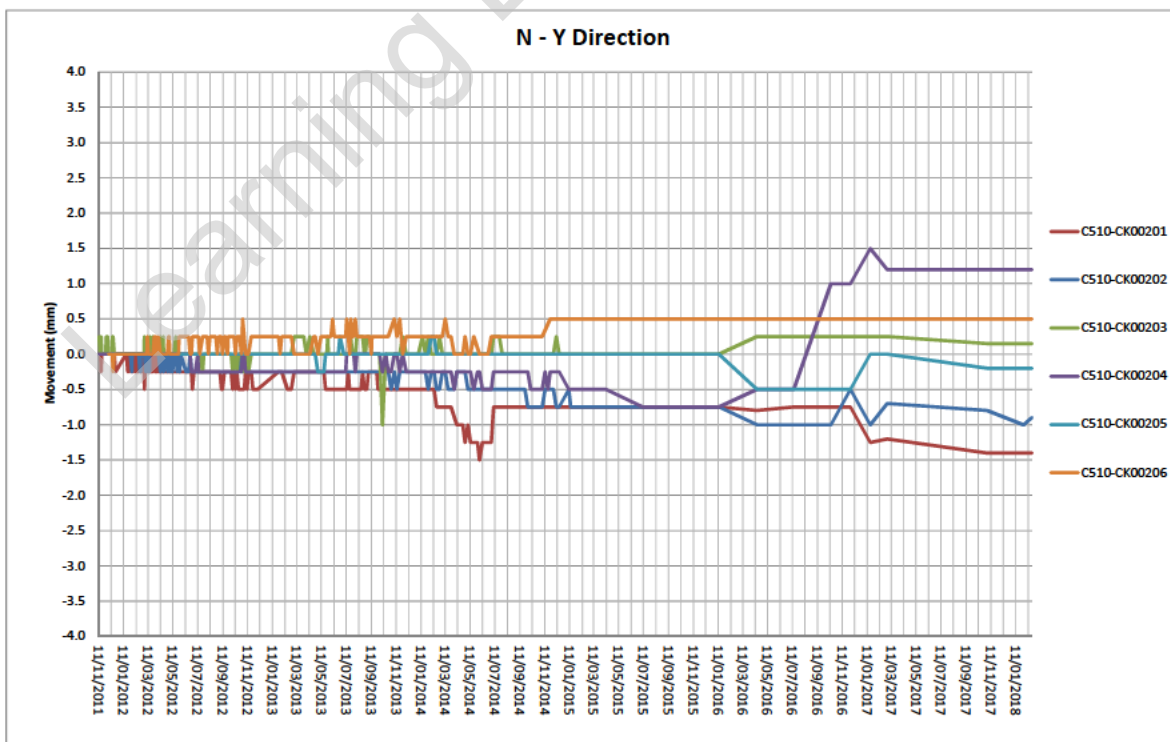
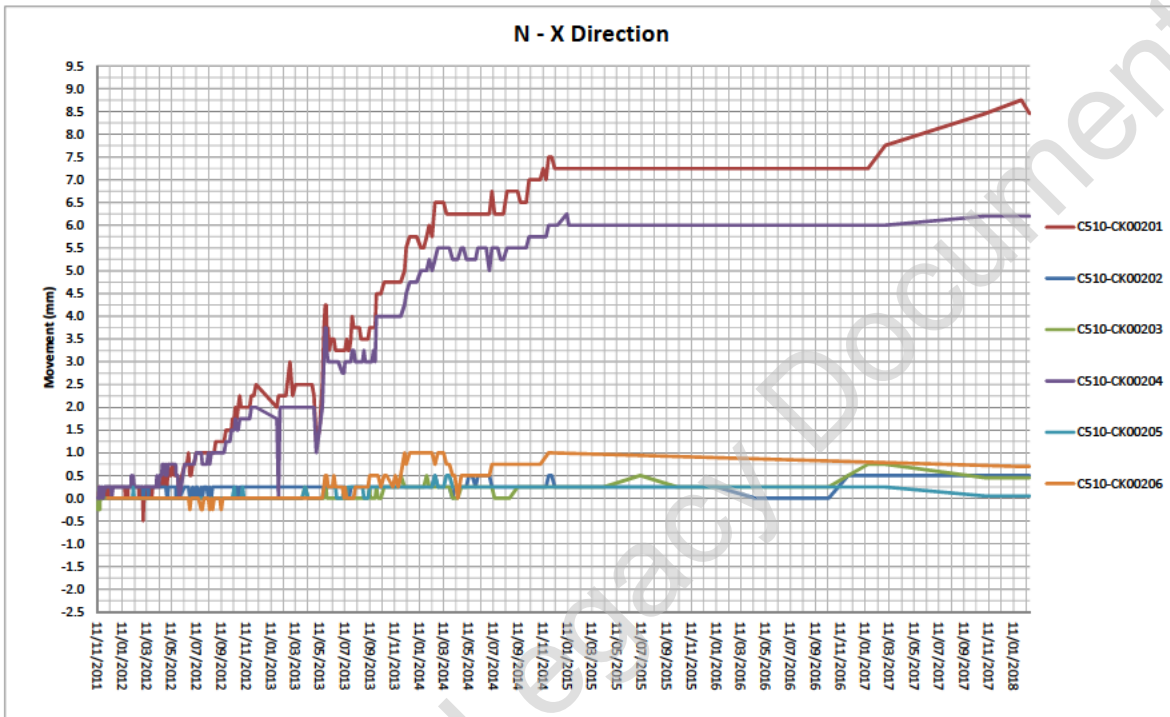
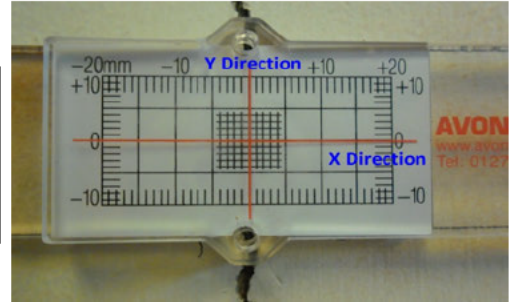




# Crackmeters Results

## Blind Begger Wall

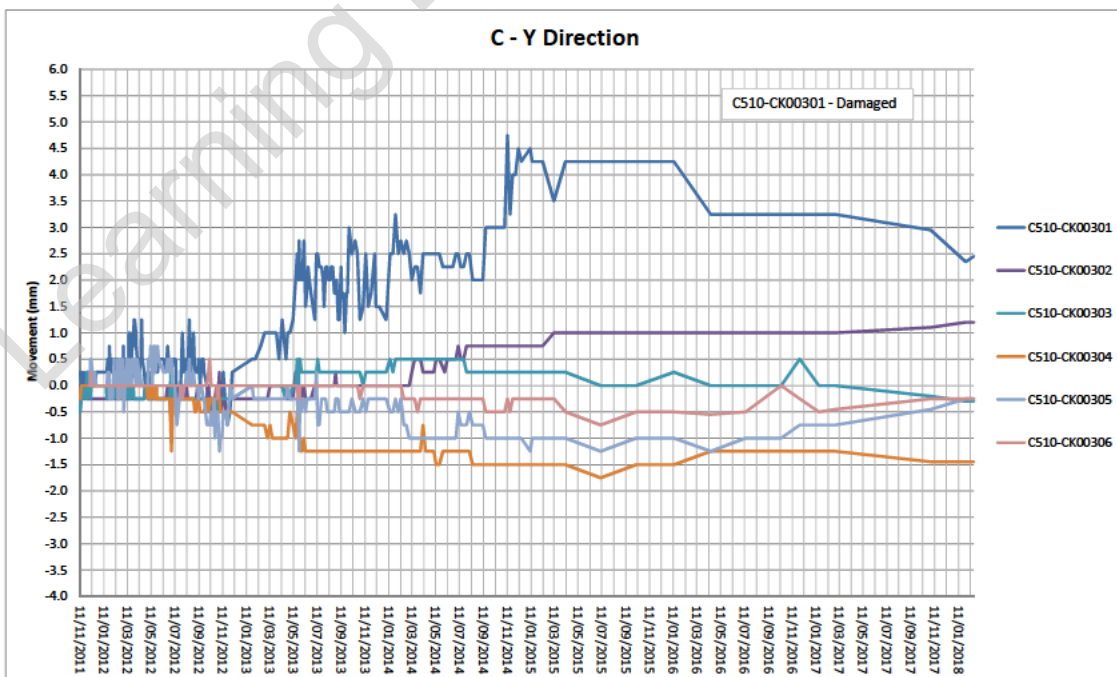
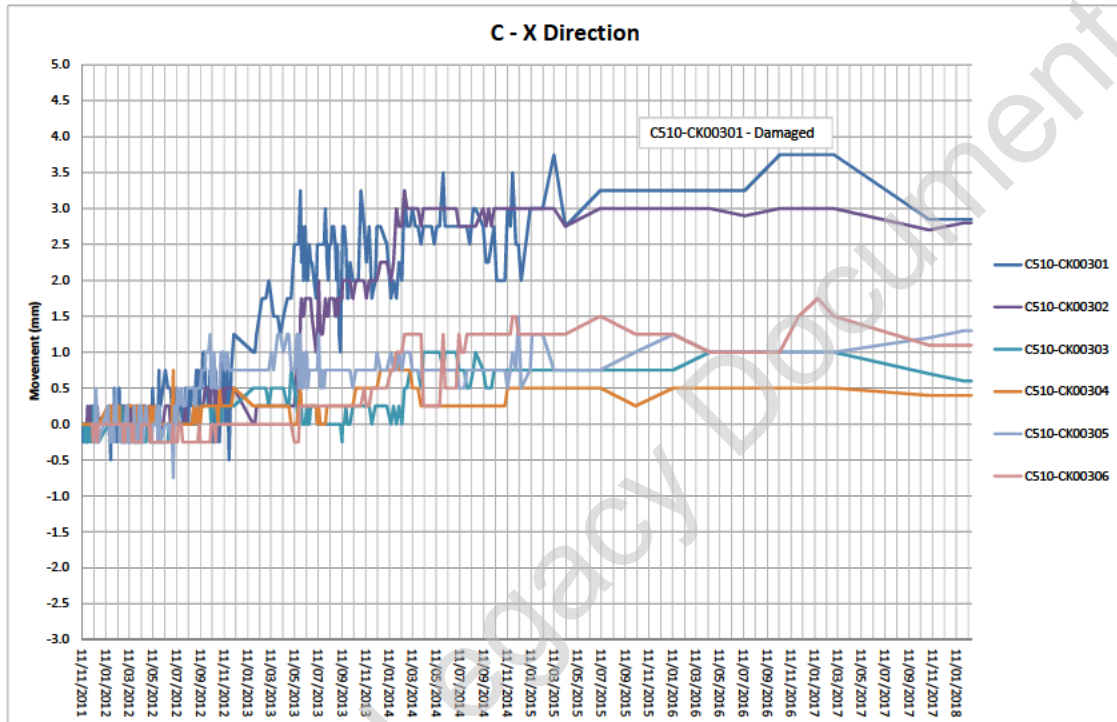
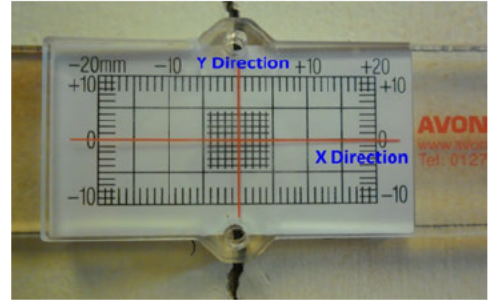
N Series					
Name	Crack Width (mm)	Date Installed	Baseline Value X	Baseline Value Y	Location
C510-CK00201	#N/A	11/11/2011	0.8	-0.5	North Wall
C510-CK00202	#N/A	11/11/2011	0.0	-1.0	North Wall
C510-CK00203	#N/A	11/11/2011	0.3	0.8	North Wall
C510-CK00204	#N/A	11/11/2011	1.0	0.0	North Wall
C510-CK00205	#N/A	05/12/2011	-0.3	0.0	North Wall



# Crackmeters Results

## Blind Begger Wall

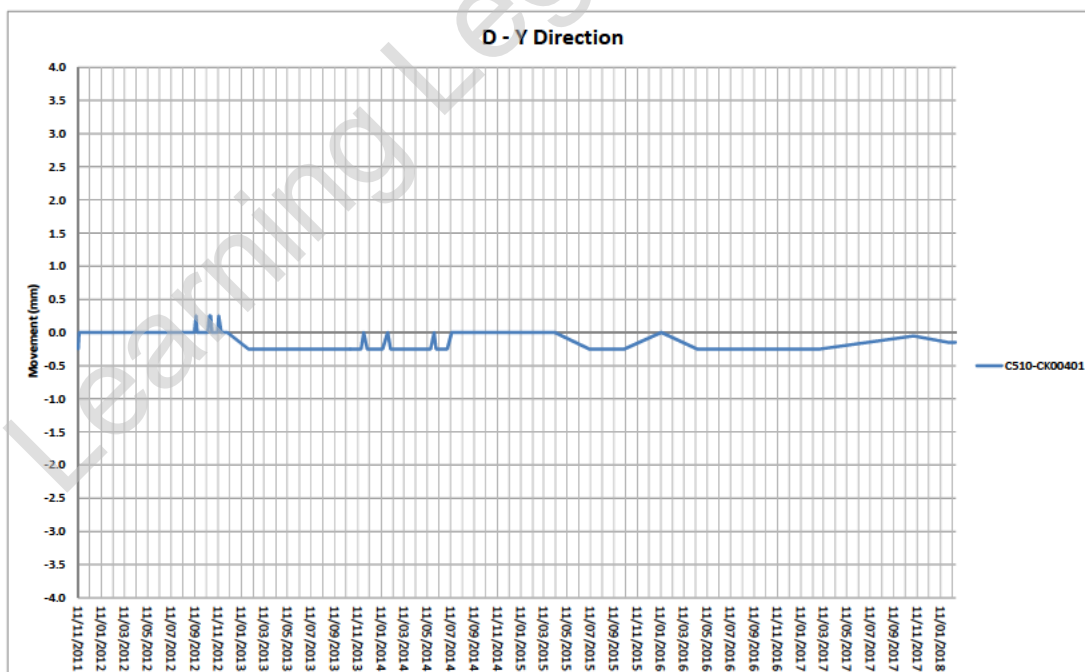
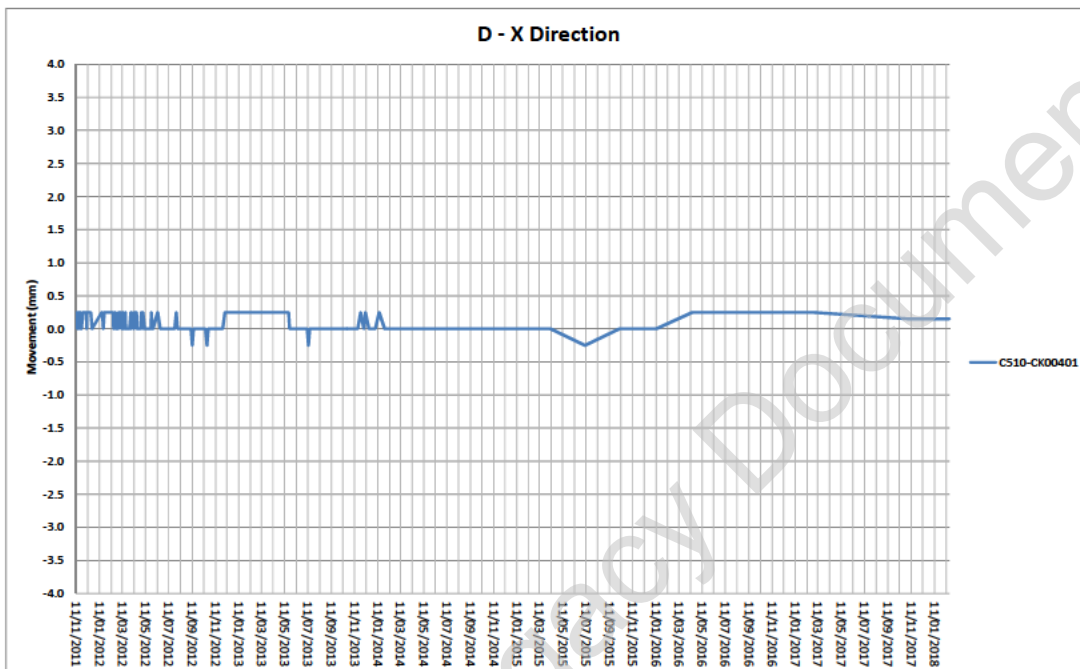
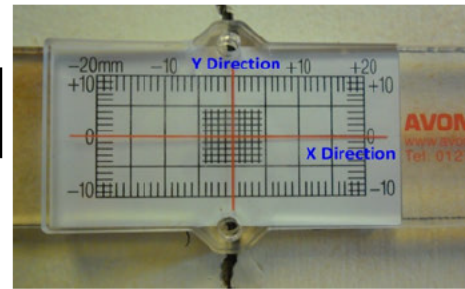
C Series					
Name	Crack Width (mm)	Date Installed	Baseline Value X	Baseline Value Y	Location
C510-CK00301	#N/A	11/11/2011	1.3	0.8	North Wall
C510-CK00302	#N/A	11/11/2011	0.0	0.0	North Wall
C510-CK00303	#N/A	11/11/2011	0.0	-0.5	North Wall
C510-CK00304	#N/A	11/11/2011	0.0	0.3	North Wall
C510-CK00305	#N/A	05/12/2011	0.5	-0.8	North Wall
C510-CK00306	#N/A	05/12/2011	0.0	-0.3	North Wall



# Crackmeters Results

## Blind Begger Wall

D Series					
Name	Crack Width (mm)	Date Installed	Baseline Value X	Baseline Value Y	Location
C510-CK00401	#N/A	11/11/2011	-0.75	-0.25	North Wall

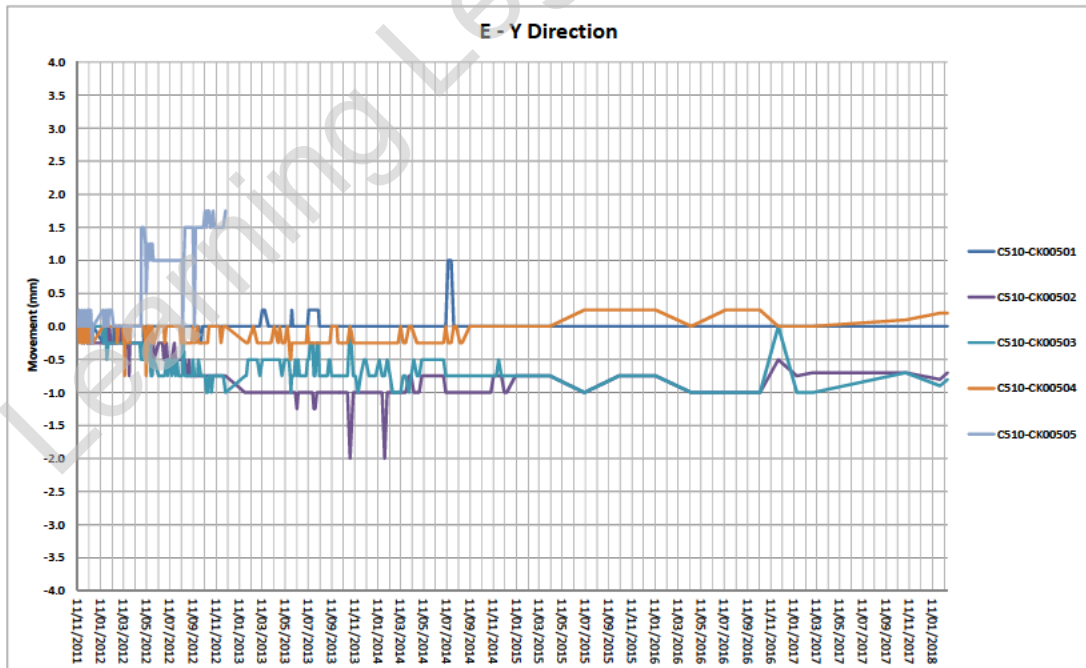
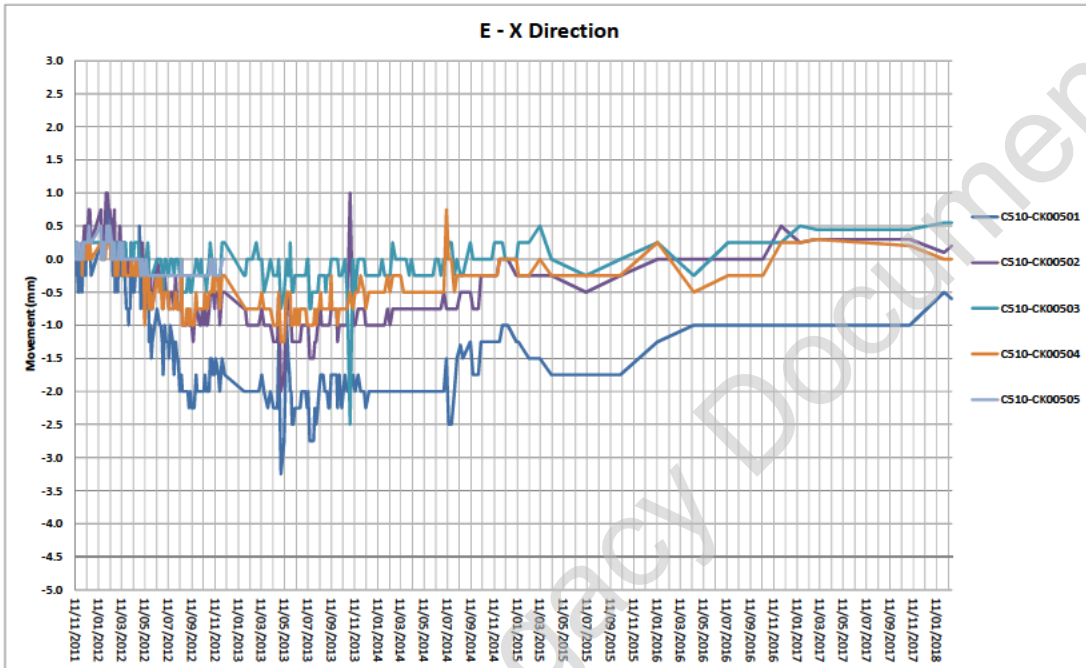
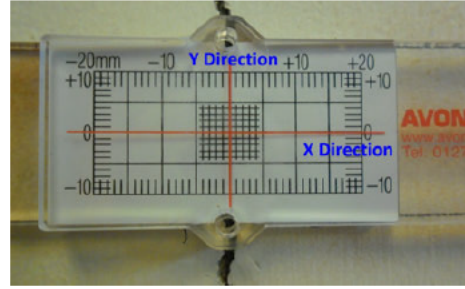


