



C305- Eastern Running Tunnels

I&M Close out report for Section L at The Lower Lea Crossing Site (Drive Y)

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Stakeholder Organisation	Job Title	Name	Signature	Date	Acceptance
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I&M Close out report for Section L at The Lower Lea Crossing Site (Drive Y)

C305 Crossrail Eastern Running Tunnels

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Current Version of the Documents & Signatures :

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APPENDIX A: LOCATION OF THE WORKS

APPENDIX B: SUMMARY OF INSTRUMENTATION INSTALLED ON SITE

APPENDIX C: MINUTES CLOSE OUT MEETING AREA 4

1. CLOSE OUT REPORT PURPOSE

As stated in the specification: C122-OVE-Z4-RSP-CR001-00007 Rev 7.0, the purpose of this close-out report is to summarise the data from the instrumentation included in this document and to relate the recorded movements to the construction activities which produce any observed changes. For construction activities it is intended excavation of the C305 twin bored tunnels and dewatering of cross passages; impacts from cross passage excavation or from other CRL contracts are not included in this report.

The long term readings have been used to demonstrate that the subsequent movement has reached an acceptably stable rate within the accuracy of the system in order to decommission and/or that C305 works are no longer impacting the area concerned.

As stated in the specifications the settlement rate of 2 mm/yr has been defined. Where this is not achieved this report seeks agreement from all parties that the rate is acceptably low enough to cease monitoring and decommission.

The settlement rate of monitoring locations, covered by this close-out report, had generally reached the specified rate of 2mm/year post TBM works but they are located in an area affected by dewatering works associated with cross passage construction. Monitoring of instruments close to the dewatering works is included in this report to provide evidence that settlement due to the dewatering works has now reached the specified rate. Therefore by inference, instruments located in the vicinity of the dewatering would have also reached the specified rate.

2. LOCATION OF THE WORKS

The instrumentation is located in and surrounding Orchard Place, which is situated north of the Lower Lea Crossing viaduct.

The majority of the boreholes are situated in close proximity to the River Lea retaining wall, with the exception of the ones situated on the crown of the tunnel. Originally, the proposed location of the boreholes above the tunnel crown was also adjacent to the retaining wall; however due to the location of the National Grid pipeline these had to be relocated. These boreholes were moved from the retaining wall, along the tunnel alignment to the opposite side of the road and were situated along the highway and pavement of Orchard Place.

The section of boreholes situated to the north of the tunnels, are situated within the open ground of the peninsula, at the northern end of Orchard Place. The section of boreholes situated south of the tunnels, are situated along a public footpath between an industrial yard and the Lea River.

See Appendix A for the location of the works drawings.

3. DOCUMENTATION SUMMARY

CROSSRAIL NUMBER	DOCUMENT NAME	REASON FOR ISSUE	TYPE AND NUMBER OF INSTRUMENTATION INSTALLED
C305-DSJ-GMS-CR144_WS155-50020	Instrumentation "L" at The Lower Lea Crossing Site	Main Method statement	6 Rod Extensometers
			6 Vibrating Wire Piezometers
			4 Inclinometers
C305-DSJ-C2-RGN-CR144_WS155-50004	I&M Installation report for Section L at The Lower Lea Crossing Site (Drive Y)	Installation report	-

4. SUMMARY OF INSTALLED INSTRUMENTATION ON SITE

- 6 Rod extensometers
- 6 Vibrating wire piezometers
- 4 Inclinometers

The commissioning readings included in Appendix B have been used as a baseline to calculate the relative movements provided in the graphs of this report.

The first reading of the baseline is an average of the three commissioning readings taken prior baseline readings.

See Appendix B for further information of the installed instrumentation.

5. CONSTRUCTION ACTIVITY

TBM Passage

DRIVE Y	RINGS	PROJECT CHAINAGE	DATES
Eastbound	69 – 119	84755 – 84674	12/01/2013 to 08/03/2013
Westbound	67 – 117	84755 - 84674	07/02/2013 to 19/03/2013

Stoppage Period:

Eastbound Drive-Y	Ring 87 (Project chainage – 84724.8)	21/01/2013 to 09/02/2013
	Ring 88 (Project chainage – 84723.2)	09/02/2013 to 28/02/2013
Westbound Drive-Y	Ring 87 (Project chainage – 84723.2)	10/02/2013 to 12/02/2013
	Ring 88 (Project chainage – 84721.6)	12/02/2013 to 27/02/2013
	Ring 89 (Project chainage – 84720)	27/02/2013 to 14/03/2013

The periods of TBM passage and stoppage are related to the rings located close to the instrumentation included in this close out report.

DEWATERING

Cross passage 13 26th November 2013 to 3rd August 2015
 Cross passage 14 16th December 2013 to 17th January 2014
 28th July 2014 to 27th July 2015
 Limmo 4th November 2013 (still on)
 Canary Wharf It is understood that Canary Wharf dewatering systems were switched on throughout the monitoring period

6. METHODOLOGY

To determine the settlement rate the following methodology has been used. A Linear Regression has been applied for a defined period using long term readings after TBM construction. This uses the following formula.

$$b = \frac{\sum_{i=1}^n (X_i - \bar{X}_i) \cdot (Y_i - \bar{Y}_i)}{\sum_{i=1}^n (X_i - \bar{X}_i)^2}$$

Where:

B =gradient or slope

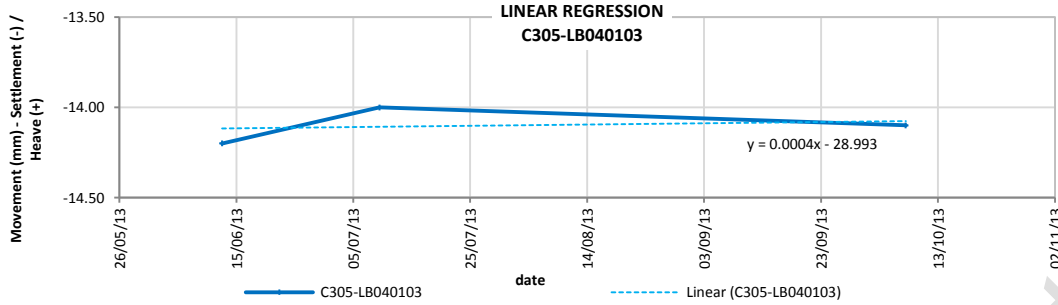
X (independent variable) = date

Y (dependent variable) = vertical movement

From this, the settlement rate per day can be calculated and rate per year determined (negative value is for settlement, positive is for heave). For these values, the percentage at or below 2 mm/yr will be used to determine the trend of the section/area being considered. Also for comparison, values at or below 3mm/year are presented to highlight that the rate is close to achieving the 2 mm/yr. Note the percentages of settlement rate presented in the sections below refer to values rounded to the nearest integer.

One example of this calculation can be seen below for one socket and its projection.

	Registered movement (mm)			RATE mm/year
	12/06/2013	09/07/2013	07/10/2013	
C305-LB040103	-14.20	-14.00	-14.10	0.146



CALCULATION - C305-LB040103

X_i	Y_i	$X_i - \bar{X}_i$	$Y_i - \bar{Y}_i$	$(X_i - \bar{X}_i)^2$	$(X_i - \bar{X}_i) \cdot (Y_i - \bar{Y}_i)$
12/06/2013	-14.2	-47.94	-0.10	2298.67	4.794
09/07/2013	-14	-21.03	0.10	442.17	-2.103
07/10/2013	-14.1	68.97	0.00	4757.17	0.000

\bar{X}_i	41485.53	
\bar{Y}_i	-14.10	
$\sum_{i=1}^n (X_i - \bar{X}_i)^2$	7498.00	(2)
$\sum_{i=1}^n (X_i - \bar{X}_i) \cdot (Y_i - \bar{Y}_i)$	2.692	(1)
m (SLOPE)	(1)/(2)	0.0004
Rate (mm/year)	$m * 365$	0.146

7. SUMMARY OF THE DATA

The methodology described for sockets in section 6 is applied here for rod extensometer sensors.