# Crackmeters Results

## Blind Begger Wall

E Series					
Name	Crack Width (mm)	Date Installed	Baseline Value X	Baseline Value Y	Location
C510-CK00501	#N/A	11/11/2011	1.0	-1.0	North Wall
C510-CK00502	#N/A	11/11/2011	-2.0	-1.0	North Wall
C510-CK00503	#N/A	11/11/2011	-0.3	-2.0	North Wall
C510-CK00504	#N/A	11/11/2011	-1.0	0.0	North Wall
C510-CK00505	#N/A	11/11/2011	0.3	-0.8	North Wall

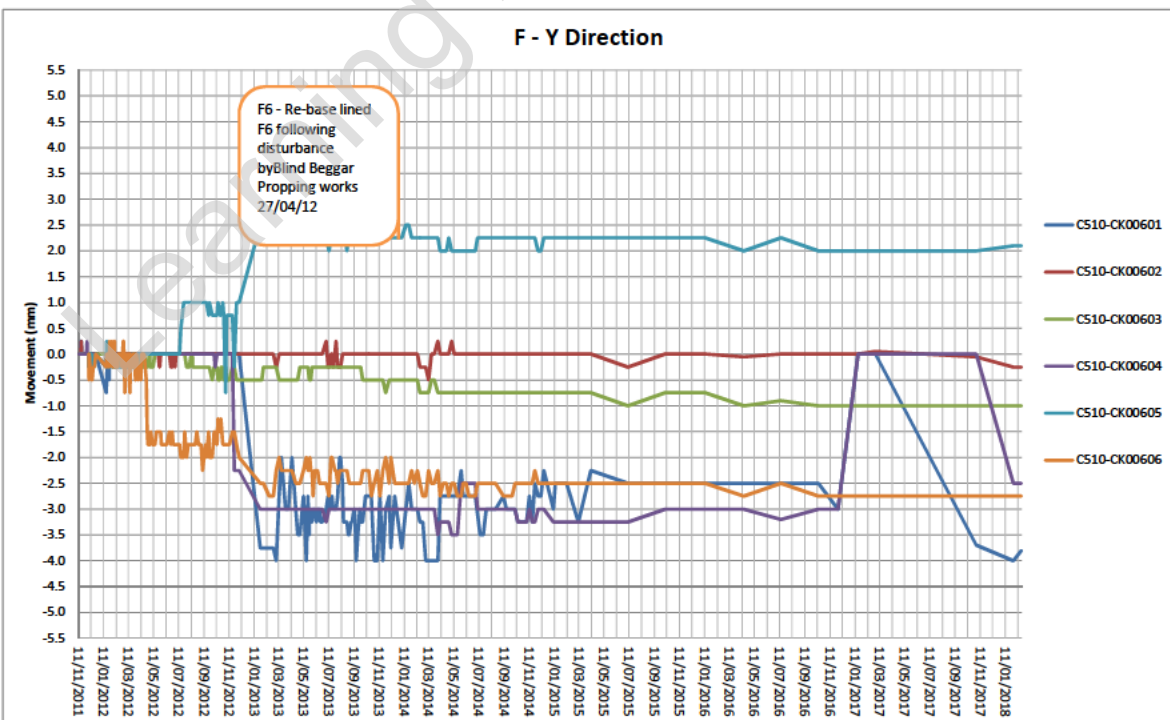
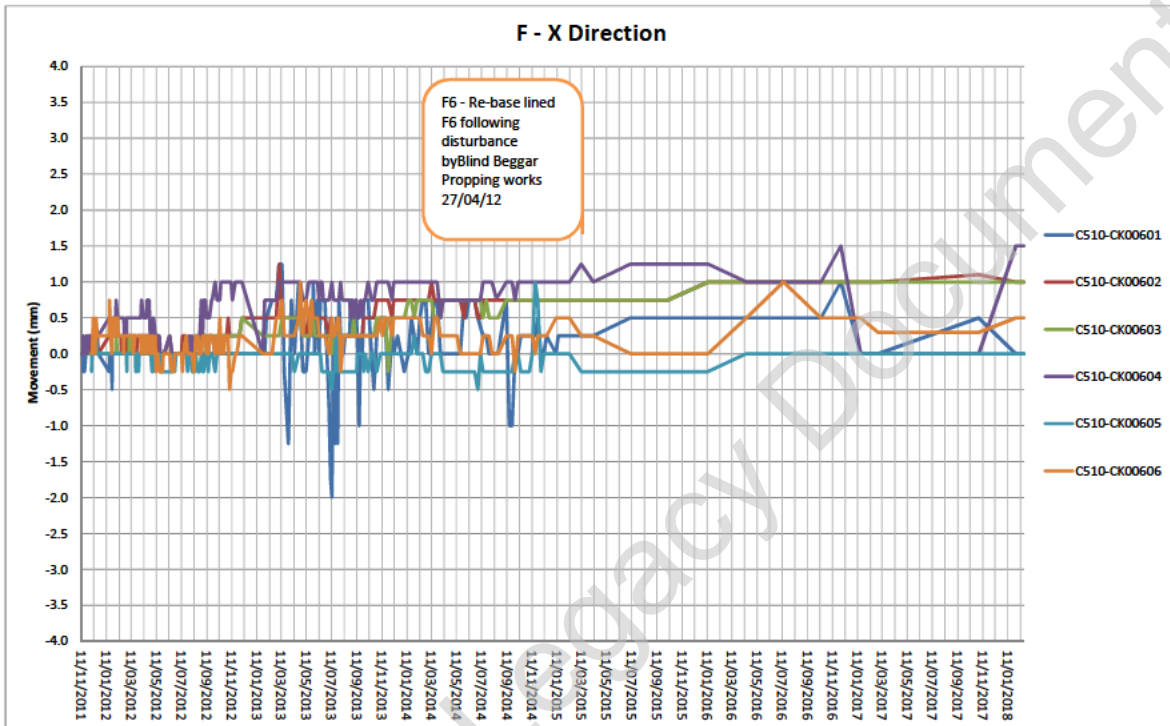
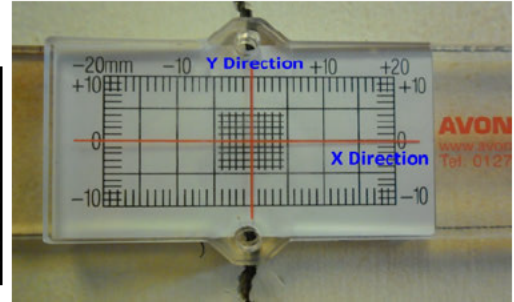
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# Crackmeters Results

## Blind Begger Wall

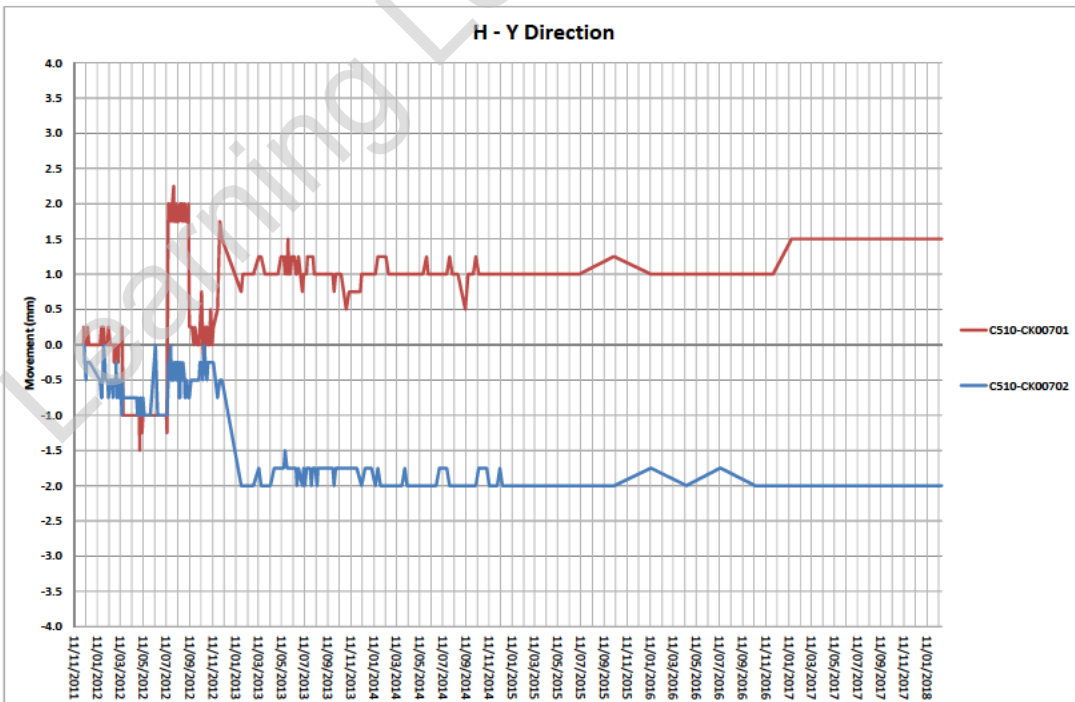
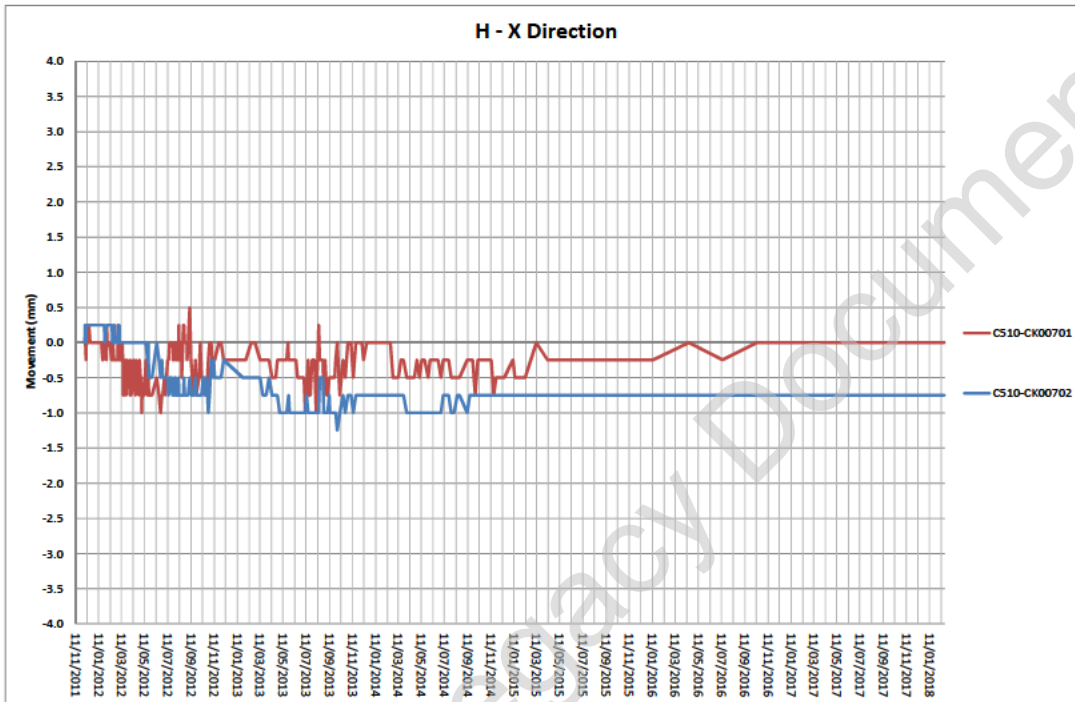
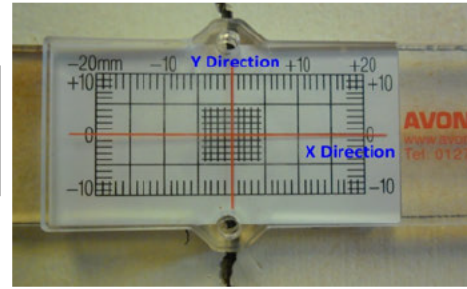
F Series					
Name	Initial Crack Width (mm)	Date Installed	Baseline Value X	Baseline Value Y	Location
C510-CK00601	#N/A	11/11/2011	1.0	0.0	North Wall
C510-CK00602	#N/A	11/11/2011	-2.0	-0.8	North Wall
C510-CK00603	#N/A	11/11/2011	0.0	0.0	North Wall
C510-CK00604	#N/A	11/11/2011	-1.0	0.0	North Wall
C510-CK00605	#N/A	05/12/2011	-0.5	0.0	North Wall
C510-CK00606	#N/A	05/12/2011	-0.5	-0.3	North Wall



# Crackmeters Results

## Blind Begger Wall

H Series					
Name	Initial Crack Width (mm)	Date Installed	Baseline Value X	Baseline Value Y	Location
C510-CK00701	#N/A	05/12/2011	0.0	-1.0	North Wall
C510-CK00702	#N/A	05/12/2011	0.8	0.0	North Wall

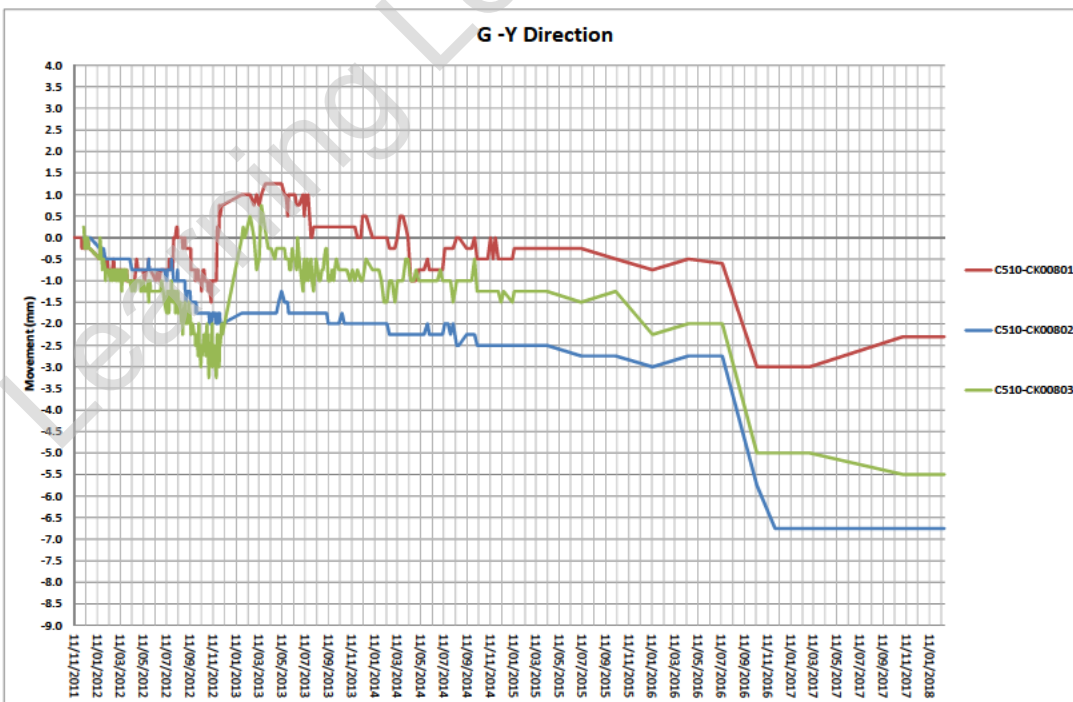
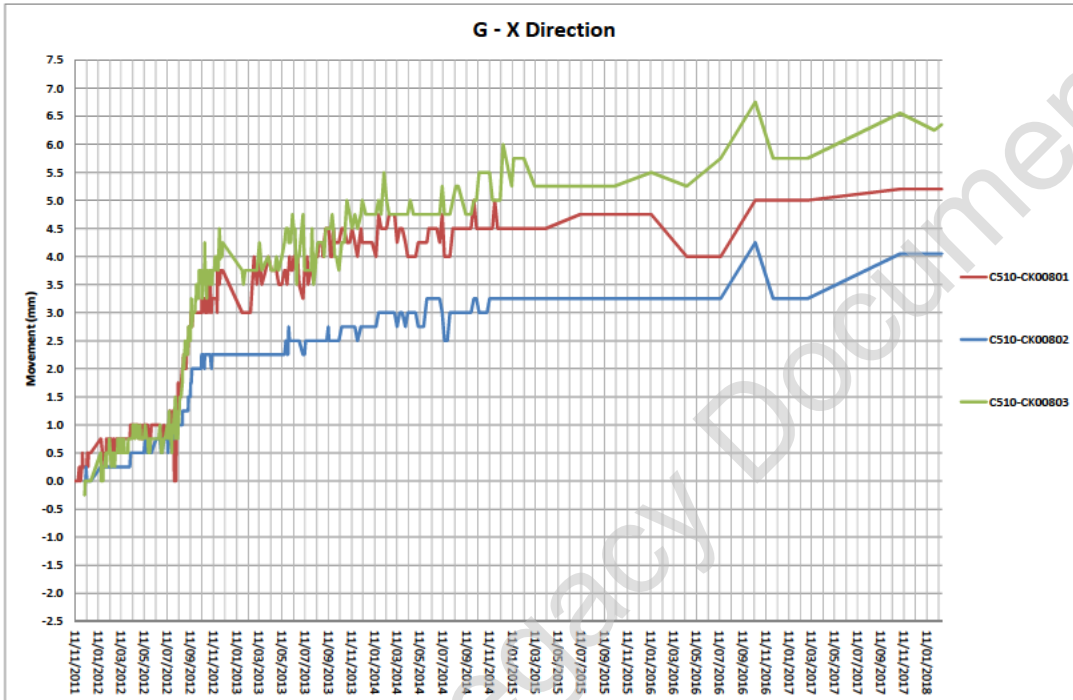
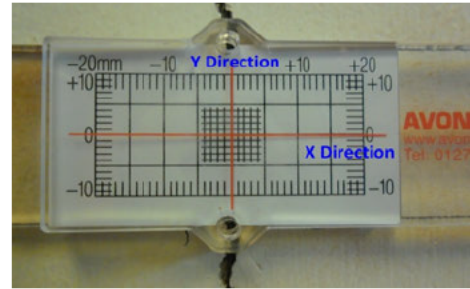


# Crackmeters Results

## Blind Begger Wall

01/03/2017

G Series					
Name	Initial Crack Width (mm)	Date Installed	Baseline Value X	Baseline Value Y	Location
C510-CK00801	10.5	11/11/2011	2.0	-1.0	East Wall
C510-CK00802	7.0	05/12/2011	2.8	-0.3	East Wall
C510-CK00803	14.5	05/12/2011	0.3	-1.0	East Wall

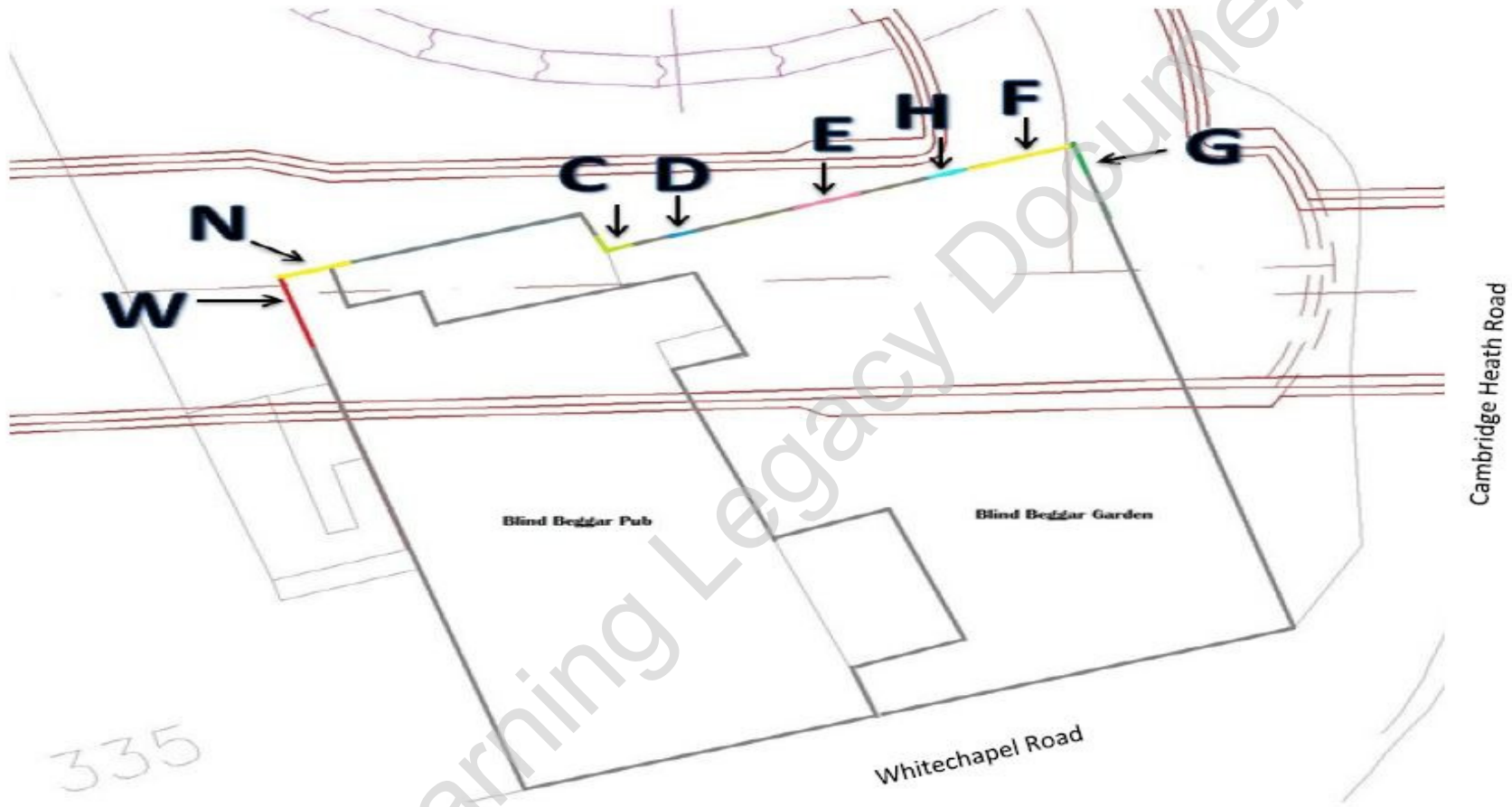


# Blind Beggar Wall Location Diagram

BBMV C510 Whitechapel

Blind Begger Crackmeter Locations

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Cambridge Heath Road

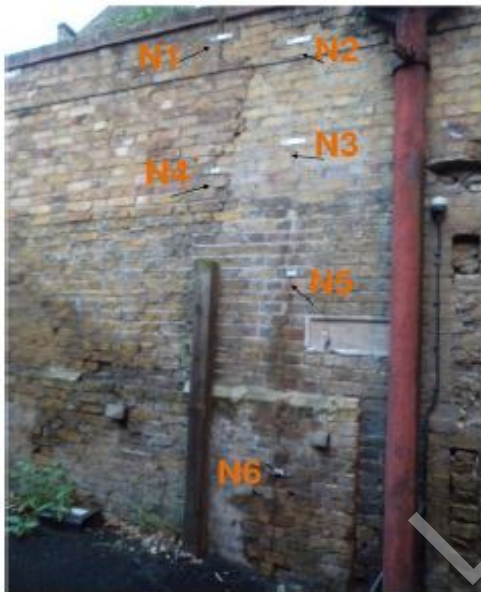
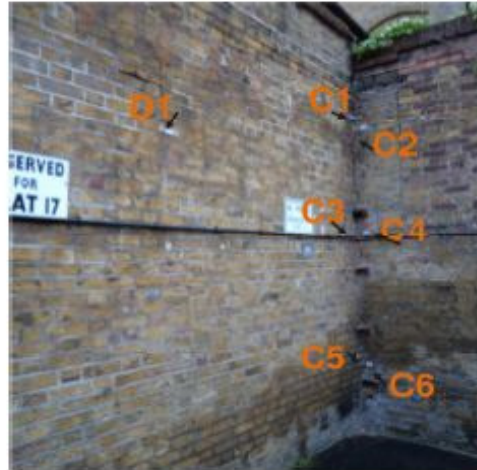
Whitechapel Road

Blind Beggar Pub

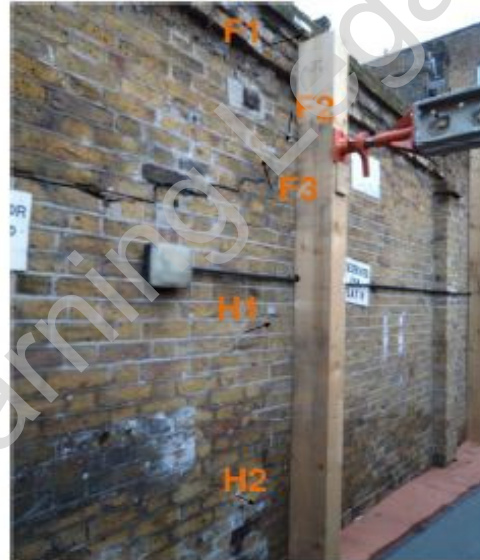
Blind Beggar Garden



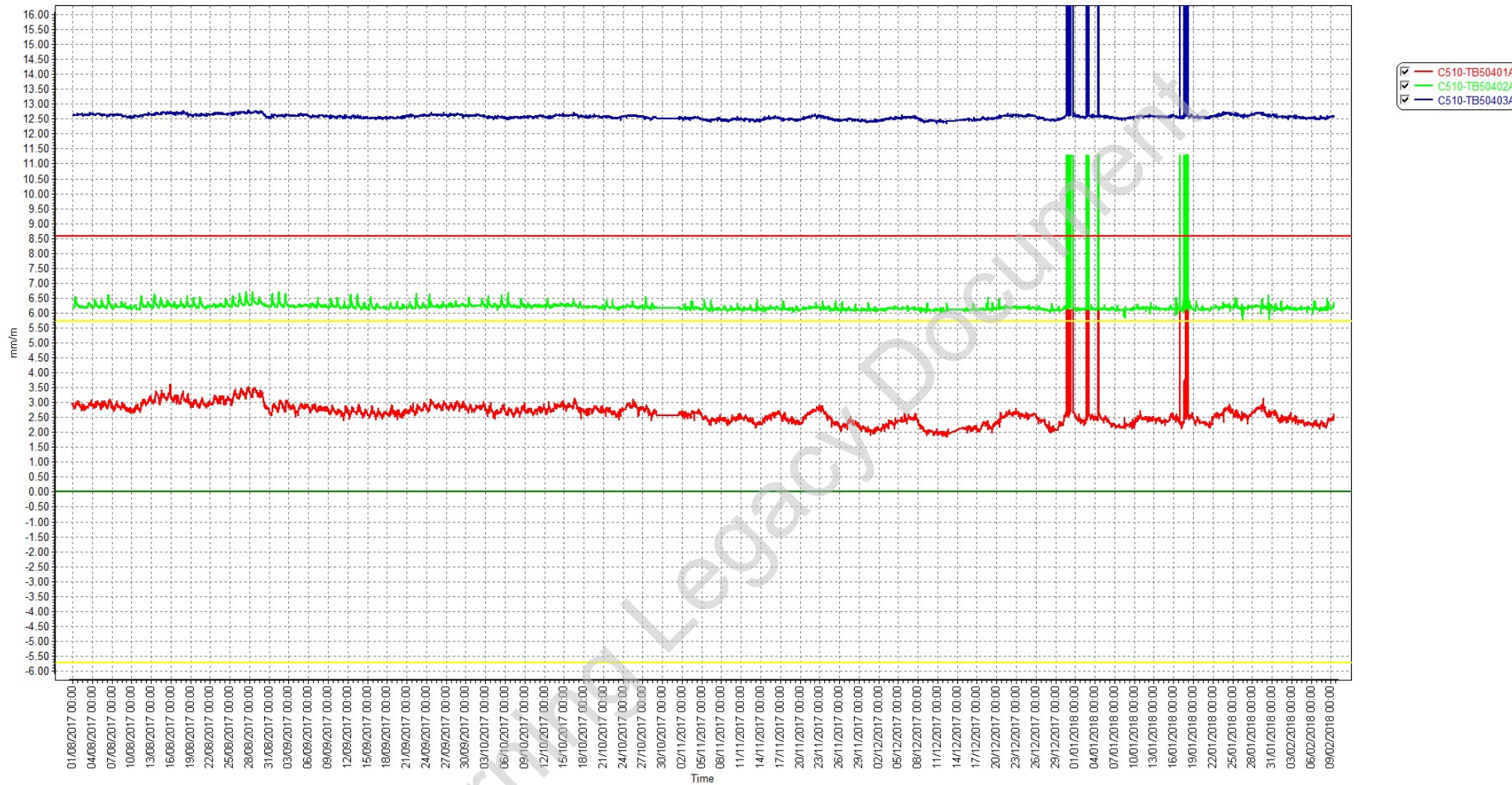
BBMV C510 Whitechapel



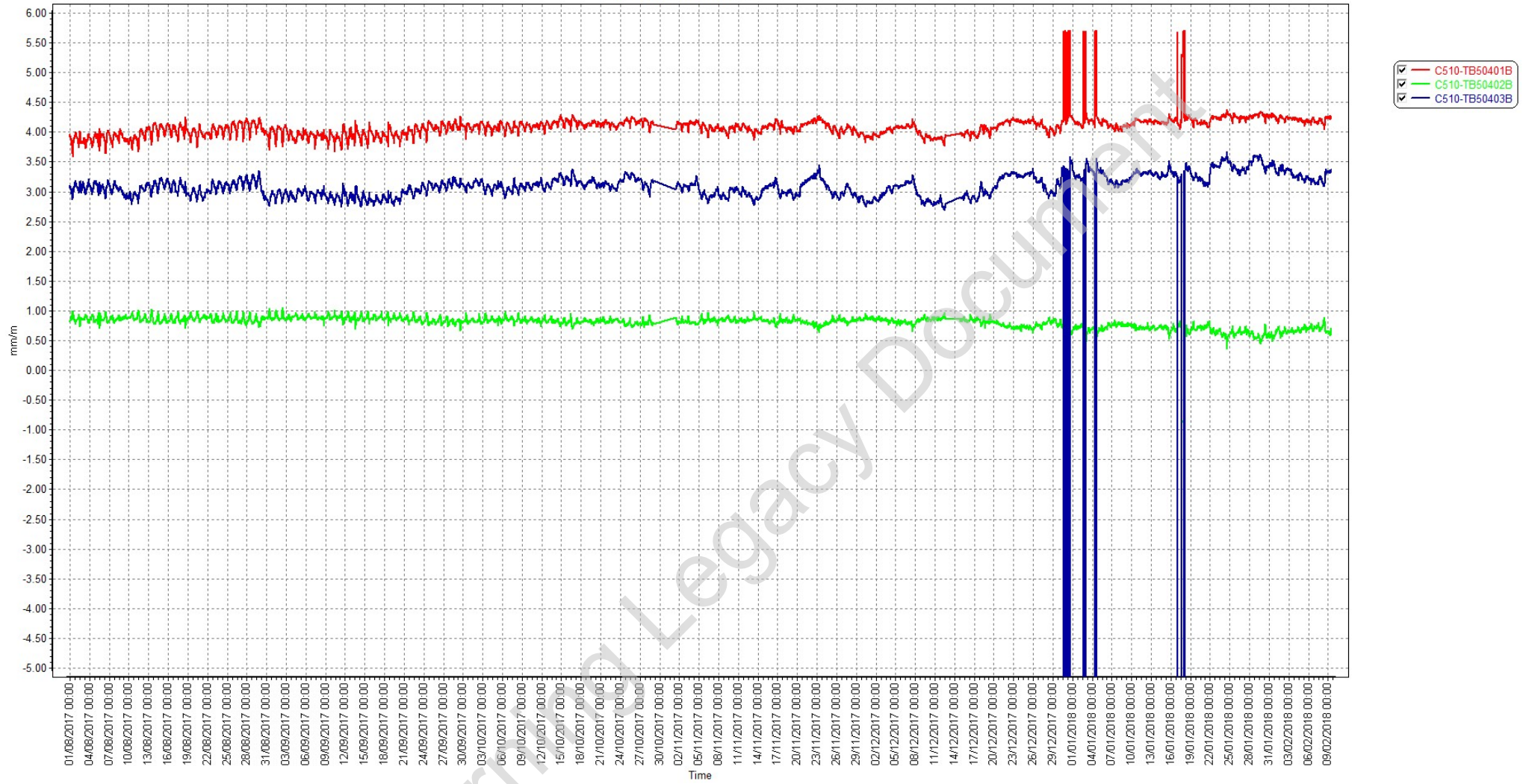
Blind Begger Crackmeter Locations



Blind Beggar Tilt Meters A



Blind Beggar Tilt Meters B



## Appendix D Whitechapel C510 Extensometers and Inclinometers Status

Learning Legacy Document

Whitechapel XR Decommissioning Tracker

28/03/2017

C510 Sensor Name	Block	Bore Hole Depth	Base of Borehole (mATD)	Ground Level (mATD)	Int / Ext	Measurement Type	Sensor Type	Sensor Description	Asset/Location	ZOI Last Primary Layer Construction	Last Construction Date	Last Survey Date	General Comment	Decommissioning Status
C510-XR50101-14m	Block 01	14m	97.87	111.87	Inground	Manual	XR	Extensometer	Durward Street (DSS / Swanlea School)	WHI_ES1_Downhill-0_Adv-27	13/10/2015	04/03/2016	Sensor covered by concrete piling mat from C512 crane. The BHs has been transfer to C512 ovia RFI 1161 and C510-CCM-02534	Agreed
C510-XR50101-12m														
C510-XR50101-10m														
C510-XR50101-8m														
C510-XR50101-4m														
C510-XR50101-0m														
C510-XR50102-11m	Block 01	17m	94.53	111.53	Inground	Automated	XR	Extensometer	Durward Street (Swanlea School)	WHI_PTEW_Enlargement-Part1_Adv-143	09/07/2013	03/11/15	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50102-9m														
C510-XR50102-5m														
C510-XR50102-17m														
C510-XR50102-14m														
C510-XR50102-0m														
C510-XR50201-11m	Block 02	17m	93.59	110.59	Inground	Automated	XR	Extensometer	Sainsbury's CarPark	WHI_NEPT_Enlargement-TransitionEnd_Adv-5	17/06/2013	23/08/2015	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50201-9m														
C510-XR50201-5m														
C510-XR50201-17m														
C510-XR50201-14m														
C510-XR50201-0m														
C510-XR50301-0m	Block 03	17m	94.48	111.48	Inground	Manual	XR	Extensometer	Cambridge Heath Road (East)	WHI_SEPT_Enlargement-Part3a_Adv-188	24/06/2013	22/01/2015	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50301-4m														
C510-XR50301-8m														
C510-XR50301-12m														
C510-XR50301-17m														
C510-XR50302-0m	Block 03	4m	107.27	111.27	Inground	Manual	XR	Extensometer	Cambridge Heath Road (East)	WHI_SEPT_Enlargement-Part3a_Adv-188	24/06/2013	11/09/2013	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50302-4m														
C510-XR50303-0m	Block 03	17m	94.33	111.33	Inground	Manual	XR	Extensometer	Cambridge Heath Road (East)	WHI_NEPT_Enlargement-Part2b_Adv-177	03/08/2013	22/01/2016	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50303-12m														
C510-XR50303-4m														
C510-XR50303-8m														
C510-XR50303-17m														
C510-XR50304-4m	Block 03	4.5m	106.72	111.22	Inground	Manual	XR	Extensometer	Cambridge Heath Road (East)	WHI_CAVE_Full-0_Adv-8	20/07/2014	22/01/2016	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50304-2m														
C510-XR50304-0m	Block 05	17m	94.99	111.99	Inground	Manual	XR	Extensometer	Kempton Court (West)	WHI_EPW1ES1_Enlargement-West_Adv-29	12/04/2014	20/08/2015	Sensor can not be monitored due to C512 container. The BHs has been transfer to C512 ovia RFI 1161 and C510-CCM-02534	Agreed
C510-XR50501-4m														
C510-XR50501-9m														
C510-XR50501-12.5m														
C510-XR50501-17m														
C510-XR50502-0m	Block 05	17m	94.99	111.99	Inground	Manual	XR	Extensometer	Kempton Court (West)	WHI_CP1A_Enlargement-NioS_Adv-48	04/10/2013	04/03/2016	due to C512 Crane. The BHs has been transfer to C512 ovia RFI	Agreed
C510-XR50502-5m														
C510-XR50502-17m														
C510-XR50502-12.5m														
C510-XR50502-9m														
C510-XR50504-0m	Block 05	17m	94.8	111.8	Inground	Manual	XR	Extensometer	Brady Street	WHI_WBW_Enlargement-TransitionEnd_Adv-5	19/06/2013	04/03/2016	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50504-5m														
C510-XR50504-9m														
C510-XR50504-11m														
C510-XR50504-14m														
C510-XR50504-17m														
C510-XR50505-0m	Block 05	4m	107.19	111.19	Inground	Manual	XR	Extensometer	Brady Street	WHI_PTEW_Enlargement-Part1_Adv-103	01/07/2013	22/01/2016	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50505-4m														
C510-XR50505-2m														
C510-XR50503-5m	Block 05	17m	94.86	111.86	Inground	Manual	XR	Extensometer	Brady Street	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	27/09/13	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50503-17m														
C510-XR50503-14m														
C510-XR50503-9m														
C510-XR50503-11m	Block 05	4m	107.59	111.59	Inground	Manual	XR	Extensometer	Brady Street	WHI_PTEW_Enlargement-Part1_Adv-68	23/06/2013	21/04/2015	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50506-2m														
C510-XR50506-4m														
C510-XR50801-17m	Block 08	17m	95.65	112.65	Inground	Automated	XR	Extensometer	Sports Centre	WHI_VA5_Enlargement-0_Adv-58	05/05/2014	04/03/2016	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50801-14m														
C510-XR50801-11m														
C510-XR50801-9m														
C510-XR50801-5m														
C510-XR50801-0m														
C510-XR50901-12m	Block 09	19m	94.39	113.39	Inground	Manual	XR	Extensometer	Vallance Gardens	WHI_XOV_Ending-0_Adv-8	13/09/2014	07/03/2016	Sensor Decommissioned by Soldata Technician March 2016	Complete
C510-XR50901-16m														
C510-XR50901-19m														
C510-XR50901-0m														
C510-XR50902-5.3m	Block 09	6m	106.76	112.76	Inground	Manual	XR	Extensometer	Vallance Road	WHI_CAVE_Full-0_Adv-5	18/07/2014	06/09/2016	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50902-4.1m														
C510-XR50902-0m														
C510-XR50903-5.3m	Block 09	5.5m	107.54	113.04	Inground	Manual	XR	Extensometer	Vallance Road	WHI_CAVE_Full-0_Adv-35	04/08/2014	06/09/2016	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50903-4.1m														
C510-XR50903-0m														
C510-XR50904-5.2m	Block 09	5.5m	107.67	113.17	Inground	Manual	XR	Extensometer	Vallance Road	WHI_CAVE_Full-0_Adv-29	31/07/2014	06/09/2016	Agreed to Decommission ERP meeting 10/03/2016	Complete
C510-XR50904-4m														
C510-XR50904-0m														