Note: For the following data plots #N/A refers to instances where readings were not taken for that sensor (e.g. damaged sensor, no access, etc.).

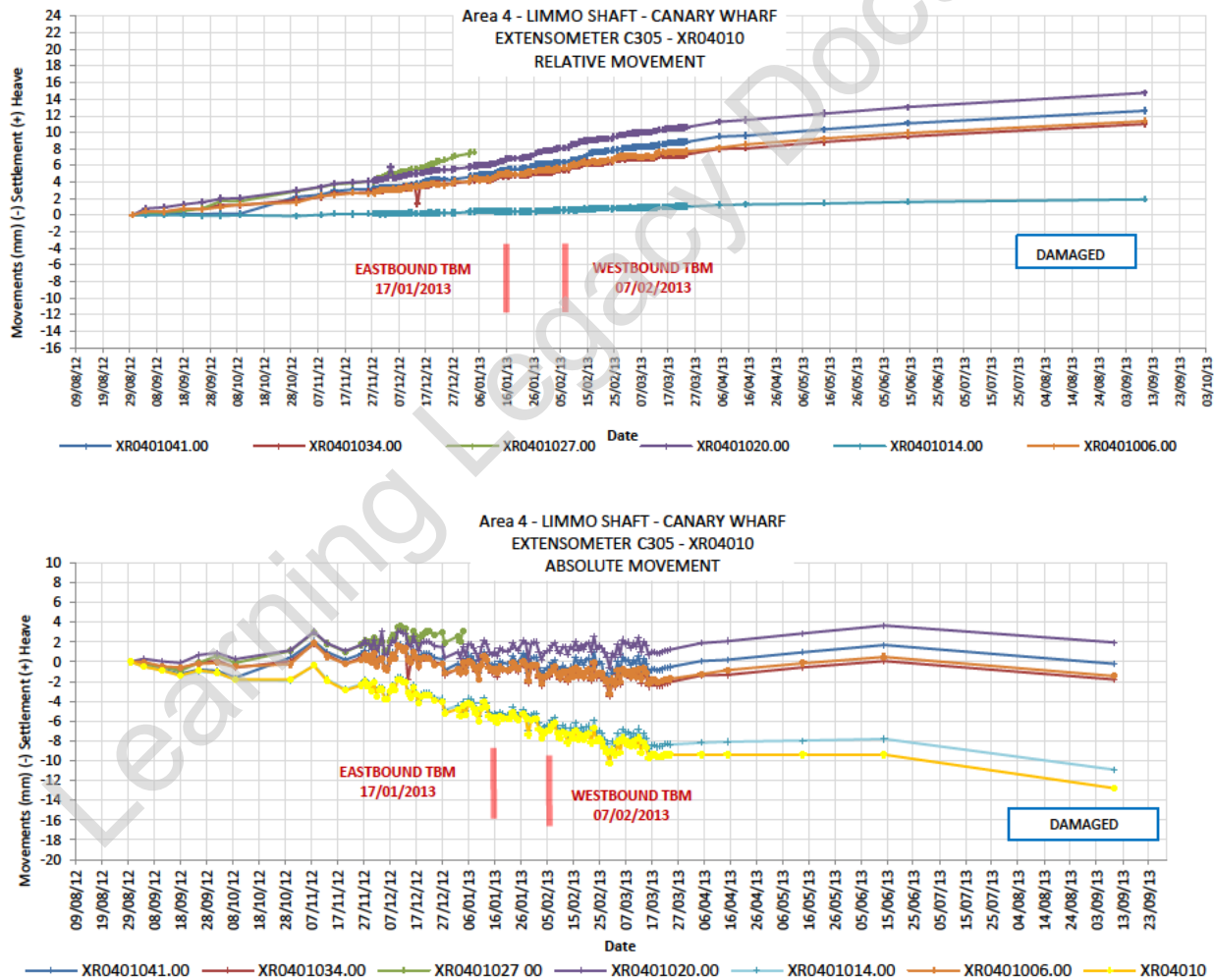
ROD EXTENSOMETERS

- Instrument Type: Rod extensometers
- Quantity: 6

For each rod extensometer two graphs are displayed, showing relative and absolute movements. The relative movement graph represents the movement of the rod extensometers without taking in account the head level elevation whereas in the absolute movement the levelling of the head level has been introduced, adding the value to the relative movement of the rods.

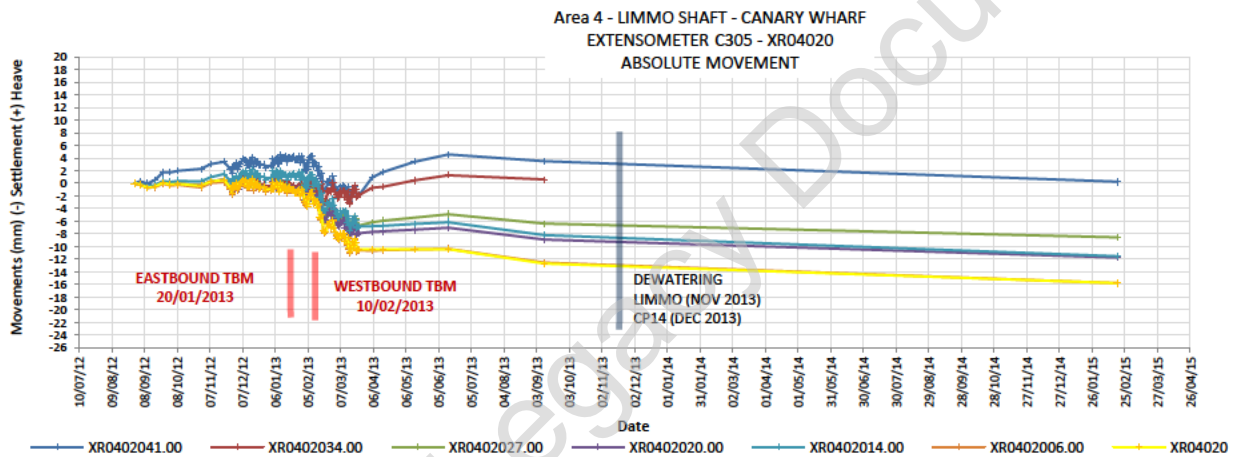
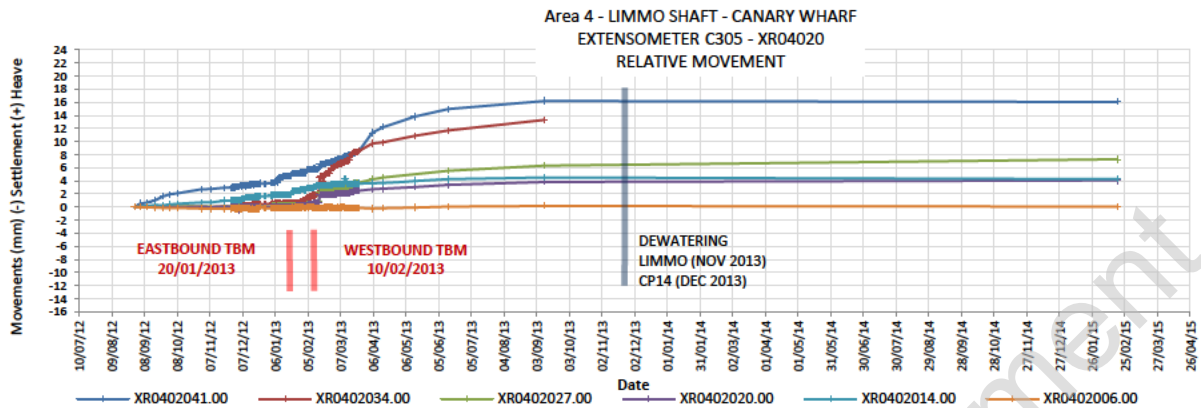
C305-XR04010

Readings of the rod extensometer stopped in September 2013 due to the instrument being damaged by major building works and heavy plant movement.