Whitechapel IM Decommissioning Tracker

30/03/2017

C510 Sensor Name	Block	Bored Hole Depth	Base of Bore Hole (mATD)	Top of Inclinometer	Easting	Northing	Int / Ext	Measurement Type	Sensor Type	Sensor Description	Asset/Location	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	General Comment	Decommissioning Status
C510-IE50101	Block 1	39.7m	71.76	111.46	85123.63	36608.09	Inground	Automated	IE	Inclinometer-Automated	Durward Street north of PTE West	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	13/10/2014	Sensor Decommissioned 13/10/2014	Complete
C510-IE50102	Block 1	39.5m	72.249	111.749	85106.82	36587.83	Inground	Automated	IE	Inclinometer-Automated	Durward Street south of PTE West	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/09/2014	Sensor Decommissioned 15/10/2014	Complete
C510-IE501201	Block 2	N/A	N/A	94.48 Open end Hole (fixed position)	85038.547 (open end hole- fixed coord)	36570.374 (open end hole- fixed coord)	Inground	Automated	IE	Inclinometer-Automated	SCL Tunnel above ES1	WHI_BYPS_Full-0_Adv-10	27/01/2016	?	?	Complete
C510-IE50201	Block 2				85180.70	36580.23	Inground	Automated	IE	Inclinometer-Automated	Access Shaft above CP2 North	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	12/04/2017	6 months post construction monitoring specification complete	Complete
C510-IE50202	Block 2				85182.70	36567.98	Inground	Automated	IE	Inclinometer-Automated	Access Shaft above CP2 South	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	12/04/2017	6 months post construction monitoring specification complete	Complete
C510-IE50203	Block 2				85179.50	36567.85	Inground	Automated	IE	Inclinometer-Automated	Access Shaft above CP2 South	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	12/04/2017	Sensor Decommissioned 15/10/2015	Complete
C510-IE50204	Block 2	40	71.44	111.44	85191.83	36594.53	Inground	Automated	IE	Inclinometer-Automated	Sainsbury's car park	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	13/10/2014	Sensor Decommissioned 13/10/2014	Complete
C510-IE50406	Block 4				85220.34	36575.15	Inground	Automated	IE	Inclinometer-Automated	Grouting Shaft TaMS	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	17/07/2015	No survey data since- 17/07/2015- Proposed to formally agree decommissioning	Complete
C510-IE50425	Block 4				85222.47	36574.07	Inground	Automated	IE	Inclinometer-Automated	Grouting Shaft TaMS	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	17/07/2015	No survey data since- 17/07/2015- Proposed to formally agree decommissioning	Complete
C510-IE50439	Block 4				85224.47	36574.46	Inground	Automated	IE	Inclinometer-Automated	Grouting Shaft TaMS	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	17/07/2015	No survey data since- 17/07/2015- Proposed to formally agree decommissioning	Complete
C510-IE50501	Block 5	39.4	72.72	112.12	85074.96	36541.77	Inground	Automated	IE	Inclinometer-Automated	Kempton Court car park	WHI_ES1_Downhill-0_Adv-27	13/10/2015	21/10/2014	Sensor Decommissioned 21/10/2014	Complete
C510-IE50502	Block 5	39.2	72.64	111.84	85155.16	36562.25	Inground	Automated	IE	Inclinometer-Automated	Brady Street north of PTW West	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	14/10/2014	Sensor Decommissioned 14/10/2014	Complete
C510-IE50503	Block 5	39			85161.61	36546.70	Inground	Automated	IE	Inclinometer-Automated	Brady Street south of PTW West	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	14/10/2014	Sensor Decommissioned 14/10/2014	Complete
C510-IM50101	Block 1	39.7m	71.76	111.46	85123.55	36605.03	Inground	Manual	IM	Inclinometer-Manual	Durward Street north of PTE West	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	07/05/2013	Sensor converted to Automated- C510-IE50101	Complete
C510-IM50102	Block 1	39.5m	72.249	111.749	85106.82	36587.77	Inground	Manual	IM	Inclinometer-Manual	Durward Street south of PTE West	WHI_ES1_Downhill-0_Adv-27	13/10/2015	13/01/2013	Sensor converted to Automated- C510-IE50102	Complete
C510-IM50201	Block 2	39m	72.26	111.26	85186.77	36609.30	Inground	Manual	IM	Inclinometer-Manual	Sainsbury's car park replaced by C510-IM50203	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	26/11/2012	Replaced by C510-IM50203,The BHs has been transfer to C512 ovia RFI 1161 and C510-CCM-02534	Agreed
C510-IM50202	Block 2	38.5m (Approx)	72.94 (Approx)	111.44	85188.02	36594.49	Inground	Manual	IM	Inclinometer-Manual	Sainsbury's car park replaced by C510-IM50204	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	02/10/2012	Replaced by C510-IM50204	Complete
C510-IM50203	Block 2	40	71.26	111.26	85188.29	36609.55	Inground	Manual	IM	Inclinometer-Manual	Sainsbury's car park replacing C510-IM50201	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	07/04/2013	No survey data since- 07/04/2013- Proposed to formally agree decommissioning	Complete
C510-IM50204	Block 2	40	71.44	111.44	85191.83	36594.53	Inground	Manual	IM	Inclinometer-Manual	Sainsbury's car park replacing C510-IM50202	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	05/04/2013	Sensor converted to Automated- C510-IE50204, The BHs has been transfer to C512 ovia RFI 1161 and C510-CCM-02534	Agreed
C510-IM50501	Block 5	39.4	72.72	112.12	85075.25	36541.81	Inground	Manual	IM	Inclinometer-Manual	Kempton Court car park	WHI_ES1_Downhill-0_Adv-27	13/10/2015	26/04/2013	Sensor converted to Automated- C510-IE50501The BHs has been transfer to C512 ovia RFI 1161 and C510-CCM-02534	Agreed
C510-IM50502	Block 5	39.2	72.64	111.84	85155.14	36562.26	Inground	Manual	IM	Inclinometer-Manual	Brady Street north of PTW West	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	13/11/2012	Sensor converted to Automated-C510-IE50502	Complete
C510-IM50503	Block 5	39			85161.63	36546.77	Inground	Manual	IM	Inclinometer-Manual	Brady Street south of PTW West	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	12/11/2012	Sensor converted to Automated- C510-IE50503	Complete
C510-IM50801	Block 8	40	72.81	112.81	84979.37	36557.07	Inground	Manual	IM	Inclinometer-Manual	Sports Centre	WHI_BYPS_Full-0_Adv-10	27/01/2016	29/05/2015	ERP agreed to decommission 10/03/2016	Complete

Learning Legacy Document



**Appendix E Whitechapel C510 Monitoring Sensor Status Listings from Revision 4**

Learning Legacy Document




Appendix B Whitechapel C510 Monitoring Sensor Listings AGREED/DESTROYED/DECOMMISSIONED for decommissioning

WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors 04/03/2016

AVERAGE SETTLEMENT TREND

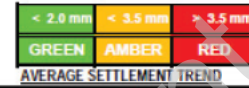
C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	AVERAGE SETTLEMENT TREND			Decommissioning Status Comment	Decommissioning Status
										Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days		
C510-4850115	Block 501	S50103	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850116	Block 501	S50103	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850117	Block 501	S50103	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850118	Block 501	S50103	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850119	Block 501	S50103	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850120	Block 501	S50103	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-18	10/04/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850121	Block 501	S50104	External	Manual	LB	BRE	WHI_PTEW_Enlargement-DSS_Adv-208	21/03/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850122	Block 501	S50104	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-14	09/04/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850123	Block 501	S50104	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-18	10/04/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850124	Block 501	S50104	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-23	11/04/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850125	Block 501	S50104-S50106	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	15/07/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850126	Block 501	S50105	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	11/07/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850127	Block 501	S50105	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	22/04/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850128	Block 501	S50105	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	22/04/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850129	Block 501	S50105	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	11/07/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850130	Block 501	S50105	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	22/04/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850131	Block 501	S50105	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	22/04/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850132	Block 501	S50105	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	11/07/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850133	Block 501	S50106	External	Manual	LB	BRE	WHI_ES1_Downhill-Q_Adv-27	13/10/2015	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850134	Block 501	S50106	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-20	10/04/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850135	Block 501	S50106	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-8	16/02/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850136	Block 501	S50106-S50107	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastSub_Adv-9	03/02/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850137	Block 501	S50107	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastSub_Adv-9	03/02/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850138	Block 501	S50107	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastSub_Adv-9	03/02/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850139	Block 501	S50107	External	Manual	LB	BRE	WHI_CP1A_Enlargement-NbS_Adv-10	11/09/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850140	Block 501	S50107	External	Manual	LB	BRE	WHI_CP1A_Enlargement-NbS_Adv-3	08/09/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850141	Block 501	S50107	External	Manual	LB	BRE	WHI_PTEW_Enlargement-Par2_Adv-167	14/07/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850201	Block 502	S50201	External	Manual	LB	BRE	WHI_EPW1E_Enlargement_Adv-8	16/02/2014	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850202	Block 502	S50201	External	Manual	LB	BRE	WHI_EPW1E_Enlargement_Adv-8	16/02/2014	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850203	Block 502	S50201	External	Manual	LB	BRE	WHI_EPW1E_Enlargement_Adv-8	16/02/2014	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850206	Block 502	S50202	External	Manual	LB	BRE	WHI_EPW1E_Enlargement_Adv-8	16/02/2014	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850207	Block 502	S50202	External	Manual	LB	BRE	WHI_EPW1E_Enlargement_Adv-8	16/02/2014	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850208	Block 502	S50203	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850209	Block 502	S50203	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850210	Block 502	S50203	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850211	Block 502	S50203	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850212	Block 502	S50203	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850213	Block 502	S50203	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850214	Block 502	S50203	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850215	Block 502	S50204	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850216	Block 502	S50204	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850217	Block 502	S50204	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850218	Block 502	S50204	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850301	Block 503	S50302	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850302	Block 503	S50302	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850303	Block 503	S50302	External	Manual	LB	BRE	WHI_VA1_Pilot_Adv-17	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850304	Block 503	S50303	External	Manual	LB	BRE	WHI_VA2_Pilot_Adv-15	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850305	Block 503	S50303	External	Manual	LB	BRE	WHI_VA2_Pilot_Adv-15	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850306	Block 503	S50303	External	Manual	LB	BRE	WHI_PTEE_Enlargement_Adv-180	04/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850307	Block 503	S50303	External	Manual	LB	BRE	WHI_PTEE_Enlargement_Adv-180	04/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850308	Block 503	S50301	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850309	Block 503	S50301	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850310	Block 503	S50301	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-4850311	Block 503	S50301	External	Manual	LB	BRE	WHI_VA1_Pilot_Adv-17	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed



WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors													04/03/2016		
													<span style="background-color: #90EE90; border: 1px solid black;">&lt; 2.0 mm</span> <span style="background-color: #FFD700; border: 1px solid black;">&lt; 3.5 mm</span> <span style="background-color: #FF0000; border: 1px solid black;">&gt; 3.5 mm</span>		
													AVERAGE SETTLEMENT TREND 		
C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status	
C510-L850312	Block 503	S50301	External	Manual	LB	BRE	WHI_VA1_Pilot_Adv-17	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850313	Block 503	S50301	External	Manual	LB	BRE	WHI_VA1_Pilot_Adv-17	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850420	Block 504	S50401	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	29/11/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850421	Block 504	S50401	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/07/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850422	Block 504	S50401	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	29/11/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850423	Block 504	S50401	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	29/11/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850424	Block 504	S50401	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	29/11/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850425	Block 504	S50402	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/07/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850426	Block 504	S50402	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850427	Block 504	S50402	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850428	Block 504	S50402	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850429	Block 504	S50403	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-14	22/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850430	Block 504	S50403	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850431	Block 504	S50403	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850432	Block 504	S50403	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850433	Block 504	S50403;S50404	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850434	Block 504	S50404	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850435	Block 504	S50404;S50408	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850436	Block 504	S50404;S50408	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850437	Block 504	S50404	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850438	Block 504	S50404	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850439	Block 504	S50404	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850440	Block 504	S50404	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850441	Block 504	S50404;S50405	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850442	Block 504	S50405	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850443	Block 504	S50405	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850444	Block 504	S50405	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850445	Block 504	S50405;S50401	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850446	Block 504	S50401	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850447	Block 504	S50403;S50406	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850448	Block 504	S50406	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850449	Block 504	S50406	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850450	Block 504	S50406	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850451	Block 504	S50406	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850452	Block 504	S50406	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850453	Block 504	S50406;S50407;S50408	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850454	Block 504	S50407;S50408	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850455	Block 504	S50407	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850456	Block 504	S50407	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850457	Block 504	S50407	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850458	Block 504	S50407	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850459	Block 504	S50407	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850460	Block 504	S50407	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850461	Block 504	S50402;S50407	External	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850462	Block 504	S50408	Internal	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	24/03/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850463	Block 504	S50408	Internal	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850464	Block 504	S50408	Internal	Manual	LB	BRE	WHI_EP2_Enlargement_Adv-25	24/11/2013	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850501	Block 505	S50501	External	Manual	LB	BRE	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850502	Block 505	S50501	External	Manual	LB	BRE	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850503	Block 505	S50501	External	Manual	LB	BRE	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	22/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850504	Block 505	S50501	External	Manual	LB	BRE	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850505	Block 505	S50502	External	Manual	LB	BRE	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850506	Block 505	S50502	External	Manual	LB	BRE	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	
C510-L850508	Block 505	S50502	External	Manual	LB	BRE	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed	

## WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

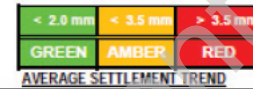
04/03/2016



C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LB50509	Block 505	S50502	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50510	Block 505	S50502	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50511	Block 505	S50502	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50516	Block 505	S50503	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/07/2016	#N/A	#N/A	#N/A	Re-installed by property owner	Destroyed
C510-LB50519	Block 505	S50504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/07/2016	#N/A	#N/A	#N/A	Re-installed by property owner	Destroyed
C510-LB50520	Block 505	S50504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/07/2016	#N/A	#N/A	#N/A	Re-installed by property owner	Destroyed
C510-LB50523	Block 505	S50504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	09/11/2015	#N/A	#N/A	#N/A	Re-installed by property owner	Destroyed
C510-LB50526	Block 505	S50505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	05/07/2016	#N/A	#N/A	#N/A	Re-installed by property owner	Destroyed
C510-LB50528	Block 505	S50505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	15/09/2014	#N/A	#N/A	#N/A	Re-installed by property owner	Destroyed
C510-LB50529	Block 505	S50505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	08/12/2016	#N/A	#N/A	#N/A	Re-installed by property owner	Destroyed
C510-LB50532	Block 505	S50506	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	#N/A	#N/A	#N/A	Re-installed by property owner	Destroyed
C510-LB50535	Block 505	S50507	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50536	Block 505	S50507	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50537	Block 505	S50507	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50538	Block 505	S50507	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50539	Block 505	S50507	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50540	Block 505	S50507	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50541	Block 505	S50507	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50542	Block 505	S50508	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50543	Block 505	S50508	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50544	Block 505	S50508	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	22/04/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50545	Block 505	S50508	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50546	Block 505	S50508	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50567	Block 505	S50510	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	22/04/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-LB50568	Block 505	S50508	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	16/01/2017	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB50569	Block 505	S50501	External	Manual	LB	BRE	WHI_CP2S_EnlargementInve+0_Adv-1	04/11/2014	15/10/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LB51009	Block 510	S51001	External	Manual	LB	BRE	WHI_XDV_Ending-0_Adv-9	14/09/2014	15/01/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-LB51007	Block 510	S51003	External	Manual	LB	BRE	WHI_XDV_Ending-0_Adv-8	13/09/2014	28/11/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-LB51008	Block 510	S51003	External	Manual	LB	BRE	WHI_XDV_Ending-0_Adv-8	13/09/2014	28/11/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-LB51013	Block 510	S51003	External	Manual	LB	BRE	WHI_XDV_Ending-0_Adv-3	09/09/2014	03/11/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-LC50201	Block 502	S50201	External	Manual	LC	Invar Scale	WHI_EP2_Enlargement_Adv-25	24/11/2013	09/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LC50202	Block 502	S50201	External	Manual	LC	Invar Scale	WHI_EP2_Enlargement_Adv-25	24/11/2013	09/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LC50203	Block 502	S50201	External	Manual	LC	Invar Scale	WHI_EP2_Enlargement_Adv-25	24/11/2013	09/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-LP256871	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP256877	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP257871	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP257877	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP258871	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP258977	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP259871	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP259977	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP260971	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP260977	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP261971	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP261977	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP262971	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP263277	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP263777	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP264071	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP264877	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP264971	LO	N/A	Internal	Manual	LP	Road Stud	00/01/1900	00/01/1900	00/01/1900	#N/A	#N/A	#N/A	Unknown	Agreed
C510-LP50201	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-LP50202	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-LP50203	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete

## WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

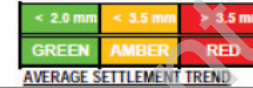
04/03/2016



C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-SP50204	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50205	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50206	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50207	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50208	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50209	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50210	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50211	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50212	Block 503	S50301	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50213	Block 503	S50301	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50214	Block 503	S50301;S50302	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50215	Block 503	S50301	External	Manual	LP	Road Stud	WHI_VA2_Pilot_Adv-15	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50216	Block 503	S50301	External	Manual	LP	Road Stud	WHI_VA2_Pilot_Adv-15	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50217	Block 503	S50301	External	Manual	LP	Road Stud	WHI_VA2_Pilot_Adv-9	06/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50218	Block 503	S50301	External	Manual	LP	Road Stud	WHI_PTEE_Enlargement_Adv-180	04/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50220	Block 504	S50405	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	06/10/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50221	Block 504	S50405	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	06/10/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50222	Block 504	S50405	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	06/10/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50223	Block 504	S50405	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	06/10/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50224	Block 504	S50405	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	06/10/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50225	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50226	Block 502	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50301	Block 504	S50461	External	Manual	LP	Road Stud	WHI_VA1_Pilot_Adv-17	11/08/2013	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50302	Block 504	S50461	External	Manual	LP	Road Stud	WHI_VA1_Pilot_Adv-17	11/08/2013	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50303	Block 504	S50461;S52104	External	Manual	LP	Road Stud	WHI_VA1_Pilot_Adv-17	11/08/2013	22/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50304	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50305	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50306	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50307	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50308	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50309	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50310	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50311	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50312	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50313	Block 503	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50316	Block 503	S50461	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50317	Block 503	S50461	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50318	Block 503	S50461	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50418	Block 504	N/A	Internal	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50419	Block 504	N/A	Internal	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50420	Block 503	S50302	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50421	Block 503	S50302	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50422	Block 503	S50302	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50423	Block 503	S50302	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50424	Block 503	S50302	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50425	Block 503	S50302;S50303	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50426	Block 503	S50303	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50427	Block 503	S50303	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50428	Block 503	S50303	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50429	Block 503	S50303	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50430	Block 503	S50303	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50431	Block 521	S50451;S52104	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	07/05/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50432	Block 521	S50451;S52104	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	07/05/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50433	Block 521	S50451;S52104	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	07/05/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed

## WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

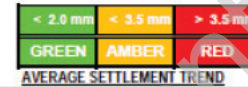
04/03/2016



CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-SP50434	Block 521	SS0451;SS2104	External	Manual	LP	Road Stud	WHL_CP3_Enlargement_Adv-56	05/09/2013	07/05/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50435	Block 521	SS0451;SS2104	External	Manual	LP	Road Stud	WHL_CP3_Enlargement_Adv-56	05/09/2013	07/05/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50436	Block 521	SS0451;SS2104	External	Manual	LP	Road Stud	WHL_CP3_Enlargement_Adv-56	05/09/2013	07/05/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50437	Block 521	SS0451;SS2104	External	Manual	LP	Road Stud	WHL_PTWW_Enlargement_Adv-36	16/06/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50438	Block 504	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-SP50439	Block 504	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-SP50440	Block 504	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-SP50441	Block 504	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-SP50442	Block 504	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-SP50443	Block 504	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-SP50444	Block 504	N/A	External	Manual	LP	Road Stud	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-SP50445	Block 504	SS0401	External	Manual	LP	Road Stud	WHL_PTEE_Plot_Adv-27	29/10/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50446	Block 504	SS0401	External	Manual	LP	Road Stud	WHL_PTEE_Plot_Adv-27	29/10/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50447	Block 504	SS0401	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-14	22/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50448	Block 504	SS0401	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50449	Block 504	SS0401	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50450	Block 504	SS0401;SS0403	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50451	Block 504	SS0401	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50452	Block 504	SS0401;SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50453	Block 504	SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50454	Block 504	SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50455	Block 504	SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50456	Block 504	SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50457	Block 504	SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	12/07/2013	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50458	Block 504	SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50459	Block 504	SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50460	Block 504	SS0402	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50461	Block 504	SS0403	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	26/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50462	Block 504	SS0403	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50463	Block 504	SS0403	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	26/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50464	Block 504	SS0403	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50465	Block 504	SS0403	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	26/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50466	Block 504	SS0403	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50467	Block 504	SS0403	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-20	24/11/2013	26/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50468	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_EP2_Enlargement-0_Adv-24	24/11/2013	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50469	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_EP2_Enlargement-0_Adv-24	24/11/2013	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50470	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_EP2_Enlargement-0_Adv-24	24/11/2013	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50471	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_EP2_Enlargement-0_Adv-24	24/11/2013	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50472	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50473	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	12/07/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50474	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50475	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_SEPT_Enlargement-Part3e_Adv-188	24/06/2013	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50476	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_VA4_Full-0_Adv-7	05/08/2013	12/07/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50477	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_VA4_Full-0_Adv-14	10/08/2013	12/07/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50478	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_VA4_Full-0_Adv-3	04/08/2013	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50479	Block 504	SS0451	External	Manual	LP	Road Stud	WHL_SEPT_Enlargement-0_Adv-104	26/04/2013	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50480	Block 504	SS0404	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	28/10/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50481	Block 504	SS0404	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	06/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50482	Block 504	SS0404	External	Manual	LP	Road Stud	WHL_EP2_Enlargement_Adv-25	24/11/2013	06/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50501	Block 505	SS0506	External	Manual	LP	Road Stud	WHL_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50502	Block 505	SS0501	External	Manual	LP	Road Stud	WHL_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50503	Block 505	SS0501	External	Manual	LP	Road Stud	WHL_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50504	Block 505	SS0501	External	Manual	LP	Road Stud	WHL_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50505	Block 505	SS0501	External	Manual	LP	Road Stud	WHL_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed

## WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

04/03/2016



CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	AVERAGE SETTLEMENT TREND			Decommissioning Status Comment	Decommissioning Status
										Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days		
CS10-SP50506	Block 505	S50501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50507	Block 505	S50501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50508	Block 505	S50501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50509	Block 505	S50501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50510	Block 505	S50501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50511	Block 505	S50501;S50502	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50512	Block 505	S50501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50513	Block 505	S50501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50514	Block 505	S50501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50515	Block 505	S50505	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50516	Block 505	S50502	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50517	Block 505	S50502	External	Manual	LP	Road Stud	WHI_EPW1ES1_EnlargementWest_Adv-11	16/02/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50518	Block 505	S50502	External	Manual	LP	Road Stud	WHI_EPW1ES1_EnlargementWest_Adv-18	10/04/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50519	Block 505	S50502	External	Manual	LP	Road Stud	WHI_EPW1ES1_EnlargementWest_Adv-29	12/04/2014	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50520	Block 505	S50502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50521	Block 505	S50502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50522	Block 505	S50502;S50503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	19/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50523	Block 505	S50503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50524	Block 505	S50503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50525	Block 505	S50503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50527	Block 505	S50504	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	14/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50528	Block 505	S50504	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	14/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50529	Block 505	S50504	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	08/06/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50530	Block 505	S50505	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50531	Block 505	S50505	External	Manual	LP	Road Stud	WHI_EPW1ES1_EnlargementWest_Adv-33	13/04/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50532	Block 505	S50505	External	Manual	LP	Road Stud	WHI_EPW1ES1_EnlargementWest_Adv-21	10/04/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50533	Block 505	S50505	External	Manual	LP	Road Stud	WHI_EPW1ES1_EnlargementWest_Adv-9	16/02/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50534	Block 505	S50505	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50535	Block 505	S50505	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50539	Block 505	S50506	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50540	Block 505	S50506	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50541	Block 505	S50506	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50542	Block 505	S50506	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50543	Block 505	S50506	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50544	Block 505	S50506	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50545	Block 505	S50506	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50546	Block 505	S50506	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	20/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-SP50552	Block 505	S50502;S50508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	05/07/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50553	Block 505	S50508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/10/2012	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50554	Block 505	S50508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/03/2013	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50555	Block 505	S50508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/04/2013	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50556	Block 505	S50508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/04/2013	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50557	Block 505	S50508	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	08/09/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50701	Block 507	S50701	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/09/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50702	Block 507	S50701	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/09/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50703	Block 507	S50701	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/09/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50704	Block 507	S50701	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	12/09/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50709	Block 507	S50704	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-7	16/09/2015	20/01/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50710	Block 507	S50704	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	20/01/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50711	Block 507	S50704	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	06/04/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50712	Block 507	S50704	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	17/05/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50713	Block 507	S50704	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/05/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50714	Block 507	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	24/09/2012	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-SP50715	Block 507	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	24/09/2012	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed

## WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

04/03/2016

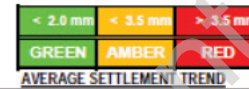
< 2.0 mm
< 3.5 mm
> 3.5 mm

AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 100 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-SP50716	Block 507	N/A	External	Manual	LP	Road Stud	#N/A	#N/A	24/09/2012	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50717	Block 507	S50703	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/12/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50718	Block 507	S50703	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	05/09/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50719	Block 507	S50703	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	02/12/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50720	Block 507	S50704	External	Manual	LP	Road Stud	WHI_VAS_Enlargement-0_Adv-58	05/05/2014	20/01/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50721	Block 507	S50704	External	Manual	LP	Road Stud	WHI_VAS_Enlargement-0_Adv-54	05/05/2014	20/01/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50722	Block 507	S50704	External	Manual	LP	Road Stud	WHI_VAS_Enlargement-0_Adv-51	04/05/2014	05/09/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50723	Block 507	S50703	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/04/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50724	Block 507	S50703	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	17/09/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50725	Block 507	S50703	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	13/11/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50726	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/03/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50727	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/03/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50728	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/03/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50729	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/03/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50730	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/03/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50731	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/03/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50732	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/02/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50733	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/03/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50734	Block 507	S50751	External	Manual	LP	Road Stud	#N/A	#N/A	12/03/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50804	Block 508	S50101,S50801	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	04/03/2016	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50805	Block 508	S50801	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	06/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50806	Block 508	N/A	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	08/10/2014	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50807	Block 508	N/A	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/09/2014	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50808	Block 508	S50802	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	04/02/2015	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50809	Block 508	S50802	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	25/02/2015	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50810	Block 508	S50802	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	25/02/2015	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50811	Block 508	S50802	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	25/02/2015	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50812	Block 508	S50802	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	04/02/2015	#N/A	#N/A	#N/A	Sensor Terminated	Complete
C510-SP50827	Block 508	S50805	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	07/03/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50828	Block 508	S50805	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	09/06/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50830	Block 508	S50805	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	12/12/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50833	Block 508	S50806	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	14/03/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50834	Block 508	S50801	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	06/10/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50835	Block 508	S50801,S50802	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	30/09/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50842	Block 508	S50807	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	21/01/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50904	Block 509	S50901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50916	Block 509	S50902,S50905	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50917	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50918	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50919	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50920	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50922	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-3	09/09/2014	13/04/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50923	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-8	13/09/2014	13/04/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50924	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50925	Block 509	N/A	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50928	Block 509	S50903,S50904,S50907	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50931	Block 509	S50903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50932	Block 509	S50903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50933	Block 509	S50903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50934	Block 509	S50903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50935	Block 509	S50903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50936	Block 509	S50903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50937	Block 509	S50903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50938	Block 509	S50903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed

WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

04/03/2016



C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-SP50939	Block 509	SS0903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50940	Block 509	SS0903;SS0906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	07/12/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50941	Block 509	SS0903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50942	Block 509	SS0903	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50944	Block 509	SS0903;SS0906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50946	Block 509	SS0906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP50948	Block 509	SS0902	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50949	Block 509	SS0902	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50950	Block 509	SS0902	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50951	Block 509	SS0902	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50952	Block 509	SS0902	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50953	Block 509	SS0907	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50954	Block 509	SS0907	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50955	Block 509	SS0907	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50956	Block 509	SS0907	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50957	Block 509	SS0907	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50958	Block 509	SS0907	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50959	Block 509	SS0907	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50960	Block 509	SS0902;SS0906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	05/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP50961	Block 509	SS0906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	03/10/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-SP51467	Block 504	SS0406	External	Manual	LP	Road Stud	WHI_PTEE_Plot_Adv-27	29/10/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP51468	Block 504	SS0406	External	Manual	LP	Road Stud	WHI_PTEE_Plot_Adv-27	29/10/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP51469	Block 504	SS0406	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-14	22/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP51470	Block 504	SS0406	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	07/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP51471	Block 504	SS0406	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	06/10/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP51472	Block 504	SS0406	External	Manual	LP	Road Stud	WHI_EP2_Enlargement_Adv-25	24/11/2013	08/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52103	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52102	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52103	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52104	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52105	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52106	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52107	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52108	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/11/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52109	Block 521	SS2101	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52110	Block 521	SS2101;SS2102	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52111	Block 521	SS2102	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52112	Block 521	SS2102	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52113	Block 521	SS2102	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52114	Block 521	SS2102	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52115	Block 521	SS2102	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52116	Block 521	SS2102	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52117	Block 521	SS2102	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52118	Block 521	SS2102	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52125	Block 521	SS2103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52126	Block 521	SS2103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52127	Block 521	SS2103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	29/01/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52200	Block 522	SS2201	External	Manual	LP	Road Stud	WHI_SEPT_Enlargement-Part3a_Adv-188	24/06/2013	29/01/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52201	Block 522	SS2201	External	Manual	LP	Road Stud	WHI_SEPT_Enlargement-Part3a_Adv-188	24/06/2013	29/01/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52202	Block 522	SS2201	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-7	05/08/2013	28/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52203	Block 522	SS2201	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-14	10/08/2013	28/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52204	Block 522	SS2201	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-14	10/08/2013	28/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52205	Block 522	SS2201	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-14	10/08/2013	29/01/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-SP52206	Block 522	SS2201;SS2202	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-12	09/08/2013	28/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed

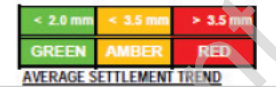




WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors											04/03/2016			<div style="display: flex; justify-content: space-around; align-items: center;"> <span style="border: 1px solid black; padding: 2px;">&lt; 2.0 mm</span> <span style="border: 1px solid black; padding: 2px;">&lt; 3.5 mm</span> <span style="border: 1px solid black; padding: 2px;">&gt; 3.5 mm</span> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> <span style="background-color: green; color: white; padding: 2px;">GREEN</span> <span style="background-color: orange; color: white; padding: 2px;">AMBER</span> <span style="background-color: red; color: white; padding: 2px;">RED</span> </div>			AVERAGE SETTLEMENT TREND	
CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status				
CS10-LP52349	Block 523	SS2305	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	29/09/2013	#N/A	#N/A	#N/A	Sensor Terminated	Agreed				
CS10-LP52350	Block 523	SS2305	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	26/09/2013	#N/A	#N/A	#N/A	Sensor Terminated	Agreed				
CS10-LP52351	Block 523	SS2305,SS2306	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	24/09/2013	#N/A	#N/A	#N/A	Sensor Terminated	Agreed				
CS10-LP52352	Block 523	SS2307	External	Manual	LP	Road Stud	WHI_CP3_Enlargement-NtoS_Adv-22	28/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52353	Block 523	SS2307	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52354	Block 523	SS2307	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52355	Block 523	SS2307	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52356	Block 523	SS2307	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52401	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_SEPT_Enlargement-Part3a_Adv-188	24/06/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52402	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_SEPT_Enlargement-Part3a_Adv-188	24/06/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52403	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_SEPT_Enlargement-Part3a_Adv-188	24/06/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52404	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_NEPT_Enlargement-Part2b_Adv-177	03/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52405	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-19	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52406	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-19	11/08/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52407	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-19	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52408	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-18	13/08/2013	05/08/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52409	Block 524	SS2401,SS2402	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	05/11/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52410	Block 524	SS2401	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52411	Block 524	SS2402	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-19	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52412	Block 524	SS2402	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-19	11/08/2013	05/02/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52413	Block 524	SS2402	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-19	11/08/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52414	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_VA4_Full-0_Adv-19	11/08/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52415	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52416	Block 524	SS2401,SS2403	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52417	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52418	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52419	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52420	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52421	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52422	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	21/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52423	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	18/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52424	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	14/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52425	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	14/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52426	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	14/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52427	Block 524	SS2403	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	05/11/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52428	Block 524	SS2403,SS2404	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	14/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52429	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	14/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52430	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	14/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52431	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52432	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52433	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	05/11/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52434	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52435	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-19	13/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52436	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_VA2_Full-0_Adv-5	11/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52437	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_NEPT_Enlargement-Part2b_Adv-177	03/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52438	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_NEPT_Enlargement-Part2b_Adv-177	03/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52439	Block 524	SS2404	External	Manual	LP	Road Stud	WHI_NEPT_Enlargement-Part2b_Adv-177	03/08/2013	04/03/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52501	Block 525	SS2501	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	22/07/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed				
CS10-LP52524	Block 525	SS2503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	18/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed				
CS10-LP52525	Block 525	SS2503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	08/12/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed				
CS10-LP52601	Block 526	SS2601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/01/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed				
CS10-LP52603	Block 526	SS2601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	30/09/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed				
CS10-LP52718	Block 527	SS2703	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	18/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				
CS10-LP52719	Block 527	SS2703	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	18/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed				

## WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

04/03/2016



CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-LP52720	Block 527	S52703	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-6	13/09/2014	24/04/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-LP52721	Block 527	S52703	External	Manual	LP	Road Stud	WHL_CAVE_Full-0_Adv-49	17/08/2014	18/01/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-LP52722	Block 527	S52703	External	Manual	LP	Road Stud	WHL_CAVE_Full-0_Adv-64	25/08/2014	14/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-LP52723	Block 527	S52703	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	14/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-LP52724	Block 527	S52703	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	14/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-LP52725	Block 527	S52703	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	14/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-LP52726	Block 527	S52703	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	14/04/2016	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-LP52803	Block 528	S52801	External	Manual	LP	Road Stud	WHL_CAVE_Full-0_Adv-31	01/08/2014	07/07/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-LP52820	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-9	14/09/2014	12/07/2016	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-LP52827	Block 528	S52803	External	Manual	LP	Road Stud	WHL_XOV_Ending-0_Adv-6	13/09/2014	04/10/2015	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
CS10-RR50401	Block 504	N/A	External	Manual	RR	Rebo	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-RR50402	Block 504	N/A	External	Manual	RR	Rebo	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-RR50403	Block 504	N/A	External	Manual	RR	Rebo	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-RR50405	Block 504	N/A	External	Manual	RR	Rebo	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-RR50406	Block 504	N/A	External	Manual	RR	Rebo	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-RR50407	Block 504	N/A	External	Manual	RR	Rebo	N/A	N/A	N/A	#N/A	#N/A	#N/A	Sensor Terminated	Complete
CS10-RR50421	Block 504	S50414	External	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-5	26/09/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50422	Block 504	S50414	External	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-25	24/11/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50423	Block 504	S50414	External	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-25	24/11/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50424	Block 504	S50414, S50415	External	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-25	24/11/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50425	Block 504	S50415	External	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-25	24/11/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50426	Block 504	S50415	External	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-16	22/11/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50427	Block 504	S50415	External	Manual	RR	Rebo	WHL_PTEE_Plot_Adv-27	29/10/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50428	Block 504	S50415	External	Manual	RR	Rebo	WHL_PTEE_Plot_Adv-27	29/10/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50429	Block 504	S50415, S50416	External	Manual	RR	Rebo	WHL_PTEE_Plot_Adv-25	28/10/2013	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50430	Block 504	S50416	External	Manual	RR	Rebo	WHL_CP25_Enlargement_Adv-0_Adv-1	04/11/2014	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50431	Block 504	S50416	External	Manual	RR	Rebo	WHL_CP25_Enlargement_Adv-0_Adv-1	04/11/2014	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50432	Block 504	S50416	External	Manual	RR	Rebo	WHL_CP25_Enlargement_Adv-0_Adv-1	04/11/2014	28/09/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50450	Block 504	S50405, S50413	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50451	Block 504	S50406, S50413	Internal	Manual	RR	Rebo	WHL_PTWW_Enlargement_Adv-36	16/06/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50452	Block 504	S50406, S50412	Internal	Manual	RR	Rebo	WHL_PTWW_Enlargement_Adv-36	16/06/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50453	Block 504	S50405, S50412	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50454	Block 504	S50404, S50411	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50455	Block 504	S50404, S50410	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50456	Block 504	S50404, S50409	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50457	Block 504	S50405, S50410	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50458	Block 504	S50405, S50409	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50459	Block 504	S50406, S50410	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50460	Block 504	S50406, S50409	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50461	Block 504	S50404, S50408	Internal	Manual	RR	Rebo	WHL_PTEE_Plot_Adv-24	28/10/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50462	Block 504	S50405, S50408	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50463	Block 504	S50406, S50408	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50464	Block 504	S50401, S50412	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-14	22/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50465	Block 504	S50402, S50413	Internal	Manual	RR	Rebo	WHL_CP3_Enlargement_Adv-56	05/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50466	Block 504	S50402, S50412	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-4	25/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50467	Block 504	S50401, S50413	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-5	26/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50468	Block 504	S50401, S50411	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-23	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50469	Block 504	S50402, S50411	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-13	21/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50470	Block 504	S50401, S50410	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-25	24/11/2013	03/07/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50471	Block 504	S50401, S50409	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50472	Block 504	S50402, S50410	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-17	23/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50473	Block 504	S50402, S50409	Internal	Manual	RR	Rebo	WHL_EP2_Enlargement_Adv-17	23/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50474	Block 504	S50403, S50410	Internal	Manual	RR	Rebo	WHL_PTEE_Plot_Adv-16	25/10/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR50475	Block 504	S50403, S50409	Internal	Manual	RR	Rebo	WHL_PTEE_Plot_Adv-21	27/10/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed

## WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

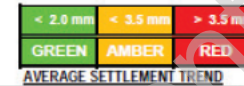
04/03/2016



C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	AVERAGE SETTLEMENT TREND			Decommissioning Status Comment	Decommissioning Status
										Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days		
C510-RR50476	Block 504	S50403,S50408	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-11	21/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50477	Block 504	S50402,S50408	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-22	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50478	Block 504	S50401,S50408	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50479	Block 504	S50401,S50407	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50480	Block 504	S50402,S50407	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-23	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50481	Block 504	S50401	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50482	Block 504	S50403,S50407	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-14	22/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50483	Block 504	S50405,S50411	Internal	Manual	RR	Rebo	WHI_CP3_Enlargement_Adv-56	08/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50484	Block 504	S50406,S50411	Internal	Manual	RR	Rebo	WHI_CP3_Enlargement_Adv-56	08/09/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR50809	Block 508	S50803,S50804	Internal	Manual	RR	Rebo	WHI_BYPS_Full-0_Adv-10	27/01/2016	06/10/2014	#N/A	#N/A	#N/A	Sensor Terminated	Destroyed
C510-RR51402	Block 504	S50404,S50406	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51403	Block 504	S50404,S50405	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51404	Block 504	S50402	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51405	Block 504	S50402,S50405	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	08/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51406	Block 504	S50401,S50405	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51407	Block 504	S50403,S50406	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51408	Block 504	S50402,S50406	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51409	Block 504	S50401,S50406	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51410	Block 504	S50401,S50407	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51411	Block 504	S50403,S50407	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51412	Block 504	S50404,S50408	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51413	Block 504	S50403,S50408	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51414	Block 504	S50402,S50408	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51415	Block 504	S50401,S50410	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	08/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51416	Block 504	S50401,S50409	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51417	Block 504	S50401,S50408	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51418	Block 504	S50402,S50407	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51419	Block 504	S50404,S50407	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51420	Block 504	S50402,S50409	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51422	Block 504	S50404,S50409	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51423	Block 504	S50404,S50410	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51424	Block 504	S50403,S50410	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51425	Block 504	S50402,S50410	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51426	Block 504	S50401	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51427	Block 504	S50403,S50409	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51428	Block 504	S50403,S50405	Internal	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR51429	Block 504	S50403,S50405	Internal	Manual	RR	Rebo	WHI_CP2S_EnlargementInvert-0_Adv-1	04/11/2014	18/12/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53001	Block 502	S50201	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	14/10/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53002	Block 502	S50201	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53003	Block 502	S50201	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53004	Block 502	S50201	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53005	Block 502	S50201	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53006	Block 502	S50201	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-10	21/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53007	Block 502	S50201	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-17	23/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53008	Block 502	S50201	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53009	Block 502	S50201	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53010	Block 502	S50201	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53011	Block 502	S50201	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53012	Block 502	S50202	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-11	21/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53013	Block 502	S50202	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-11	21/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53014	Block 502	S50202	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	13/01/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53015	Block 502	S50202	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-30	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53016	Block 502	S50202	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
C510-RR53017	Block 502	S50202	External	Manual	RR	Rebo	WHI_CP3_Enlargement_Adv-14	27/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed

## WHI Close Out Report - AGREED/DESTROYED/DECOMMISSIONED Monitoring Sensors

04/03/2016



CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-RR53018	Block 502	S50202	External	Manual	RR	Rebo	WHI_CP3_Enlargement_Adv-7	25/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53020	Block 502	S50202	External	Manual	RR	Rebo	WHI_VA2_Pilot_Adv-6	05/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53021	Block 502	S50203	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53022	Block 502	S50203	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53023	Block 502	S50203	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-23	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53024	Block 502	S50203	External	Manual	RR	Rebo	WHI_CP3_Enlargement_Adv-19	28/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53025	Block 502	S50203	External	Manual	RR	Rebo	WHI_CP3_Enlargement_Adv-10	26/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53026	Block 502	S50203	External	Manual	RR	Rebo	WHI_VA2_Pilot_Adv-13	10/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53027	Block 502	S50203	External	Manual	RR	Rebo	WHI_VA2_Pilot_Adv-11	09/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53028	Block 502	S50204	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53029	Block 502	S50204	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53030	Block 502	S50204	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53031	Block 502	S50204	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53032	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-17	23/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53033	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53034	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53035	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53036	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53037	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53038	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53039	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53040	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53041	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53042	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53043	Block 502	S50204	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53044	Block 502	S50205	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	14/10/2014	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53045	Block 502	S50205	External	Manual	RR	Rebo	WHI_PTEE_Pilot_Adv-27	29/10/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53046	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-19	23/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53047	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53048	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53049	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53050	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53051	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53052	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53053	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53054	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53055	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53056	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53057	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53058	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53059	Block 502	S50205	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53060	Block 502	S50206	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53061	Block 502	S50206	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53062	Block 502	S50206	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	16/04/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53063	Block 502	S50206	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53064	Block 502	S50206	External	Manual	RR	Rebo	WHI_EP2_Enlargement_Adv-25	24/11/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53065	Block 502	S50206	External	Manual	RR	Rebo	WHI_VA2_Pilot_Adv-15	11/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53066	Block 502	S50206	External	Manual	RR	Rebo	WHI_VA2_Pilot_Adv-15	11/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53067	Block 502	S50206	External	Manual	RR	Rebo	WHI_VA2_Pilot_Adv-6	05/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed
CS10-RR53068	Block 502	S50206	External	Manual	RR	Rebo	WHI_VA2_Pilot_Adv-15	11/08/2013	15/07/2015	#N/A	#N/A	#N/A	ERP Agreed	Agreed

## Appendix C Whitechapel C510 Monitoring Sensor Listings PROPOSED for decommissioning

WHI Close Out Report - PROPOSED Monitoring Sensors										28/02/2017			<span style="background-color: #90EE90; padding: 2px;">&lt; 2.0 mm</span> <span style="background-color: #FFD700; padding: 2px;">&lt; 3.5 mm</span> <span style="background-color: #FF0000; padding: 2px;">&gt; 3.5 mm</span>			
										<span style="background-color: #90EE90; padding: 2px;">GREEN</span> <span style="background-color: #FFD700; padding: 2px;">AMBER</span> <span style="background-color: #FF0000; padding: 2px;">RED</span>		AVERAGE SETTLEMENT TREND				
C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status		
C510-LB100200	Hanbury St	S51051	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-16	25/07/2014	11/01/2017	2.3mm/yr	2.2mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed		
C510-LB100202	Hanbury St	S51051	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-11	22/07/2014	28/02/2017	4.4mm/yr	3.8mm/yr	-0.5mm/yr	2mm per annum specification met	Proposed		
C510-LB100203	Hanbury St	S51051	External	Manual	LB	BRE	WHI_CAVE_Invert-0_Adv-38	05/07/2014	28/02/2017	-0.7mm/yr	0.8mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed		
C510-LB100204	Hanbury St	S51051	External	Manual	LB	BRE	WHI_CAVE_Invert-Right_Adv-273	19/06/2014	28/02/2017	-2.2mm/yr	-0.6mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed		
C510-LB50101	Block 501	S50101	External	Manual	LB	BRE	WHI_EBRTE_Enlargement_Adv-46	06/04/2014	10/10/2016	2.6mm/yr	1.2mm/yr	0.6mm/yr	2mm per annum specification met	Proposed		
C510-LB50102	Block 501	S50101	External	Manual	LB	BRE	WHI_EBRTE_Enlargement_Adv-46	06/04/2014	10/10/2016	3.1mm/yr	1.2mm/yr	0.1mm/yr	2mm per annum specification met	Proposed		
C510-LB50103	Block 501	S50101	External	Manual	LB	BRE	WHI_EBRTE_Enlargement_Adv-46	06/04/2014	10/10/2016	2.9mm/yr	1.3mm/yr	0.3mm/yr	2mm per annum specification met	Proposed		
C510-LB50104	Block 501	S50101	External	Manual	LB	BRE	WHI_PTEW_Enlargement_Adv-240	01/04/2014	10/10/2016	2.6mm/yr	1.1mm/yr	-0.1mm/yr	2mm per annum specification met	Proposed		
C510-LB50105	Block 501	S50101	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-3	29/08/2015	10/10/2016	2.8mm/yr	1.2mm/yr	-0.2mm/yr	2mm per annum specification met	Proposed		
C510-LB50106	Block 501	S50101	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-15	09/09/2015	10/10/2016	2.6mm/yr	1.6mm/yr	-0.2mm/yr	2mm per annum specification met	Proposed		
C510-LB50107	Block 501	S50101	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-23	16/09/2015	10/10/2016	2.9mm/yr	2.8mm/yr	-1.0mm/yr	2mm per annum specification met	Proposed		
C510-LB50108	Block 501	S50102	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-23	16/09/2015	10/10/2016	3.1mm/yr	1.9mm/yr	-1.1mm/yr	2mm per annum specification met	Proposed		
C510-LB50109	Block 501	S50102	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-23	16/09/2015	10/10/2016	2.6mm/yr	2.7mm/yr	-0.4mm/yr	2mm per annum specification met	Proposed		
C510-LB50110	Block 501	S50102	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-23	16/09/2015	10/10/2016	3.0mm/yr	2.6mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed		
C510-LB50111	Block 501	S50102	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-23	16/09/2015	10/10/2016	2.5mm/yr	2.8mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed		
C510-LB50112	Block 501	S50102	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-23	16/09/2015	10/10/2016	3.4mm/yr	2.9mm/yr	-0.6mm/yr	2mm per annum specification met	Proposed		
C510-LB50113	Block 501	S50102	External	Manual	LB	BRE	WHI_ES1_Enlargement_Adv-23	16/09/2015	10/10/2016	3.2mm/yr	3.2mm/yr	0.2mm/yr	2mm per annum specification met	Proposed		
C510-LB50114	Block 501	S50102/S50103	External	Manual	LB	BRE	WHI_PTEW_Enlargement_Adv-240	01/04/2014	10/10/2016	2.3mm/yr	1.4mm/yr	-0.3mm/yr	2mm per annum specification met	Proposed		
C510-LB50142	Block 501	S50102	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	10/10/2016	2.8mm/yr	2.7mm/yr	-0.6mm/yr	2mm per annum specification met	Proposed		
C510-LB50146	Block 501	S50108	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	-5.0mm/yr	-2.3mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed		
C510-LB50512	Block 505	S50503	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastStub_Adv-9	03/02/2014	06/10/2016	-0.7mm/yr	0.4mm/yr	-0.7mm/yr	2mm per annum specification met	Proposed		
C510-LB50513	Block 505	S50503	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastStub_Adv-9	03/02/2014	06/10/2016	-0.7mm/yr	0.7mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed		
C510-LB50514	Block 505	S50503	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastStub_Adv-9	03/02/2014	06/10/2016	-0.5mm/yr	0.4mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed		
C510-LB50515	Block 505	S50503	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-6	16/02/2014	06/10/2016	-1.3mm/yr	0.2mm/yr	-1.0mm/yr	2mm per annum specification met	Proposed		
C510-LB50518	Block 505	S50504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	06/10/2016	-0.6mm/yr	1.0mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed		
C510-LB50547	Block 505	S50509	External	Manual	LB	BRE	WHI_CP25_Enlargement-Invert-0_Adv-1	04/11/2014	16/01/2017	-3.0mm/yr	-2.8mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed		
C510-LB50548	Block 505	S50509	External	Manual	LB	BRE	WHI_CP25_Enlargement-Invert-0_Adv-1	04/11/2014	16/01/2017	-0.7mm/yr	-2.2mm/yr	-0.6mm/yr	2mm per annum specification met	Proposed		
C510-LB50549	Block 505	S50509	External	Manual	LB	BRE	WHI_CP25_Enlargement-Invert-0_Adv-1	04/11/2014	16/01/2017	-4.1mm/yr	-3.4mm/yr	-0.2mm/yr	2mm per annum specification met	Proposed		
C510-LB50550	Block 505	S50509	External	Manual	LB	BRE	WHI_EPW1_Enlargement-EastStub_Adv-9	03/02/2014	16/01/2017	-5.3mm/yr	-3.9mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed		
C510-LB50551	Block 505	S50509	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-6	16/02/2014	16/01/2017	-5.9mm/yr	-4.1mm/yr	-0.9mm/yr	2mm per annum specification met	Proposed		
C510-LB50552	Block 505	S50509	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-16	10/04/2014	16/01/2017	-6.0mm/yr	-4.5mm/yr	-0.9mm/yr	2mm per annum specification met	Proposed		
C510-LB50553	Block 505	S50509	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-27	11/04/2014	16/01/2017	-4.5mm/yr	-2.4mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed		
C510-LB50555	Block 505	S50509	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	-3.4mm/yr	-3.9mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed		
C510-LB50562	Block 505	S50510	External	Manual	LB	BRE	WHI_EPW1_Enlargement-0_Adv-33	13/04/2014	16/01/2017	-5.6mm/yr	-2.8mm/yr	-1.0mm/yr	2mm per annum specification met	Proposed		
C510-LB50564	Block 505	S50510	External	Manual	LB	BRE	WHI_EPW1ES1_Enlargement-West_Adv-9	16/02/2014	16/01/2017	-4.9mm/yr	-3.4mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed		
C510-LB50565	Block 505	S50510	External	Manual	LB	BRE	WHI_CP25_Enlargement-Invert-0_Adv-1	04/11/2014	16/01/2017	-4.5mm/yr	-3.0mm/yr	-1.1mm/yr	2mm per annum specification met	Proposed		
C510-LB50566	Block 505	S50510	External	Manual	LB	BRE	WHI_CP25_Enlargement-Invert-0_Adv-1	04/11/2014	10/10/2016	-4.5mm/yr	-0.6mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed		
C510-LB50911	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-4	20/01/2016	28/02/2017	-0.8mm/yr	-1.8mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed		
C510-LB50912	Block 509	S50901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-2	18/01/2016	17/01/2017	-0.2mm/yr	-2.3mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed		
C510-LB50913	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	17/01/2017	-7.5mm/yr	-2.5mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed		
C510-LB50914	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	17/01/2017	-6.7mm/yr	-1.9mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed		
C510-LB50915	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	17/01/2017	-7.5mm/yr	-1.4mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed		
C510-LB50916	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	17/01/2017	-4.5mm/yr	-1.1mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed		
C510-LB50917	Block 509	S50901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	17/01/2017	-5.0mm/yr	-0.9mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed		
C510-LB51001	Block 510	S51001	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-0.3mm/yr	-0.3mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed		
C510-LB51002	Block 510	S51001	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-2.3mm/yr	-1.7mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed		
C510-LB51004	Block 510	S51001	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	2.6mm/yr	-0.1mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed		
C510-LB51005	Block 510	S51002	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-33	03/08/2014	28/02/2017	-2.4mm/yr	-1.0mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed		
C510-LB51006	Block 510	S51002	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-33	04/08/2014	28/02/2017	-2.0mm/yr	-2.5mm/yr	-2.2mm/yr	Supplementary evidence supplied	Proposed		
C510-LB51009	Block 510	S51003	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-8	13/09/2014	28/02/2017	1.4mm/yr	-1.7mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed		
C510-LB51010	Block 510	S51003	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-6	13/09/2014	11/01/2017	3.8mm/yr	3.5mm/yr	0.2mm/yr	2mm per annum specification met	Proposed		

## WHI Close Out Report - PROPOSED Monitoring Sensors

28/02/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

## AVERAGE SETTLEMENT TREND

CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-LB51011	Block 510	551003	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-6	13/09/2014	28/02/2017	1.2mm/yr	-1.9mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LB51012	Block 510	551003	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-3	09/09/2014	28/02/2017	2.7mm/yr	-1.3mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LB51014	Block 510	551003	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-64	25/08/2014	28/02/2017	1.6mm/yr	0.2mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LB51015	Block 510	551003	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-64	25/08/2014	28/02/2017	1.2mm/yr	-0.7mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LB51016	Block 510	551003	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-59	24/08/2014	28/02/2017	0.1mm/yr	-1.7mm/yr	-2.1mm/yr	Supplementary evidence supplied	Proposed
CS10-LB51017	Block 510	551003	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-59	24/08/2014	28/02/2017	0.1mm/yr	-0.4mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LB51018	Block 510	551003	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-56	22/08/2014	28/02/2017	2.1mm/yr	-0.2mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LB51019	Block 510	551003	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-51	18/08/2014	11/01/2017	0.5mm/yr	0.9mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LB51020	Block 510	551003	External	Manual	LB	BRE	WHI_CAVE_Full-0_Adv-47	15/08/2014	11/01/2017	1.5mm/yr	4.0mm/yr	0.0mm/yr	2mm per annum specification met	Proposed
CS10-LC50101	Block 501	550102	External	Manual	LC	Invar Scale	WHI_PTEW_Enlargement_Adv-240	01/04/2014	10/10/2016	#N/A	#N/A	#N/A	2mm per annum specification met	Proposed
CS10-LP100101	Hanbury St	551051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-5	18/07/2014	06/10/2016	-0.2mm/yr	-0.3mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP100102	Hanbury St	551051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-12	23/07/2014	06/10/2016	-1.5mm/yr	-1.3mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP100103	Hanbury St	551051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-19	26/07/2014	06/10/2016	-1.1mm/yr	-1.1mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP100109	Hanbury St	551052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-21	27/07/2014	06/10/2016	0.0mm/yr	-0.2mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP100110	Hanbury St	551052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-12	23/07/2014	06/10/2016	-0.8mm/yr	-0.9mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LP100112	Hanbury St	551052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-11	22/07/2014	06/10/2016	1.8mm/yr	0.4mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP100113	Hanbury St	551052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-10	21/07/2014	06/10/2016	-0.4mm/yr	-0.9mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP50103	Block 501	550101	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement_Adv-145	09/07/2013	05/09/2016	#N/A	#N/A	#N/A	2mm per annum specification met	Proposed
CS10-LP50106	Block 501	550101	External	Manual	LP	Road Stud	WHI_EPW/IE_Enlargement_Adv-8	15/02/2014	05/09/2016	#N/A	#N/A	#N/A	2mm per annum specification met	Proposed
CS10-LP50108	Block 501	550101	External	Manual	LP	Road Stud	WHI_EPW/IE_Enlargement_Adv-15	10/04/2014	12/10/2015	#N/A	#N/A	#N/A	2mm per annum specification met	Proposed
CS10-LP50547	Block 505	550507	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	24/02/2017	-2.3mm/yr	-2.3mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP50548	Block 505	550502;550507	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	24/02/2017	-2.1mm/yr	-2.1mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP50549	Block 505	550507	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	24/02/2017	-1.7mm/yr	-1.7mm/yr	-1.1mm/yr	2mm per annum specification met	Proposed
CS10-LP50550	Block 505	550507	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	24/02/2017	-0.5mm/yr	-0.5mm/yr	-0.5mm/yr	2mm per annum specification met	Proposed
CS10-LP50551	Block 505	550507	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	13/04/2016	-1.8mm/yr	-1.8mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LP50601	Block 506	550601	External	Manual	LP	Road Stud	WHI_VAS_Enlargement-0_Adv-27	30/04/2014	14/01/2016	-1.6mm/yr	-1.6mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP50602	Block 506	550601	External	Manual	LP	Road Stud	WHI_EP1_Enlargement-0_Adv-21	25/04/2014	14/01/2016	-1.2mm/yr	-1.2mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP50603	Block 506	550601	External	Manual	LP	Road Stud	WHI_EP1_Enlargement-0_Adv-19	24/04/2014	14/01/2016	-1.2mm/yr	-1.2mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LP50604	Block 506	550601	External	Manual	LP	Road Stud	WHI_EP1_Enlargement-0_Adv-10	23/04/2014	14/01/2016	-1.2mm/yr	-1.2mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP50605	Block 506	550601	External	Manual	LP	Road Stud	WHI_EP1_Enlargement-0_Adv-3	14/10/2013	14/01/2016	-0.4mm/yr	-0.4mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP50843	Block 508	550808	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	08/12/2016	-5.6mm/yr	-5.6mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LP50845	Block 508	550808	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/01/2017	-3.1mm/yr	-3.1mm/yr	-1.0mm/yr	2mm per annum specification met	Proposed
CS10-LP50846	Block 508	550808	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/01/2017	-1.3mm/yr	-1.3mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP50901	Block 509	550901	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-57	18/08/2014	06/10/2016	1.9mm/yr	0.5mm/yr	-0.9mm/yr	2mm per annum specification met	Proposed
CS10-LP50902	Block 509	550901	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-57	18/08/2014	06/10/2016	2.3mm/yr	-0.1mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP50903	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.8mm/yr	-0.7mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP50909	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	3.3mm/yr	-0.2mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LP50910	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.9mm/yr	0.0mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP50911	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.5mm/yr	-0.2mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP50912	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.5mm/yr	0.0mm/yr	-1.1mm/yr	2mm per annum specification met	Proposed
CS10-LP50913	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.5mm/yr	0.0mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP50914	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.9mm/yr	-0.1mm/yr	-0.9mm/yr	2mm per annum specification met	Proposed
CS10-LP50915	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-118	06/08/2014	06/10/2016	0.4mm/yr	-0.9mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP50921	Block 509	550904	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-51	18/08/2014	28/02/2017	11.9mm/yr	1.0mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP50929	Block 509	550904	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	#N/A	#N/A	#N/A	2mm per annum specification met	Proposed
CS10-LP50945	Block 509	550906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	07/12/2016	-0.2mm/yr	-0.2mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP50947	Block 509	550906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	07/12/2016	-1.6mm/yr	-1.6mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LP52001	Block 520	552001	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part1_Adv-137	08/07/2013	06/10/2016	-3.1mm/yr	-0.7mm/yr	0.1mm/yr	2mm per annum specification met	Proposed
CS10-LP52002	Block 520	552001	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part1_Adv-143	09/07/2013	06/10/2016	0.6mm/yr	0.5mm/yr	0.1mm/yr	2mm per annum specification met	Proposed
CS10-LP52003	Block 520	552001	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part2_Adv-146	09/07/2013	06/10/2016	-0.4mm/yr	0.8mm/yr	-0.1mm/yr	2mm per annum specification met	Proposed
CS10-LP52004	Block 520	552001	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part2_Adv-148	10/07/2013	06/10/2016	-0.4mm/yr	0.9mm/yr	-0.5mm/yr	2mm per annum specification met	Proposed

## WHI Close Out Report - PROPOSED Monitoring Sensors

28/02/2017

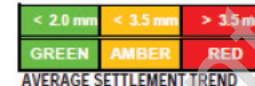
< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

AVERAGE SETTLEMENT TREND

CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-LP52005	Block 520	552001	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part1_Adv-143	09/07/2013	06/10/2016	-0.8mm/yr	0.8mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52006	Block 520	552001	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part1_Adv-143	09/07/2013	06/10/2016	-0.4mm/yr	0.7mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52007	Block 520	552001	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part1_Adv-140	08/07/2013	06/10/2016	-0.8mm/yr	-0.3mm/yr	-1.0mm/yr	2mm per annum specification met	Proposed
CS10-LP52008	Block 520	552001	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part1_Adv-139	08/07/2013	06/10/2016	-0.4mm/yr	0.8mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52009	Block 520	552001	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	5.5mm/yr	0.5mm/yr	-2.5mm/yr	Supplementary evidence supplied	Proposed
CS10-LP52010	Block 520	552001,552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.3mm/yr	-0.1mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52011	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.3mm/yr	0.0mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52015	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	0.7mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52016	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	0.9mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52017	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	0.6mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LP52019	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.8mm/yr	0.7mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52021	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.8mm/yr	7.4mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52022	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	0.8mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52023	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	21/03/2016	-1.9mm/yr	-2.3mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52024	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.6mm/yr	0.9mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52025	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	3.2mm/yr	-0.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52026	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.8mm/yr	0.7mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52028	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.4mm/yr	0.0mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP52029	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	2.0mm/yr	-0.3mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LP52030	Block 520	552003,552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.4mm/yr	0.6mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52031	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	0.0mm/yr	0.9mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52032	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.6mm/yr	0.9mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52033	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	0.6mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP52034	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-2.7mm/yr	-0.8mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52035	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-2.7mm/yr	-1.0mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52036	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-2.4mm/yr	0.2mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52037	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.6mm/yr	0.5mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP52038	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	0.1mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP52039	Block 520	552004	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	0.0mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP52040	Block 520	552004,552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.4mm/yr	-0.4mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52041	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.4mm/yr	0.1mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52042	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.8mm/yr	-0.5mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52043	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.4mm/yr	-0.7mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52044	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.8mm/yr	-0.2mm/yr	-0.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52045	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	0.0mm/yr	-0.3mm/yr	-0.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52046	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-0.4mm/yr	-0.4mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52047	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-2.0mm/yr	-0.7mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52048	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.2mm/yr	-0.9mm/yr	-0.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52049	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.6mm/yr	-0.8mm/yr	-0.6mm/yr	2mm per annum specification met	Proposed
CS10-LP52050	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-1.6mm/yr	-0.3mm/yr	-0.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52051	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-2.0mm/yr	-1.0mm/yr	-0.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52052	Block 520	552005	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	06/10/2016	-3.5mm/yr	-1.4mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52119	Block 521	552102,552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	0.0mm/yr	0.8mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52120	Block 521	552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	0.0mm/yr	0.8mm/yr	-0.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52121	Block 521	552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	0.0mm/yr	1.1mm/yr	-0.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52122	Block 521	552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	0.0mm/yr	1.0mm/yr	-1.1mm/yr	2mm per annum specification met	Proposed
CS10-LP52123	Block 521	552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	0.0mm/yr	0.7mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP52124	Block 521	552103	External	Manual	LP	Road Stud	WHI_EP2_Enlargement-0_Adv-24	24/11/2013	04/03/2016	0.0mm/yr	0.5mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP52502	Block 525	552501	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement-Part2_Adv-161	13/07/2013	06/10/2016	2.2mm/yr	0.4mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP52503	Block 525	552501	External	Manual	LP	Road Stud	WHI_EPW1_Enlargement-EastSub_Adv-9	03/02/2014	06/10/2016	1.4mm/yr	0.2mm/yr	-0.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52504	Block 525	552501	External	Manual	LP	Road Stud	WHI_EPW1_Enlargement-EastSub_Adv-9	03/02/2014	06/10/2016	0.6mm/yr	-0.2mm/yr	-0.4mm/yr	2mm per annum specification met	Proposed