As can be seen in the graph above the extensometer C305-XR04010 shows an absolute settlement of -8 mm from November 2012 to March 2013.

C305-XR04020



As can be seen in the graph above the extensometer C305-XR04020 shows an absolute settlement of -4 mm during the eastbound TBM transit and an additional -7 mm settlement from the westbound TBM transit.

The effect of the dewatering in the Cross Passage 14 / Limmo can be observed in the graphic above. In order to differentiate the movement due to the TBM transit from the dewatering and analyze whether the rate of change in the data has reached an acceptably small rate, the four readings before the dewatering were used to calculate the annual projection.

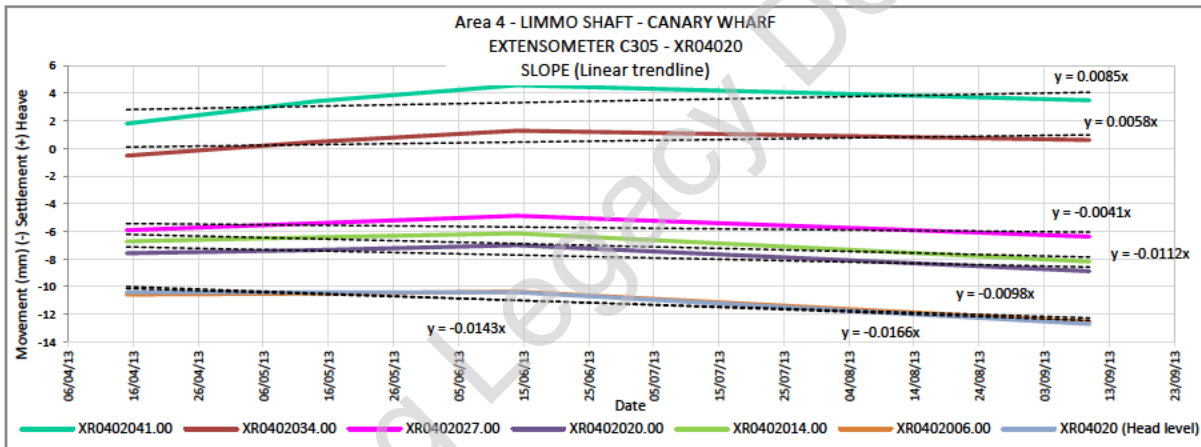
The table below shows the annual rate for each rod of the extensometer.

	Registered Movement (mm)				Rate (mm/year)
	15/04/2013	14/05/2013	14/06/2013	10/09/2013	
XR0402041.00	1.79	3.41	4.56	3.49	3.103
XR0402034.00	-0.53	0.46	1.29	0.61	2.117
XR0402027.00	-5.91	#N/A	-4.88	-6.37	-1.497
XR0402020.00	-7.59	-7.35	-7.00	-8.87	-3.577
XR0402014.00	-6.72	-6.43	-6.16	-8.18	-4.088
XR0402006.00	-10.57	-10.49	-10.35	-12.53	-5.220
XR04020 (Head level)	-10.40	-10.40	-10.40	-12.70	-6.059
	Rate less than -2.5 mm/year		% less 2 mm/ year		42.86%
	Rate greater than -3.5 mm/year		% less 3 mm/ year		42.86%

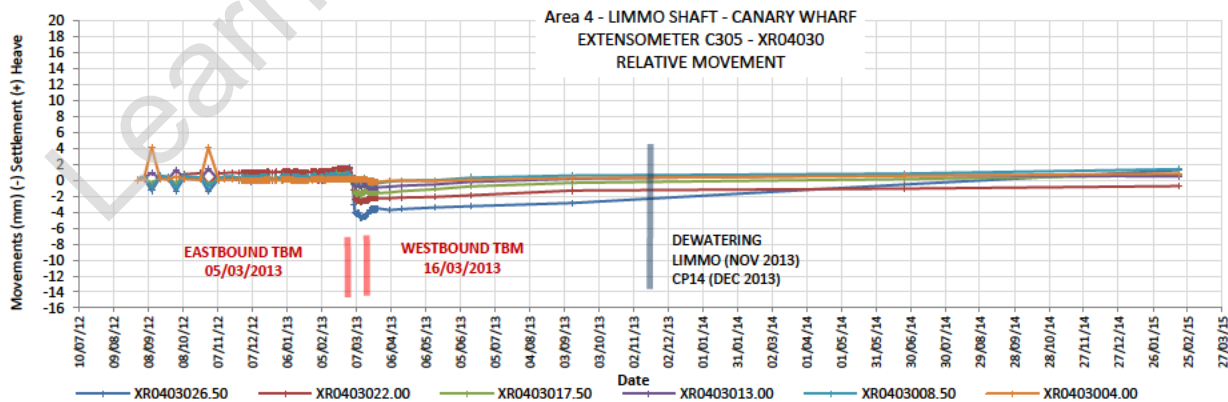
Note: All the movements are in mm. (-) Settlement / (+) Heave
 #N/A: No readings

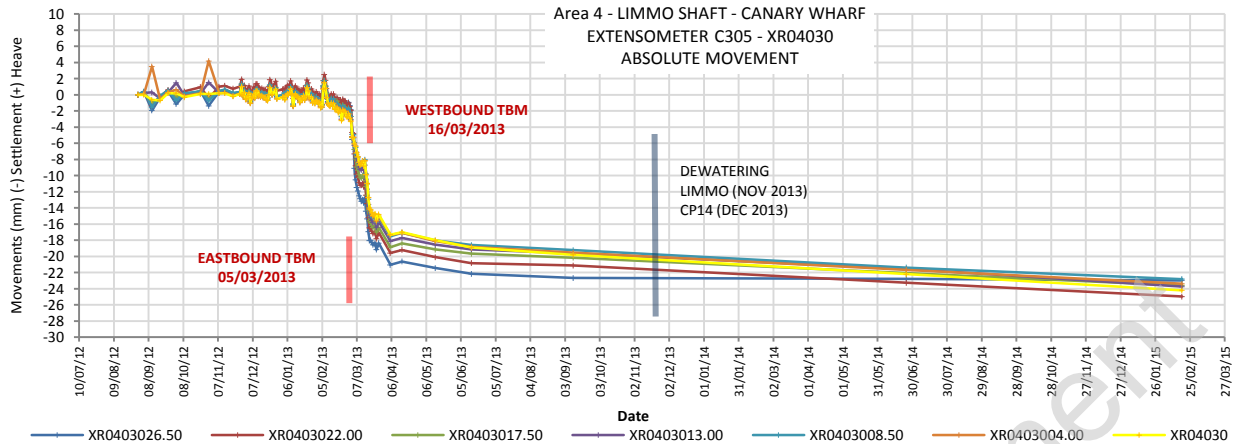
The percentage of the rods with a settlement rate less than 2 mm/year is 42.86% and the same percentage is less than 3 mm/year. See section 8 Summary of movements related to dewatering activities.

The next plot shows the Excel trend line adjustment for each rod.



C305-XR04030





As can be seen in the graph above the extensometer C305-XR04030 shows an absolute settlement of -13 mm during the eastbound TBM transit and an additional -7 mm settlement from the westbound TBM transit.

The effect of the dewatering in the Cross Passage 14 / Limmo can be observed in the graphic above. In order to differentiate the movement due to the TBM transit from the dewatering and analyse whether the rate of change in the data has reached an acceptably small rate, the four readings before the dewatering were used to calculate the annual projection.

The table below shows the annual rate for each rod of the extensometer.

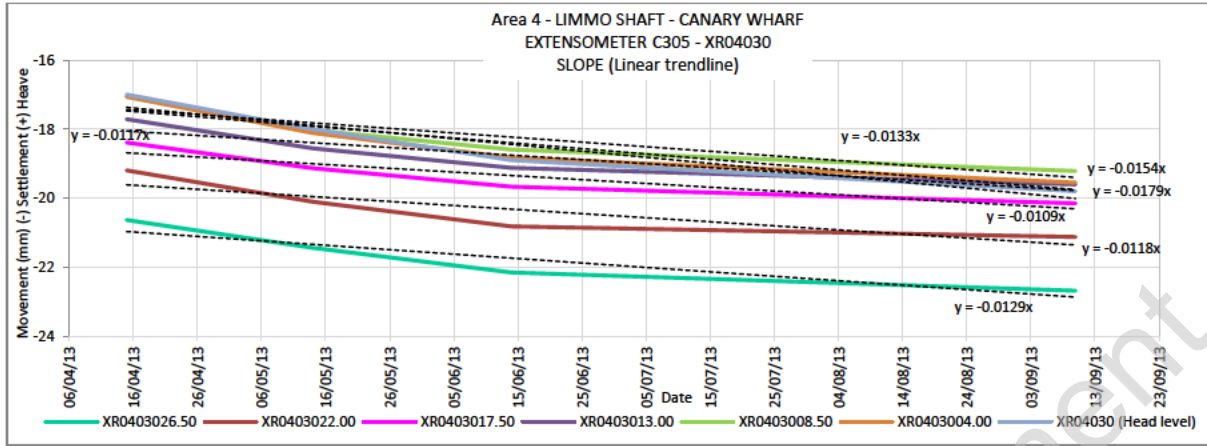
	Registered Movement (mm)				Rate (mm/year)
	15/04/2013	14/05/2013	14/06/2013	10/09/2013	
XR0403026.50	-20.63	-21.44	-22.15	-22.68	-4.709
XR0403022.00	-19.20	-20.10	-20.82	-21.12	-4.307
XR0403017.50	-18.39	-19.13	-19.67	-20.15	-3.979
XR0403013.00	-17.71	-18.56	-19.12	-19.60	-4.271
XR0403008.50	-17.06	-18.03	-18.59	-19.21	-4.855
XR0403004.00	-17.07	-18.11	-18.82	-19.54	-5.621
XR04030 (Head level)	-17.00	-18.00	-18.90	-19.80	-6.534
	Rate less than -2.5 mm/year		% less 2 mm/ year		0.00%
	Rate greater than -3.5 mm/year		% less 3 mm/ year		0.00%

Note: All the movements are in mm. (-) Settlement / (+) Heave

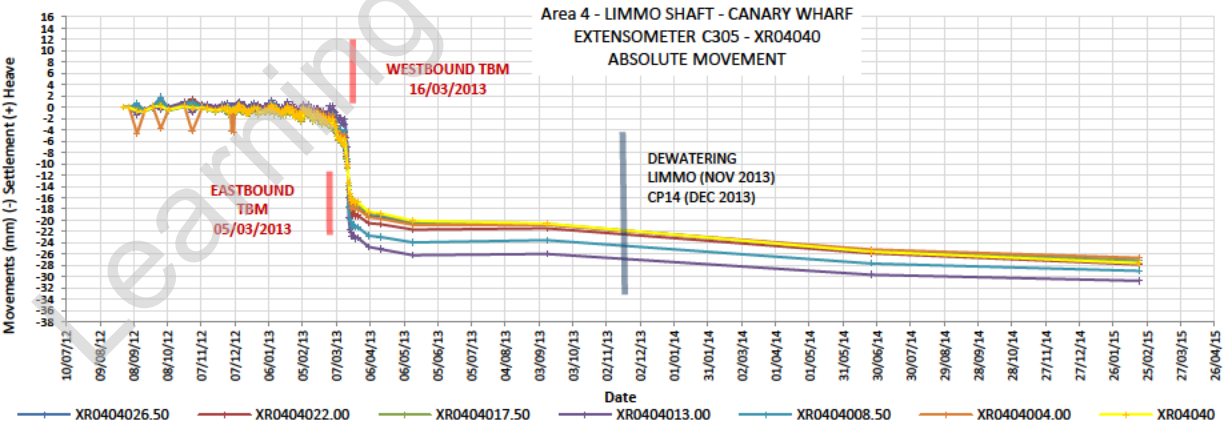
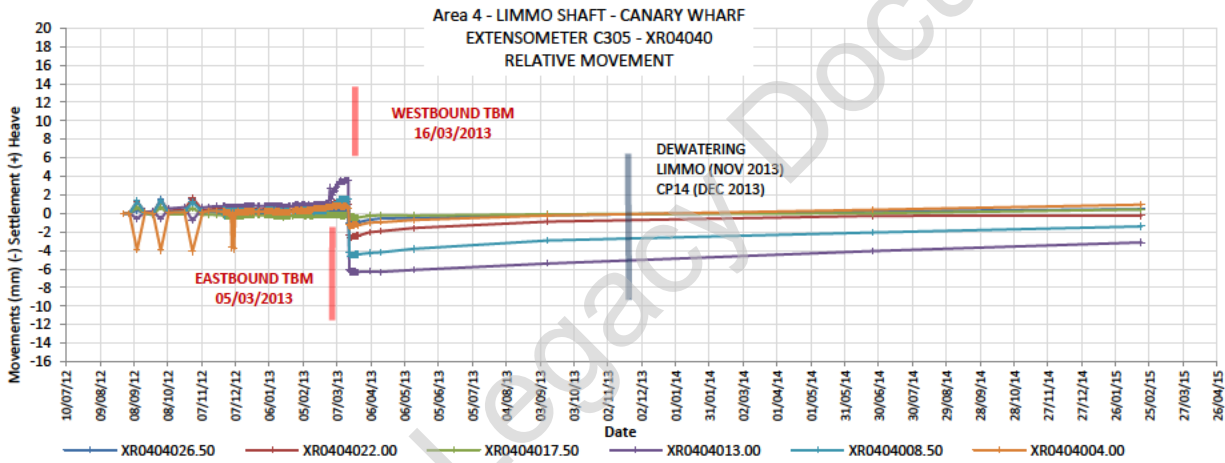
#N/A : No readings

The percentage of the rods with a settlement rate less than 2 mm/year is 0.00% and the same percentage is less than 3 mm/year. See section 8 Summary of movements related to dewatering activities.