## WHI Close Out Report - PROPOSED Monitoring Sensors

28/02/2017



AVERAGE SETTLEMENT TREND

CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-LP52505	Block 525	552501	External	Manual	LP	Road Stud	WHI_EPW1E51_Enlargement-West_Adv-5	15/02/2014	06/10/2016	-0.1mm/yr	-1.2mm/yr	-0.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52506	Block 525	552501	External	Manual	LP	Road Stud	WHI_EPW1E51_Enlargement-West_Adv-12	08/04/2014	06/10/2016	-0.7mm/yr	-1.4mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP52519	Block 525	552503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	06/10/2016	6.4mm/yr	4.8mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52602	Block 526	552601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-3.5mm/yr	-1.0mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52604	Block 526	552601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.2mm/yr	-0.5mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP52605	Block 526	552601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.4mm/yr	-0.6mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52607	Block 526	552601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.8mm/yr	-0.5mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52608	Block 526	552601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.5mm/yr	-0.1mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52609	Block 526	552601-552602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	2.1mm/yr	-0.2mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52610	Block 526	552602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.4mm/yr	-0.4mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP52611	Block 526	552602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.5mm/yr	-0.2mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52618	Block 526	552603	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.3mm/yr	-1.5mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LP52619	Block 526	552603	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	06/10/2016	1.3mm/yr	-1.1mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-LP52621	Block 526	552603	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	06/10/2016	2.0mm/yr	-0.5mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52622	Block 526	552603	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	06/10/2016	1.8mm/yr	-0.5mm/yr	-1.0mm/yr	2mm per annum specification met	Proposed
CS10-LP52623	Block 526	552603	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	06/10/2016	1.6mm/yr	-0.1mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP52624	Block 526	552603	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	06/10/2016	1.8mm/yr	-1.4mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP52702	Block 527	552701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	-0.3mm/yr	-1.0mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52704	Block 527	552701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.5mm/yr	-1.0mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52705	Block 527	552701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.9mm/yr	-0.5mm/yr	-0.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52706	Block 527	552701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.1mm/yr	-1.0mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP52707	Block 527	552701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	-0.3mm/yr	-1.4mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52708	Block 527	552701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.1mm/yr	-1.2mm/yr	-1.6mm/yr	2mm per annum specification met	Proposed
CS10-LP52709	Block 527	552701-552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.4mm/yr	-1.4mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52711	Block 527	552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.6mm/yr	1.5mm/yr	-0.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52712	Block 527	552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.0mm/yr	-0.5mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52713	Block 527	552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.7mm/yr	-0.5mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52714	Block 527	552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.5mm/yr	-0.4mm/yr	-1.3mm/yr	2mm per annum specification met	Proposed
CS10-LP52715	Block 527	552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.9mm/yr	-0.2mm/yr	-1.2mm/yr	2mm per annum specification met	Proposed
CS10-LP52716	Block 527	552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	-0.1mm/yr	-0.5mm/yr	-1.5mm/yr	2mm per annum specification met	Proposed
CS10-LP52717	Block 527	552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	0.5mm/yr	-0.7mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52800	Block 528	552801	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-31	01/08/2014	06/10/2016	-0.5mm/yr	-0.9mm/yr	-0.7mm/yr	2mm per annum specification met	Proposed
CS10-LP52801	Block 528	552801	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-31	01/08/2014	06/10/2016	-0.4mm/yr	-0.4mm/yr	-0.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52802	Block 528	552801	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-31	01/08/2014	28/02/2017	-4.5mm/yr	-2.5mm/yr	-1.4mm/yr	2mm per annum specification met	Proposed
CS10-LP52831	Block 528	552804	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-64	25/08/2014	28/02/2017	-3.7mm/yr	-1.9mm/yr	-2.0mm/yr	2mm per annum specification met	Proposed
CS10-LP52834	Block 528	552804	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-59	07/08/2014	28/02/2017	-2.4mm/yr	-1.5mm/yr	-1.9mm/yr	2mm per annum specification met	Proposed
CS10-LP52835	Block 528	552804	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-31	01/08/2014	11/01/2017	-0.6mm/yr	-0.5mm/yr	-1.8mm/yr	2mm per annum specification met	Proposed
CS10-RR50820	Block 508	550805	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-1.7mm/yr	-1.7mm/yr	-1.7mm/yr	2mm per annum specification met	Proposed



## Appendix D Whitechapel C510 Monitoring Sensor Listings OUTSTANDING to be continued monitoring

WHI Close Out Report - OUTSTANDING Monitoring Sensors										03/03/2017			<span style="background-color: #90EE90; border: 1px solid black; padding: 2px;">&lt; 2.0 mm</span> <span style="background-color: #FFD700; border: 1px solid black; padding: 2px;">&lt; 3.5 mm</span> <span style="background-color: #FF0000; border: 1px solid black; padding: 2px;">≥ 3.5 mm</span>				
										<span style="background-color: #90EE90; border: 1px solid black; padding: 2px;">GREEN</span> <span style="background-color: #FFD700; border: 1px solid black; padding: 2px;">AMBER</span> <span style="background-color: #FF0000; border: 1px solid black; padding: 2px;">RED</span>							
										AVERAGE SETTLEMENT TREND							
C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status			
C510-LB100205	Hanbury St	S51051	External	Manual	LB	BRE	WHI_CAVE_Invert-Right_Adv-273	19/06/2014	28/02/2017	-2.2mm/yr	-1.6mm/yr	-2.4mm/yr	Supplementary evidence supplied	Outstanding			
C510-LB50143	Block 501	S50108	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-7.8mm/yr	-7.6mm/yr	-2.7mm/yr	Specification not reached	Outstanding			
C510-LB50144	Block 501	S50108	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-8.9mm/yr	-3.6mm/yr	-2.7mm/yr	Specification not reached	Outstanding			
C510-LB50145	Block 501	S50108	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-8.7mm/yr	-3.5mm/yr	-2.6mm/yr	Specification not reached	Outstanding			
C510-LB50147	Block 501	S50108	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	-6.5mm/yr	-2.3mm/yr	-2.4mm/yr	Specification not reached	Outstanding			
C510-LB50517	Block 505	S50503	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-8.9mm/yr	-5.0mm/yr	-2.9mm/yr	Specification not reached	Outstanding			
C510-LB50521	Block 505	S50504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-6.7mm/yr	-5.5mm/yr	-3.2mm/yr	Specification not reached	Outstanding			
C510-LB50522	Block 505	S50504	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-6.5mm/yr	-5.4mm/yr	-2.8mm/yr	Specification not reached	Outstanding			
C510-LB50524	Block 505	S50505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	-5.0mm/yr	-4.9mm/yr	-2.8mm/yr	Specification not reached	Outstanding			
C510-LB50525	Block 505	S50505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	-4.2mm/yr	-4.1mm/yr	-3.1mm/yr	Specification not reached	Outstanding			
C510-LB50527	Block 505	S50505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	-4.5mm/yr	-4.5mm/yr	-2.9mm/yr	Specification not reached	Outstanding			
C510-LB50530	Block 505	S50505	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-10.5mm/yr	-6.8mm/yr	-3.9mm/yr	Specification not reached	Outstanding			
C510-LB50531	Block 505	S50506	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	-2.3mm/yr	-3.6mm/yr	-2.8mm/yr	Specification not reached	Outstanding			
C510-LB50533	Block 505	S50506	External	Manual	LB	BRE	WHI_EPWIES1_Enlargement-West_Adv-12	08/04/2014	16/01/2017	-0.4mm/yr	-3.5mm/yr	-2.2mm/yr	Specification not reached	Outstanding			
C510-LB50534	Block 505	S50506	External	Manual	LB	BRE	WHI_CP25_Enlargement-Invert-0_Adv-1	04/11/2014	28/02/2017	-5.1mm/yr	-4.3mm/yr	-2.5mm/yr	Specification not reached	Outstanding			
C510-LB50554	Block 505	S50509	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	16/01/2017	-3.9mm/yr	-3.1mm/yr	-3.1mm/yr	Specification not reached	Outstanding			
C510-LB50557	Block 505	S50510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-6.1mm/yr	-4.4mm/yr	-2.4mm/yr	Specification not reached	Outstanding			
C510-LB50558	Block 505	S50510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-7.5mm/yr	-4.8mm/yr	-2.9mm/yr	Specification not reached	Outstanding			
C510-LB50559	Block 505	S50510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-7.1mm/yr	-5.3mm/yr	-2.7mm/yr	Specification not reached	Outstanding			
C510-LB50560	Block 505	S50510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-6.4mm/yr	-5.0mm/yr	-2.9mm/yr	Specification not reached	Outstanding			
C510-LB50561	Block 505	S50510	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-5.8mm/yr	-4.1mm/yr	-2.4mm/yr	Specification not reached	Outstanding			
C510-LB50563	Block 505	S50510	External	Manual	LB	BRE	WHI_EPWIES1_Enlargement-West_Adv-23	11/04/2014	28/02/2017	-7.5mm/yr	-4.9mm/yr	-2.3mm/yr	Specification not reached	Outstanding			
C510-LB50701	Block 507	S50701;S50704	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-6.1mm/yr	-6.1mm/yr	-4.0mm/yr	Specification not reached	Outstanding			
C510-LB50702	Block 507	S50701	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-8.0mm/yr	-4.8mm/yr	-3.4mm/yr	Specification not reached	Outstanding			
C510-LB50703	Block 507	S50701;S50702	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-6.1mm/yr	-4.5mm/yr	-4.3mm/yr	Specification not reached	Outstanding			
C510-LB50704	Block 507	S50702	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-6.4mm/yr	-3.5mm/yr	-3.3mm/yr	Specification not reached	Outstanding			
C510-LB50705	Block 507	S50702	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-17	02/10/2015	03/03/2017	-4.5mm/yr	-2.9mm/yr	-3.0mm/yr	Specification not reached	Outstanding			
C510-LB50706	Block 507	S50702;S50703	External	Manual	LB	BRE	WHI_ES1_Pilot-0_Adv-19	16/10/2014	03/03/2017	-4.7mm/yr	-2.0mm/yr	-2.4mm/yr	Specification not reached	Outstanding			
C510-LB50707	Block 507	S50703	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-23	10/10/2015	03/03/2017	-2.6mm/yr	-2.5mm/yr	-2.4mm/yr	Specification not reached	Outstanding			
C510-LB50708	Block 507	S50703;S50704	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	03/03/2017	-2.7mm/yr	-3.2mm/yr	-2.5mm/yr	Specification not reached	Outstanding			
C510-LB50709	Block 507	S50704	External	Manual	LB	BRE	WHI_ES1_Downhill-0_Adv-27	13/10/2015	03/03/2017	-2.9mm/yr	-2.9mm/yr	-3.3mm/yr	Specification not reached	Outstanding			
C510-LB50801	Block 508	S50801;S50802	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-1.6mm/yr	-5.0mm/yr	-3.2mm/yr	Specification not reached	Outstanding			
C510-LB50802	Block 508	S50801	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-2.6mm/yr	-5.5mm/yr	-3.3mm/yr	Specification not reached	Outstanding			
C510-LB50803	Block 508	S50801	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-5.1mm/yr	-4.5mm/yr	-3.1mm/yr	Specification not reached	Outstanding			
C510-LB50804	Block 508	S50801	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-0.6mm/yr	-4.3mm/yr	-3.1mm/yr	Specification not reached	Outstanding			
C510-LB50805	Block 508	S50801	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-3.2mm/yr	-3.9mm/yr	-3.0mm/yr	Specification not reached	Outstanding			
C510-LB50806	Block 508	S50801	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-1.9mm/yr	-3.3mm/yr	-2.8mm/yr	Specification not reached	Outstanding			
C510-LB50807	Block 508	S50801	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-4	20/01/2016	27/02/2017	0.2mm/yr	-2.2mm/yr	-2.4mm/yr	Specification not reached	Outstanding			
C510-LB50808	Block 508	S50801	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-6	25/01/2016	27/02/2017	1.8mm/yr	-2.3mm/yr	-2.6mm/yr	Specification not reached	Outstanding			
C510-LB50809	Block 508	S50801	External	Manual	LB	BRE	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	03/02/2017	-1.0mm/yr	-2.0mm/yr	-2.1mm/yr	Specification not reached	Outstanding			
C510-LB50810	Block 508	S50802	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-5.5mm/yr	-4.3mm/yr	-3.9mm/yr	Specification not reached	Outstanding			
C510-LB50811	Block 508	S50802	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-4.8mm/yr	-3.8mm/yr	-3.8mm/yr	Specification not reached	Outstanding			
C510-LB50812	Block 508	S50802;S50803	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-4.0mm/yr	-3.9mm/yr	-4.2mm/yr	Specification not reached	Outstanding			
C510-LB50813	Block 508	S50803	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-3.8mm/yr	-4.7mm/yr	-4.5mm/yr	Specification not reached	Outstanding			
C510-LB50814	Block 508	S50803	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-3.2mm/yr	-4.7mm/yr	-4.8mm/yr	Specification not reached	Outstanding			
C510-LB50815	Block 508	S50803;S50804	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-3.0mm/yr	-4.1mm/yr	-4.2mm/yr	Specification not reached	Outstanding			
C510-LB50816	Block 508	S50804	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-5.3mm/yr	-4.9mm/yr	-4.5mm/yr	Specification not reached	Outstanding			
C510-LB50817	Block 508	S50804	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-3.7mm/yr	-4.9mm/yr	-4.5mm/yr	Specification not reached	Outstanding			
C510-LB50818	Block 508	S50804;S50805	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-6.1mm/yr	-5.5mm/yr	-4.2mm/yr	Specification not reached	Outstanding			

## WHI Close Out Report - OUTSTANDING Monitoring Sensors

03/03/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

## AVERAGE SETTLEMENT TREND

CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
CS10-LB50819	Block 508	550805	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-2.0mm/yr	-4.0mm/yr	-4.2mm/yr	Specification not reached	Outstanding
CS10-LB50820	Block 508	550805	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-4.0mm/yr	-3.6mm/yr	-3.6mm/yr	Specification not reached	Outstanding
CS10-LB50821	Block 508	550805	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-3.0mm/yr	-3.6mm/yr	-3.6mm/yr	Specification not reached	Outstanding
CS10-LB50822	Block 508	550802	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	08/12/2016	-4.6mm/yr	-6mm/yr	1.1mm/yr	Specification not reached	Outstanding
CS10-LB50823	Block 508	550802	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-5.6mm/yr	-9.9mm/yr	-4.3mm/yr	Specification not reached	Outstanding
CS10-LB50824	Block 508	550802	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-3.1mm/yr	-4.3mm/yr	-2.4mm/yr	Specification not reached	Outstanding
CS10-LB50901	Block 509	550901	External	Manual	LB	BRE	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	18/08/2014	-2.5mm/yr	-2.5mm/yr	-2.7mm/yr	Specification not reached	Outstanding
CS10-LB50902	Block 509	550901	External	Manual	LB	BRE	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	28/02/2017	-2.5mm/yr	-2.2mm/yr	-2.4mm/yr	Specification not reached	Outstanding
CS10-LB50903	Block 509	550901	External	Manual	LB	BRE	WHI_XOV_Enlargement-0_Adv-124	04/09/2014	17/01/2017	6.5mm/yr	-3.9mm/yr	-2.8mm/yr	Specification not reached	Outstanding
CS10-LB50904	Block 509	550901	External	Manual	LB	BRE	WHI_XOV_Ending-0_Adv-9	14/09/2014	17/01/2017	-8.9mm/yr	-2.5mm/yr	-2.7mm/yr	Specification not reached	Outstanding
CS10-LB50905	Block 509	550901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-2	18/01/2016	28/02/2017	-3.6mm/yr	-3.0mm/yr	-2.8mm/yr	Specification not reached	Outstanding
CS10-LB50906	Block 509	550901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-3	18/01/2016	28/02/2017	-3.6mm/yr	-3.2mm/yr	-3.1mm/yr	Specification not reached	Outstanding
CS10-LB50907	Block 509	550901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-4	20/01/2016	28/02/2017	-4.1mm/yr	-4.0mm/yr	-3.3mm/yr	Specification not reached	Outstanding
CS10-LB50908	Block 509	550901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-6	25/01/2016	28/02/2017	-3.3mm/yr	-3.8mm/yr	-3.3mm/yr	Specification not reached	Outstanding
CS10-LB50909	Block 509	550901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-6	25/01/2016	28/02/2017	-3.4mm/yr	-3.3mm/yr	-3.2mm/yr	Specification not reached	Outstanding
CS10-LB50910	Block 509	550901	External	Manual	LB	BRE	WHI_BYPS_Full-0_Adv-6	25/01/2016	28/02/2017	-3.3mm/yr	-3.4mm/yr	-2.7mm/yr	Specification not reached	Outstanding
CS10-LC50801	Block 508	550804	External	Manual	LC	Invar Scale	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-3.1mm/yr	-4.6mm/yr	-4.4mm/yr	Specification not reached	Outstanding
CS10-LC50802	Block 508	550804	External	Manual	LC	Invar Scale	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-3.8mm/yr	-5.2mm/yr	-4.7mm/yr	Specification not reached	Outstanding
CS10-LP100104	Hanbury St	551051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	28/02/2017	-4.6mm/yr	-3.3mm/yr	-2.6mm/yr	Specification not reached	Outstanding
CS10-LP100105	Hanbury St	551051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	28/02/2017	-4.2mm/yr	-3.2mm/yr	-2.8mm/yr	Specification not reached	Outstanding
CS10-LP100106	Hanbury St	551051	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	28/02/2017	-3.9mm/yr	-2.9mm/yr	-2.9mm/yr	Specification not reached	Outstanding
CS10-LP100107	Hanbury St	551051,551052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	28/02/2017	-4.2mm/yr	-2.6mm/yr	-2.4mm/yr	Specification not reached	Outstanding
CS10-LP100108	Hanbury St	551052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-23	29/07/2014	28/02/2017	-4.2mm/yr	-2.7mm/yr	-2.2mm/yr	Specification not reached	Outstanding
CS10-LP100111	Hanbury St	551052	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-12	23/07/2014	28/02/2017	-3.9mm/yr	-3.3mm/yr	-2.7mm/yr	Specification not reached	Outstanding
CS10-LP50101	Block 501	550101	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement_Adv-117	04/07/2013	05/09/2016	#N/A	#N/A	#N/A	Specification not reached	Outstanding
CS10-LP50102	Block 501	550101	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement_Adv-129	07/07/2013	05/09/2016	#N/A	#N/A	#N/A	Specification not reached	Outstanding
CS10-LP50104	Block 501	550101	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement_Adv-152	11/07/2013	05/09/2016	#N/A	#N/A	#N/A	Specification not reached	Outstanding
CS10-LP50105	Block 501	550101	External	Manual	LP	Road Stud	WHI_PTEW_Enlargement_Adv-159	12/07/2013	03/06/2015	#N/A	#N/A	#N/A	Specification not reached	Outstanding
CS10-LP50107	Block 501	550101	External	Manual	LP	Road Stud	WHI_EPWIE_Enlargement_Adv-8	16/02/2014	05/09/2016	#N/A	#N/A	#N/A	Specification not reached	Outstanding
CS10-LP50109	Block 501	550101	External	Manual	LP	Road Stud	WHI_EPWIE_Enlargement_Adv-33	13/04/2014	05/09/2016	#N/A	#N/A	#N/A	Specification not reached	Outstanding
CS10-LP50526	Block 505	550504	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	24/02/2017	-4.0mm/yr	-4.0mm/yr	-2.9mm/yr	Specification not reached	Outstanding
CS10-LP50705	Block 507	550702	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-6.3mm/yr	-4.9mm/yr	-4.0mm/yr	Specification not reached	Outstanding
CS10-LP50706	Block 507	550702	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	03/03/2017	-4.7mm/yr	-3.8mm/yr	-3.3mm/yr	Specification not reached	Outstanding
CS10-LP50707	Block 507	550702	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-17	02/10/2015	03/03/2017	-5.1mm/yr	-3.2mm/yr	-3.0mm/yr	Specification not reached	Outstanding
CS10-LP50708	Block 507	550702	External	Manual	LP	Road Stud	WHI_ES1_Pilot-0_Adv-19	16/10/2014	03/03/2017	-2.8mm/yr	-2.2mm/yr	-2.3mm/yr	Specification not reached	Outstanding
CS10-LP50801	Block 508	550101,550801	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	13/01/2017	-8.2mm/yr	-5.1mm/yr	-2.3mm/yr	Specification not reached	Outstanding
CS10-LP50802	Block 508	550101,550801	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	13/01/2017	-7.1mm/yr	-4.5mm/yr	-2.5mm/yr	Specification not reached	Outstanding
CS10-LP50803	Block 508	550101,550801	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	13/01/2017	-7.4mm/yr	-4.9mm/yr	-2.5mm/yr	Specification not reached	Outstanding
CS10-LP50813	Block 508	550802,550805	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-6.3mm/yr	-4.6mm/yr	-3.0mm/yr	Specification not reached	Outstanding
CS10-LP50814	Block 508	550802,550803	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-6.3mm/yr	-3.5mm/yr	-1.9mm/yr	Specification not reached	Outstanding
CS10-LP50815	Block 508	550803	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-5.8mm/yr	-4.9mm/yr	-3.5mm/yr	Specification not reached	Outstanding
CS10-LP50816	Block 508	550803	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-6.2mm/yr	-5.1mm/yr	-3.4mm/yr	Specification not reached	Outstanding
CS10-LP50817	Block 508	550803	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-5.6mm/yr	-4.4mm/yr	-3.0mm/yr	Specification not reached	Outstanding
CS10-LP50818	Block 508	550803	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-4.6mm/yr	-4.0mm/yr	-2.7mm/yr	Specification not reached	Outstanding
CS10-LP50819	Block 508	550803	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-7	25/01/2016	27/02/2017	-3.5mm/yr	-3.2mm/yr	-2.4mm/yr	Specification not reached	Outstanding
CS10-LP50820	Block 508	550803,550804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	12/01/2017	-3.3mm/yr	-3.6mm/yr	-2.6mm/yr	Specification not reached	Outstanding
CS10-LP50821	Block 508	550804,550807	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	12/01/2017	-2.5mm/yr	-2.9mm/yr	-2.0mm/yr	Specification not reached	Outstanding
CS10-LP50822	Block 508	550804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	12/01/2017	-3.2mm/yr	-3.5mm/yr	-2.1mm/yr	Specification not reached	Outstanding
CS10-LP50823	Block 508	550804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	12/01/2017	-3.6mm/yr	-3.1mm/yr	-1.9mm/yr	Specification not reached	Outstanding