The next plot shows the Excel trend line adjustment for each rod.



C305-XR04040



As can be seen in the graph above the extensometer C305-XR04040 shows an absolute settlement of -6 mm during the eastbound TBM transit and an additional -16 mm settlement from the westbound TBM transit.

The effect of the dewatering in the Cross Passage 14 / Limmo can be observed in the graphic above. In order to differentiate the movement due to the TBM transit from the dewatering and analyse whether the rate of change in the data has reached an acceptably small rate, the four readings before the dewatering were used to calculate the annual projection.

The table below shows the annual rate for each rod of the extensometer.

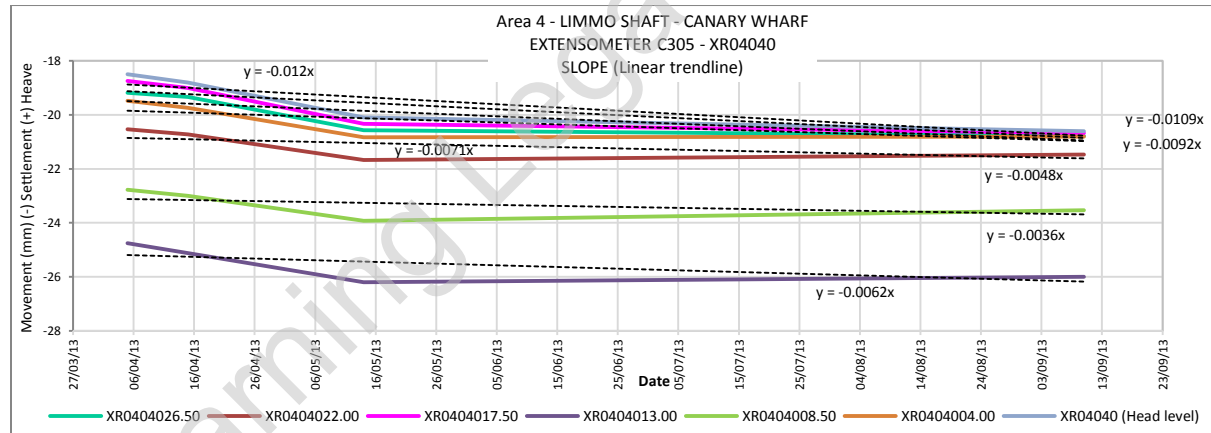
	Registered Movement (mm)				Rate (mm/year)
	05/04/2013	15/04/2013	14/05/2013	10/09/2013	
XR0404026.50	-19.18	-19.34	-20.57	-20.78	-3.358
XR0404022.00	-20.54	-20.73	-21.68	-21.47	-1.752
XR0404017.50	-18.75	-19.01	-20.34	-20.67	-3.979
XR0404013.00	-24.76	-25.12	-26.21	-26.00	-2.263
XR0404008.50	-22.78	-23.00	-23.92	-23.54	-1.314
XR0404004.00	-19.48	-19.75	-20.83	-20.81	-2.592
XR04040 (Head level)	-18.50	-18.80	-20.10	-20.60	-4.380
	Rate less than -2.5 mm/year		% less 2 mm/ year		42.86%
	Rate greater than -3.5 mm/year		% less 3 mm/ year		71.43%

Note: All the movements are in mm. (-) Settlement / (+) Heave

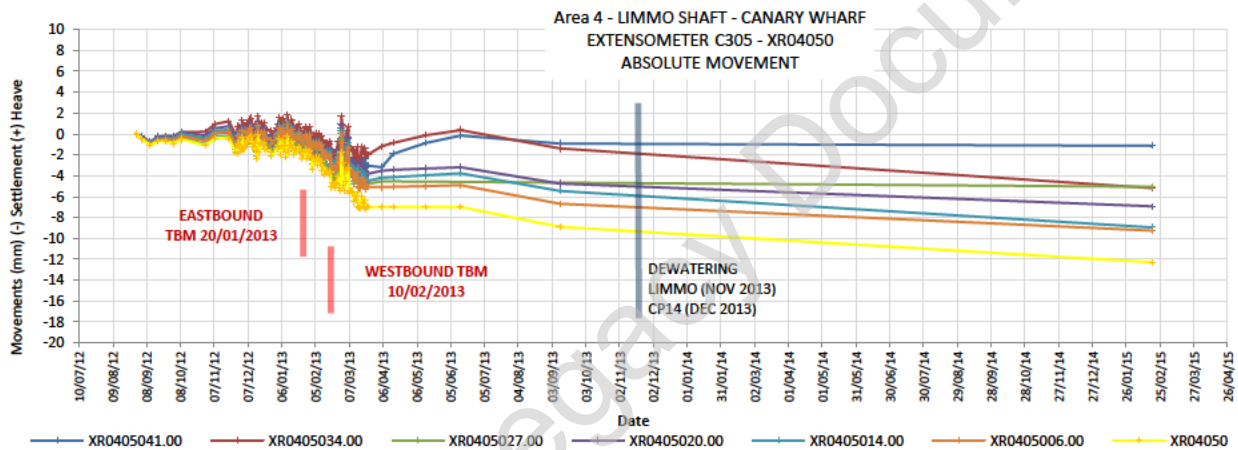
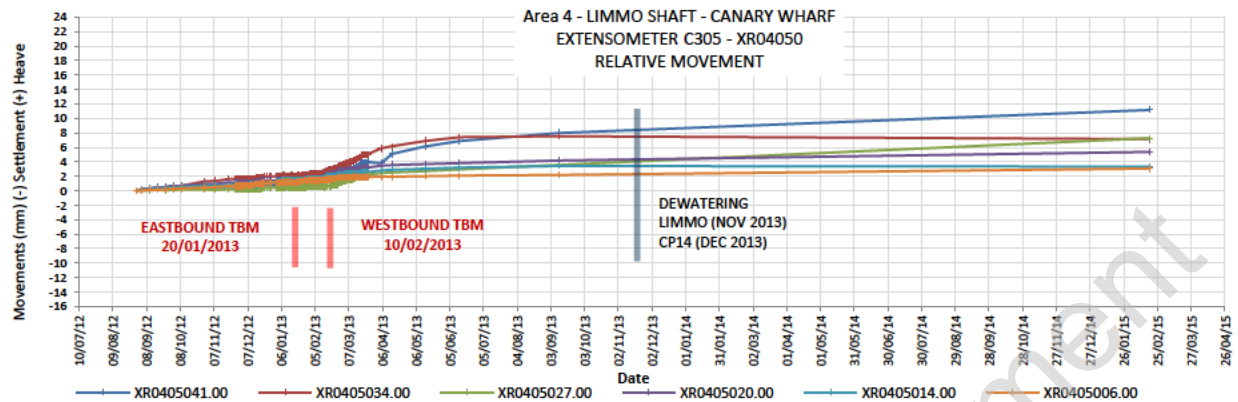
#N/A : No readings

The percentage of the rods with a settlement rate less than 2 mm/year is 42.86%, whereas a 71.43% is less than 3 mm/year. See section 8 Summary of movements related to dewatering activities.

The next plot shows the Excel trend line adjustment for each rod.



C305-XR04050



As can be seen in the graph above the extensometer C305-XR04050 shows an absolute settlement of -2 mm during the eastbound TBM transit and an additional -5 mm settlement from the westbound TBM transit.

The effect of the dewatering in the Cross Passage 14 / Limmo can be observed in the graphic above. In order to differentiate the movement due to the TBM transit from the dewatering and analyze whether the rate of change in the data has reached an acceptably small rate, the four readings before the dewatering were used to calculate the annual projection.