## WHI Close Out Report - OUTSTANDING Monitoring Sensors

03/03/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

## AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LP50824	Block 508	550804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	12/01/2017	-1.8mm/yr	-2.0mm/yr	-1.4mm/yr	Specification not reached	Outstanding
C510-LP50825	Block 508	550804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	27/02/2017	-5.1mm/yr	-7.3mm/yr	-5.8mm/yr	Specification not reached	Outstanding
C510-LP50826	Block 508	550804	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	12/01/2017	-2.0mm/yr	-2.7mm/yr	-1.9mm/yr	Specification not reached	Outstanding
C510-LP50829	Block 508	550805	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	12/01/2017	-7.6mm/yr	-8.3mm/yr	-4.1mm/yr	Specification not reached	Outstanding
C510-LP50831	Block 508	550806	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	27/02/2017	-2.4mm/yr	-2.7mm/yr	-2.1mm/yr	Specification not reached	Outstanding
C510-LP50832	Block 508	550806	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	12/01/2017	-2.8mm/yr	-3.3mm/yr	-2.3mm/yr	Specification not reached	Outstanding
C510-LP50836	Block 508	550803	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-10	27/01/2016	27/02/2017	-5.4mm/yr	-6.9mm/yr	-5.0mm/yr	Specification not reached	Outstanding
C510-LP50837	Block 508	550807	External	Manual	LP	Road Stud	WHI_BYPS_Full-0_Adv-7	25/01/2016	12/01/2017	-9.9mm/yr	-2.2mm/yr	-2.3mm/yr	Specification not reached	Outstanding
C510-LP50838	Block 508	550807	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	08/12/2016	-1.1mm/yr	-4.1mm/yr	-3.3mm/yr	Specification not reached	Outstanding
C510-LP50839	Block 508	550807	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	12/01/2017	-1.0mm/yr	-3.4mm/yr	-2.8mm/yr	Specification not reached	Outstanding
C510-LP50844	Block 508	550808	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	12/01/2017	-3.2mm/yr	-3.2mm/yr	-3.0mm/yr	Specification not reached	Outstanding
C510-LP50905	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.8mm/yr	-4.7mm/yr	-2.8mm/yr	Specification not reached	Outstanding
C510-LP50906	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.9mm/yr	-4.6mm/yr	-2.9mm/yr	Specification not reached	Outstanding
C510-LP50907	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.6mm/yr	-5.1mm/yr	-3.3mm/yr	Specification not reached	Outstanding
C510-LP50908	Block 509	550901	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-5.0mm/yr	-6.3mm/yr	-4.2mm/yr	Specification not reached	Outstanding
C510-LP50926	Block 509	550904;550906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-1.8mm/yr	-3.7mm/yr	-3.8mm/yr	Specification not reached	Outstanding
C510-LP50927	Block 509	550904	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-1.4mm/yr	-2.9mm/yr	-5.5mm/yr	Specification not reached	Outstanding
C510-LP50930	Block 509	550904	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	07/12/2016	#N/A	#N/A	#N/A	Specification not reached	Outstanding
C510-LP50943	Block 509	550905	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	07/12/2016	#N/A	#N/A	#N/A	Specification not reached	Outstanding
C510-LP50962	Block 509	550905	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	-3.4mm/yr	-1.7mm/yr	-3.1mm/yr	Unknown	Outstanding
C510-LP50963	Block 509	550905	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	12/04/2016	-4.8mm/yr	-2.8mm/yr	-2.4mm/yr	Unknown	Outstanding
C510-LP50964	Block 509	550906	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/04/2016	-4.3mm/yr	-4.3mm/yr	-4.3mm/yr	Unknown	Outstanding
C510-LP52012	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	28/02/2017	-0.4mm/yr	-4.4mm/yr	-2.2mm/yr	Specification not reached	Outstanding
C510-LP52013	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	28/02/2017	0.3mm/yr	-3.9mm/yr	-2.0mm/yr	Specification not reached	Outstanding
C510-LP52014	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	14/04/2015	-1.2mm/yr	-3.8mm/yr	-3.2mm/yr	Specification not reached	Outstanding
C510-LP52018	Block 520	552002	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	28/02/2017	-2.1mm/yr	-3.9mm/yr	-2.0mm/yr	Specification not reached	Outstanding
C510-LP52020	Block 520	552002;552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	28/02/2017	-1.5mm/yr	-4.4mm/yr	-2.4mm/yr	Specification not reached	Outstanding
C510-LP52027	Block 520	552003	External	Manual	LP	Road Stud	WHI_CP25_EnlargementInvert-0_Adv-1	04/11/2014	28/02/2017	-1.5mm/yr	-5.2mm/yr	-3.4mm/yr	Specification not reached	Outstanding
C510-LP52507	Block 525	552501	External	Manual	LP	Road Stud	WHI_EPW1E51_Enlargement-West_Adv-21	10/04/2014	28/02/2017	-5.3mm/yr	-5.1mm/yr	-4.2mm/yr	Specification not reached	Outstanding
C510-LP52508	Block 525	552501	External	Manual	LP	Road Stud	WHI_EPW1E51_Enlargement-West_Adv-29	12/04/2014	17/01/2017	-5.2mm/yr	-5.2mm/yr	-4.7mm/yr	Specification not reached	Outstanding
C510-LP52509	Block 525	552501;552502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-5.3mm/yr	-5.2mm/yr	-4.6mm/yr	Specification not reached	Outstanding
C510-LP52510	Block 525	552502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-6.7mm/yr	-5.5mm/yr	-4.4mm/yr	Specification not reached	Outstanding
C510-LP52511	Block 525	552502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-5.5mm/yr	-4.8mm/yr	-3.8mm/yr	Specification not reached	Outstanding
C510-LP52512	Block 525	552502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-6.6mm/yr	-5.6mm/yr	-3.5mm/yr	Specification not reached	Outstanding
C510-LP52513	Block 525	552502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-8.0mm/yr	-7.8mm/yr	-4.2mm/yr	Specification not reached	Outstanding
C510-LP52514	Block 525	552502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-9.1mm/yr	-8.3mm/yr	-4.4mm/yr	Specification not reached	Outstanding
C510-LP52515	Block 525	552502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-9.9mm/yr	-8.4mm/yr	-5.8mm/yr	Specification not reached	Outstanding
C510-LP52516	Block 525	552502	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-9.0mm/yr	-5.7mm/yr	-3.7mm/yr	Specification not reached	Outstanding
C510-LP52517	Block 525	552502;552503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	06/12/2016	-2.4mm/yr	-2.4mm/yr	-2.6mm/yr	Specification not reached	Outstanding
C510-LP52518	Block 525	552503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-8.6mm/yr	-6.6mm/yr	-3.4mm/yr	Specification not reached	Outstanding
C510-LP52520	Block 525	552503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-7.1mm/yr	-6.9mm/yr	-3.7mm/yr	Specification not reached	Outstanding
C510-LP52521	Block 525	552503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-5.4mm/yr	-5.0mm/yr	-3.7mm/yr	Specification not reached	Outstanding
C510-LP52522	Block 525	552503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-7.5mm/yr	-6.3mm/yr	-3.5mm/yr	Specification not reached	Outstanding
C510-LP52523	Block 525	552503	External	Manual	LP	Road Stud	WHI_ES1_Downhill-0_Adv-27	13/10/2015	28/02/2017	-6.4mm/yr	-5.9mm/yr	-4.0mm/yr	Specification not reached	Outstanding
C510-LP52606	Block 526	552601	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.2mm/yr	-1.0mm/yr	-2.3mm/yr	Supplementary evidence supplied	Outstanding
C510-LP52612	Block 526	552602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	06/10/2016	1.3mm/yr	-1.2mm/yr	-2.2mm/yr	Supplementary evidence supplied	Outstanding
C510-LP52613	Block 526	552602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-7.4mm/yr	-3.9mm/yr	-2.6mm/yr	Specification not reached	Outstanding
C510-LP52614	Block 526	552602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-6.5mm/yr	-3.8mm/yr	-2.7mm/yr	Specification not reached	Outstanding
C510-LP52615	Block 526	552602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-7.1mm/yr	-3.9mm/yr	-2.6mm/yr	Specification not reached	Outstanding

## WHI Close Out Report - OUTSTANDING Monitoring Sensors

03/03/2017

< 2.0 mm	< 3.5 mm	> 3.5 mm
GREEN	AMBER	RED

AVERAGE SETTLEMENT TREND

C510 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status
C510-LP52616	Block 526	552602	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-6.1mm/yr	-3.0mm/yr	-2.1mm/yr	Specification not reached	Outstanding
C510-LP52617	Block 526	552602;552603	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-10.1mm/yr	-6.9mm/yr	-5.5mm/yr	Specification not reached	Outstanding
C510-LP52620	Block 526	552603	External	Manual	LP	Road Stud	WHI_LCW_Enlargement-0_Adv-37	18/08/2014	28/02/2017	-5.5mm/yr	-2.9mm/yr	-2.3mm/yr	Specification not reached	Outstanding
C510-LP52701	Block 527	552701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	13/01/2017	-3.9mm/yr	-3.9mm/yr	-2.6mm/yr	Specification not reached	Outstanding
C510-LP52703	Block 527	552701	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-5.6mm/yr	-3.8mm/yr	-3.0mm/yr	Specification not reached	Outstanding
C510-LP52710	Block 527	552702	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-5.3mm/yr	-3.1mm/yr	-2.4mm/yr	Specification not reached	Outstanding
C510-LP52804	Block 528	552801	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-5	11/09/2014	28/02/2017	-4.3mm/yr	-2.8mm/yr	-2.4mm/yr	Specification not reached	Outstanding
C510-LP52805	Block 528	552801	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-8	13/09/2014	11/01/2017	-5.3mm/yr	-3.3mm/yr	-3.6mm/yr	Specification not reached	Outstanding
C510-LP52806	Block 528	552801	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-3.3mm/yr	-4.2mm/yr	-3.4mm/yr	Specification not reached	Outstanding
C510-LP52807	Block 528	552801	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.7mm/yr	-5.0mm/yr	-4.0mm/yr	Specification not reached	Outstanding
C510-LP52808	Block 528	552801	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-3.7mm/yr	-4.6mm/yr	-3.9mm/yr	Specification not reached	Outstanding
C510-LP52809	Block 528	552801;552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-3.9mm/yr	-4.2mm/yr	-3.7mm/yr	Specification not reached	Outstanding
C510-LP52810	Block 528	552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.2mm/yr	-4.0mm/yr	-3.3mm/yr	Specification not reached	Outstanding
C510-LP52811	Block 528	552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.2mm/yr	-3.5mm/yr	-3.1mm/yr	Specification not reached	Outstanding
C510-LP52812	Block 528	552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	11/01/2017	-3.1mm/yr	-3.1mm/yr	-3.3mm/yr	Specification not reached	Outstanding
C510-LP52813	Block 528	552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-5.1mm/yr	-3.6mm/yr	-3.3mm/yr	Specification not reached	Outstanding
C510-LP52814	Block 528	552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.2mm/yr	-2.9mm/yr	-3.0mm/yr	Specification not reached	Outstanding
C510-LP52815	Block 528	552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.1mm/yr	-2.7mm/yr	-2.7mm/yr	Specification not reached	Outstanding
C510-LP52816	Block 528	552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-3.8mm/yr	-2.4mm/yr	-2.5mm/yr	Specification not reached	Outstanding
C510-LP52817	Block 528	552802	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-2.5mm/yr	-2.1mm/yr	-4.2mm/yr	Specification not reached	Outstanding
C510-LP52818	Block 528	552802;552803	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.9mm/yr	-3.0mm/yr	-2.9mm/yr	Specification not reached	Outstanding
C510-LP52819	Block 528	552803	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-5.1mm/yr	-3.5mm/yr	-2.8mm/yr	Specification not reached	Outstanding
C510-LP52821	Block 528	552803	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.3mm/yr	-3.0mm/yr	-2.5mm/yr	Specification not reached	Outstanding
C510-LP52822	Block 528	552803	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-4.0mm/yr	-3.1mm/yr	-2.3mm/yr	Specification not reached	Outstanding
C510-LP52823	Block 528	552803	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	11/01/2017	-2.3mm/yr	-2.3mm/yr	-2.1mm/yr	Specification not reached	Outstanding
C510-LP52824	Block 528	552803	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-5.0mm/yr	-3.6mm/yr	-2.1mm/yr	Specification not reached	Outstanding
C510-LP52825	Block 528	552803	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-3.4mm/yr	-2.4mm/yr	-2.0mm/yr	Specification not reached	Outstanding
C510-LP52826	Block 528	552803	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-9	14/09/2014	28/02/2017	-3.6mm/yr	-2.7mm/yr	-2.9mm/yr	Specification not reached	Outstanding
C510-LP52828	Block 528	552804	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-8	13/09/2014	28/02/2017	-3.0mm/yr	-3.6mm/yr	-2.8mm/yr	Specification not reached	Outstanding
C510-LP52829	Block 528	552804	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-6	13/09/2014	28/02/2017	-3.9mm/yr	-2.6mm/yr	-2.1mm/yr	Specification not reached	Outstanding
C510-LP52830	Block 528	552804	External	Manual	LP	Road Stud	WHI_XOV_Ending-0_Adv-5	11/09/2014	28/02/2017	-4.7mm/yr	-3.2mm/yr	-2.6mm/yr	Specification not reached	Outstanding
C510-LP52832	Block 528	552804	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-58	23/08/2014	28/02/2017	-1.0mm/yr	-1.0mm/yr	-2.3mm/yr	Specification not reached	Outstanding
C510-LP52833	Block 528	552804	External	Manual	LP	Road Stud	WHI_CAVE_Full-0_Adv-47	15/08/2014	28/02/2017	-3.4mm/yr	-2.0mm/yr	-2.1mm/yr	Specification not reached	Outstanding
C510-RR50801	Block 508	550801;550804	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-5.2mm/yr	-5.2mm/yr	-5.2mm/yr	Specification not reached	Outstanding
C510-RR50802	Block 508	550801	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-5.6mm/yr	-5.6mm/yr	-5.6mm/yr	Specification not reached	Outstanding
C510-RR50803	Block 508	550801;550802	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-6.3mm/yr	-6.3mm/yr	-6.3mm/yr	Specification not reached	Outstanding
C510-RR50804	Block 508	550802	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-6.5mm/yr	-6.5mm/yr	-6.5mm/yr	Specification not reached	Outstanding
C510-RR50805	Block 508	550802	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-5.1mm/yr	-5.1mm/yr	-5.1mm/yr	Specification not reached	Outstanding
C510-RR50806	Block 508	550802	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-4.5mm/yr	-4.5mm/yr	-4.5mm/yr	Specification not reached	Outstanding
C510-RR50807	Block 508	550802;550803	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-5.1mm/yr	-5.1mm/yr	-5.1mm/yr	Specification not reached	Outstanding
C510-RR50808	Block 508	550803	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-4.9mm/yr	-4.9mm/yr	-4.9mm/yr	Specification not reached	Outstanding
C510-RR50810	Block 508	550804	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-3.8mm/yr	-3.8mm/yr	-3.8mm/yr	Specification not reached	Outstanding
C510-RR50811	Block 508	550804	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-5.9mm/yr	-5.9mm/yr	-5.9mm/yr	Specification not reached	Outstanding
C510-RR50812	Block 508	550804	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-5.2mm/yr	-5.2mm/yr	-5.2mm/yr	Specification not reached	Outstanding
C510-RR50813	Block 508	550805	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-3.1mm/yr	-3.1mm/yr	-3.1mm/yr	Specification not reached	Outstanding
C510-RR50814	Block 508	550805	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-3.1mm/yr	-3.1mm/yr	-3.1mm/yr	Specification not reached	Outstanding
C510-RR50815	Block 508	550805	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-3.1mm/yr	-3.1mm/yr	-3.1mm/yr	Specification not reached	Outstanding
C510-RR50816	Block 508	550805	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-2.6mm/yr	-2.6mm/yr	-2.6mm/yr	Specification not reached	Outstanding
C510-RR50817	Block 508	550805	Internal	Manual	RR	Retro	WHI_BYPS_Full-0_Adv-10	27/01/2016	13/01/2017	-2.4mm/yr	-2.4mm/yr	-2.4mm/yr	Specification not reached	Outstanding

WHI Close Out Report - OUTSTANDING Monitoring Sensors											03/03/2017			<table border="1"> <tr> <td>&lt; 2.0 mm</td> <td>&lt; 3.5 mm</td> <td>&gt; 3.5 mm</td> </tr> <tr> <td>GREEN</td> <td>AMBER</td> <td>RED</td> </tr> </table>			< 2.0 mm	< 3.5 mm	> 3.5 mm	GREEN	AMBER	RED	AVERAGE SETTLEMENT TREND	
< 2.0 mm	< 3.5 mm	> 3.5 mm																						
GREEN	AMBER	RED																						
CS10 Sensor Name	Block	Section	Int / Ext	Measurement Type	Sensor Type	Sensor Description	EOI Last Primary Layer Construction	Last Construction Date	Latest Surveyed Date	Annual Trend based on 120 Days	Annual Trend based on 180 Days	Annual Trend based on 365 Days	Decommissioning Status Comment	Decommissioning Status										
CS10-RR50818	Block 508	550805	Internal	Manual	RR	Retro	WHI_BYP5_Full-0_Adv-10	27/01/2016	13/01/2017	-2.6mm/yr	-2.5mm/yr	-2.6mm/yr	Specification not reached	Outstanding										
CS10-RR50819	Block 508	550805	Internal	Manual	RR	Retro	WHI_BYP5_Full-0_Adv-10	27/01/2016	13/01/2017	-2.1mm/yr	-2.1mm/yr	-2.1mm/yr	Specification not reached	Outstanding										

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