The table below shows the annual rate for each rod of the extensometer.

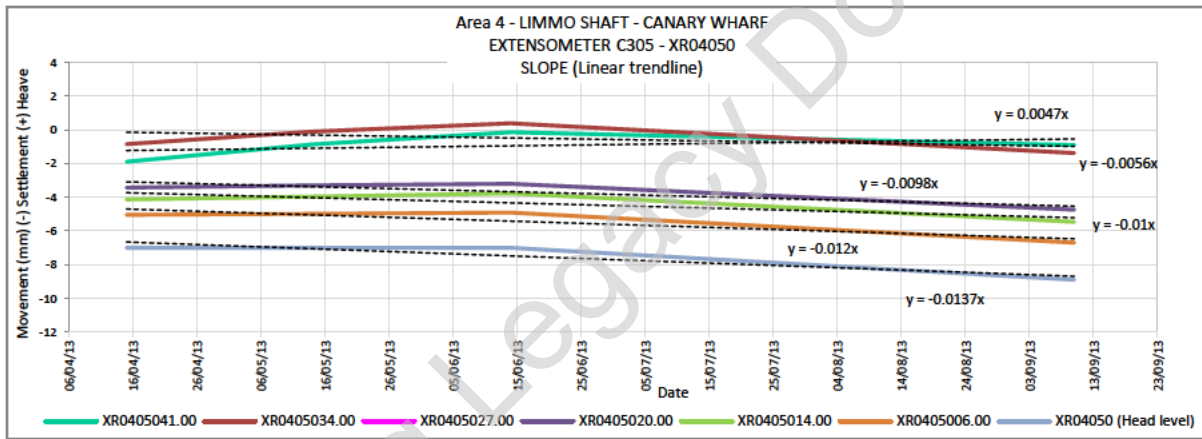
	Registered Movement (mm)				Rate (mm/year)
	15/04/2013	14/05/2013	14/06/2013	10/09/2013	
XR0405041.00	-1.90	-0.87	-0.15	-0.91	1.716
XR0405034.00	-0.85	-0.11	0.38	-1.38	-2.044
XR0405027.00	#N/A	#N/A	#N/A	#N/A	-
XR0405020.00	-3.43	-3.30	-3.20	-4.75	-3.577
XR0405014.00	-4.13	-3.96	-3.78	-5.46	-3.650
XR0405006.00	-5.05	-5.00	-4.91	-6.70	-4.380
XR04050 (Head level)	-7.00	-7.00	-7.00	-8.90	-5.001
	Rate less than -2.5 mm/year		% less 2 mm/ year		33.33%
	Rate greater than -3.5 mm/year		% less 3 mm/ year		33.33%

Note: All the movements are in mm. (-) Settlement / (+) Heave

#N/A : No readings

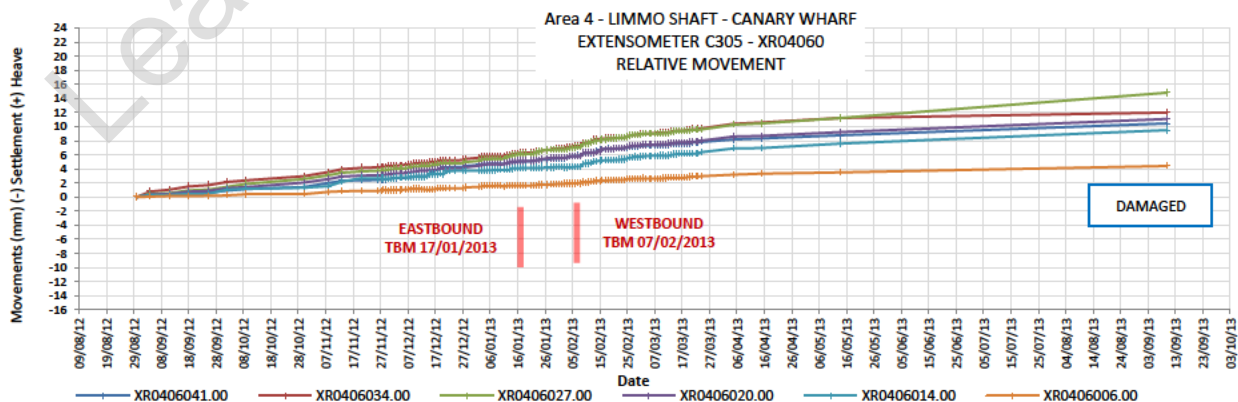
The percentage of the rods with a settlement rate less than 2 mm/year is 33.33% and the same percentage is less than 3 mm/year. See section 8 Summary of movements related to dewatering activities.

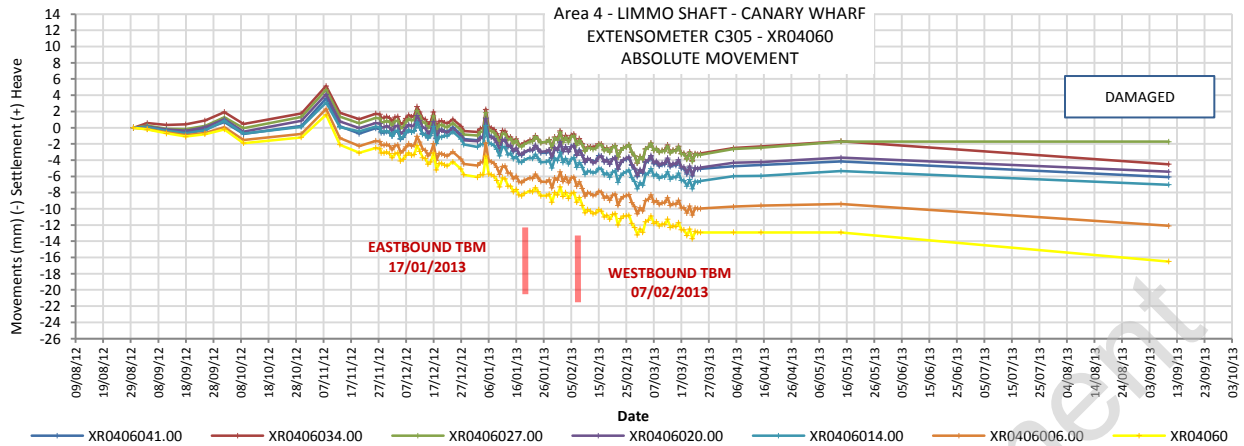
The next plot shows the Excel trend line adjustment for each rod.



C305-XR04060

Readings of the rod extensometer stopped in September 2013 due to the instrument being damaged by major building works and heavy plant movement.



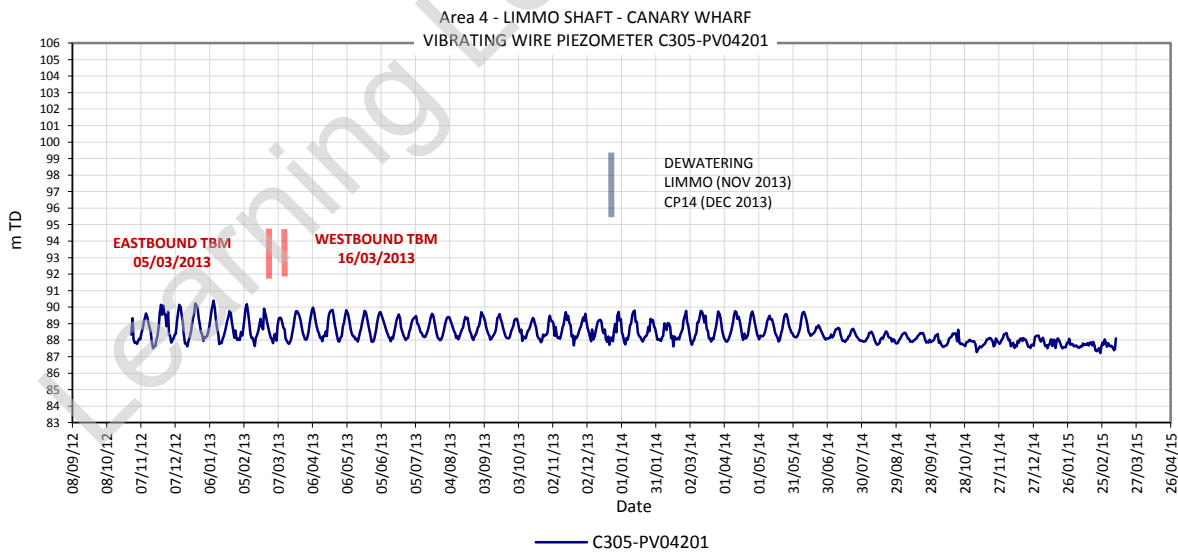


As can be seen in the graph above the extensometer C305-XR04060 shows an absolute settlement of - 12 mm from November 2012 to March 2013.

VIBRATING WIRE PIEZOMETERS

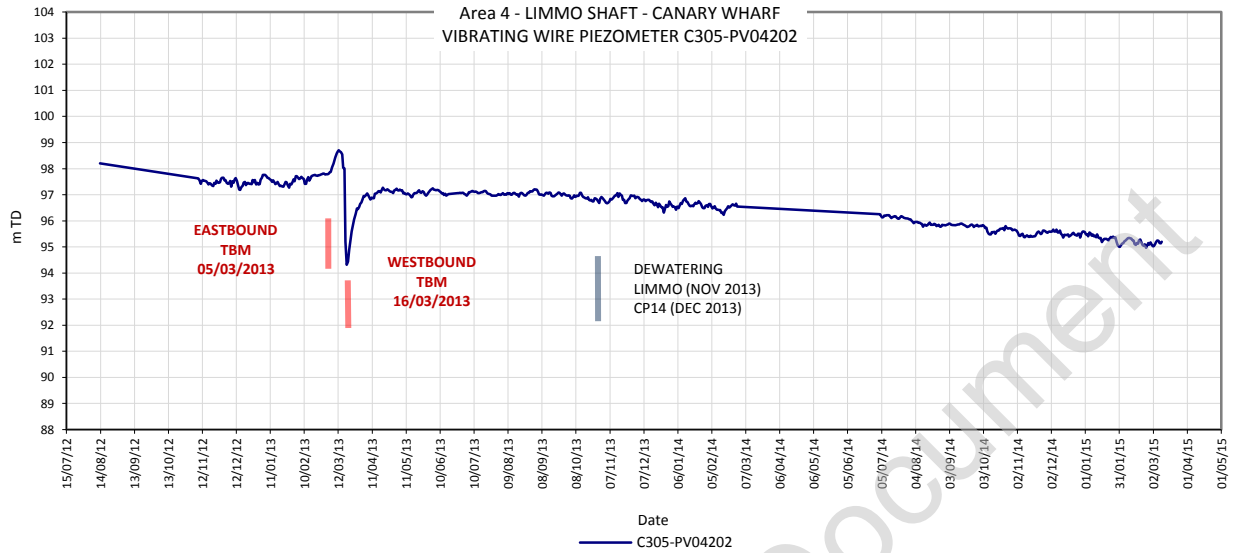
- Instrument Type: Vibrating wire piezometer
- Quantity: 6

C305-PV04201



The piezometer C305-PV04201 has no effect due to the TBMs transit or dewatering works.

C305-PV04202

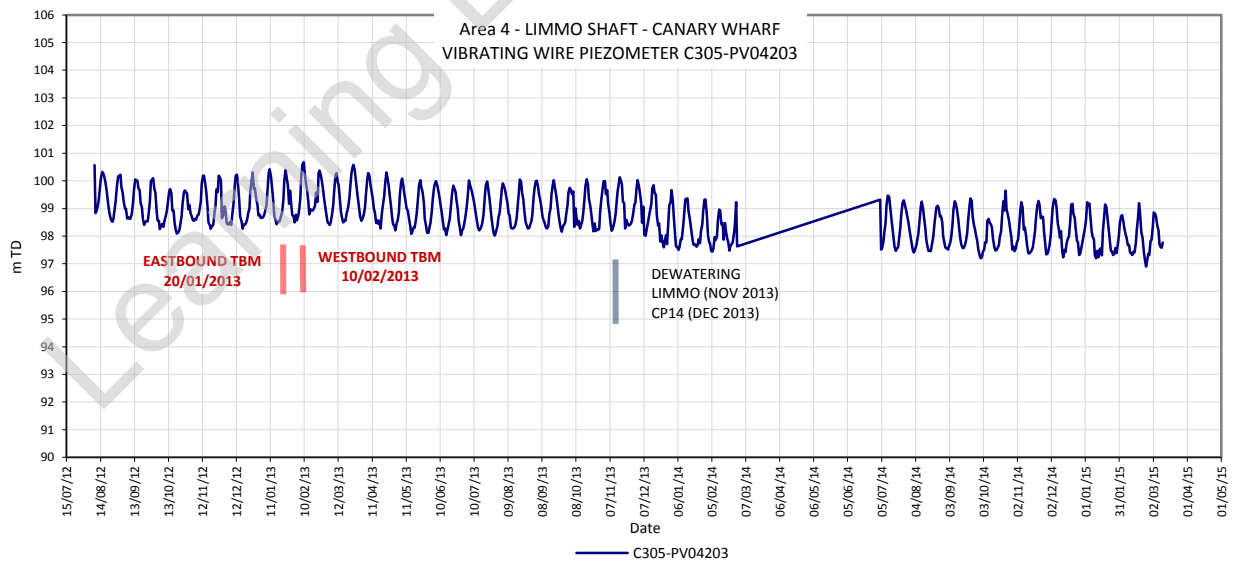


As can be seen in the graph above there is a rise of +1m in the water level before the westbound TBM transit followed by a drop of -4m during the transit and a recuperation of +2.5m after it.

From November 2013 when the dewatering works started there is a drop of -2m until March 2015.

See section 8 Summary of movements related to dewatering activities.

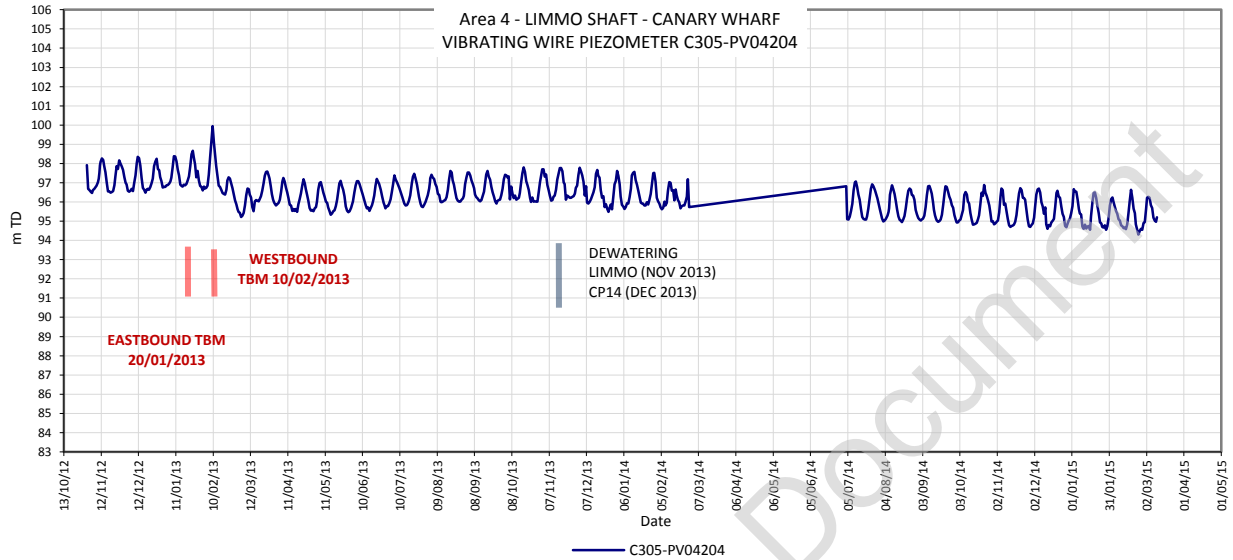
C305-PV04203



As can be seen in the graph above there is no effect due to TBMs transit and a drop in the water level of -1 m from November 2013.

See section 8 Summary of movements related to dewatering activities.

C305-PV04204



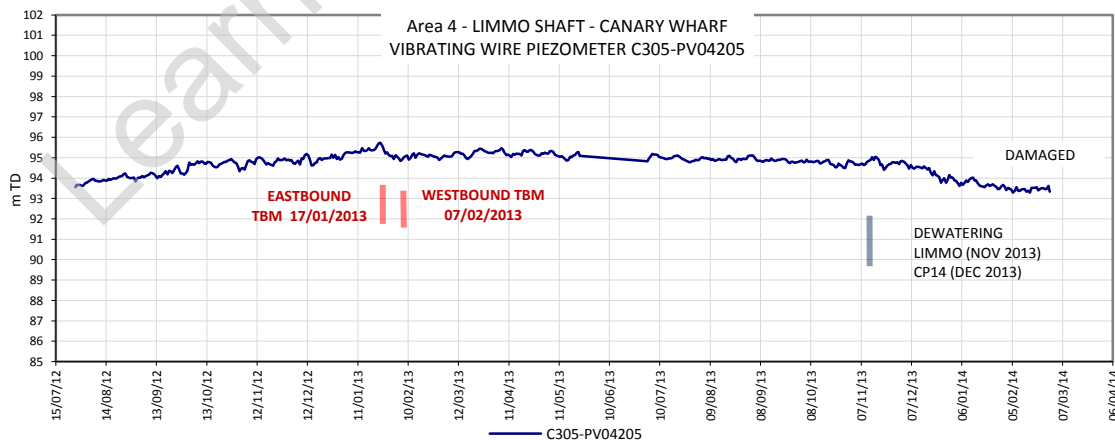
As can be seen in the graph above there is a rise of +3m in the water level before the westbound TBM transit followed by a drop of -5m after it.

From November 2013 when the dewatering works started there is a drop of -1m until March 2015.

See section 8 Summary of movements related to dewatering activities.

C305-PV04205

Readings of the vibrating wire piezometer stopped in March 2013 due to the instrument being damaged by major building works and heavy plant movement.



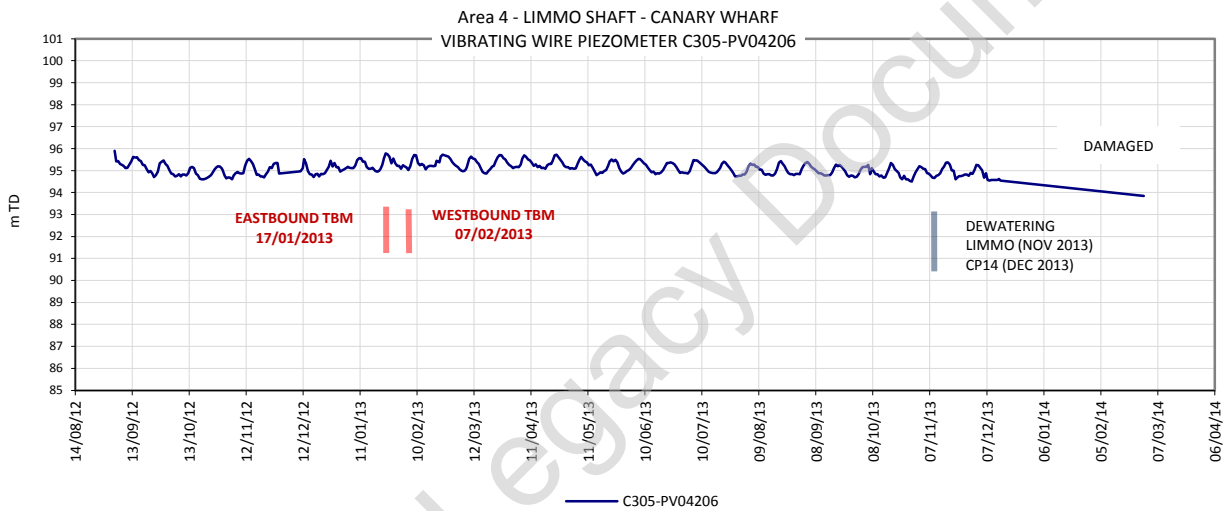
As can be seen in the graph above there is a rise of +0.5m in the water level followed by a drop of -1m during the eastbound TBM transit.

From November 2013 until the piezometer was damaged there is a drop of -1.5m due to dewatering works.

See section 8 Summary of movements related to dewatering activities.

C305-PV04206

The vibrating wire piezometer C305-PV04206 was damaged due to major building works and heavy plant movement.



As can be seen in the graph above no effect is perceptible due to TBMs transit.

INCLINOMETERS

- Instrument Type: Inclinometers
- Quantity: 4

Four Inclinometers have been installed. A drawing in both instruments includes orientation of “A” and “B” axis and the distance of the instrument from the nearest tunnel drive.

Movements in A+ direction are always to the expected direction, to the axis tunnel, whereas B+ direction is 90° in clockwise direction.

Orientation of the probe and casing:

A axis: the direction of the anticipated movement

A+ = the orientation of the casing groove into which the leading wheel of the inclinometer probe is located on the first run of a set of readings. This is also the orientation of the primary sensor.

A- = the orientation of the casing groove into which the leading wheel of the inclinometer probe is located on the second run of a set of readings. This is also the orientation of the primary sensor.

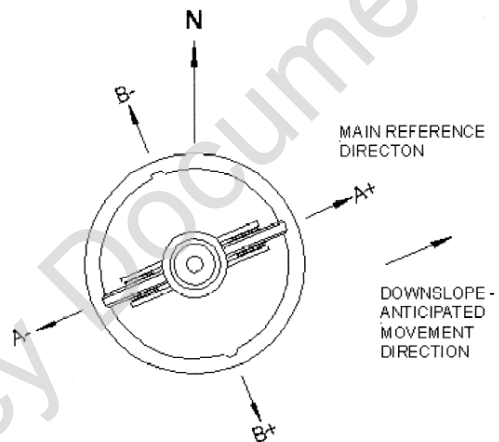
B+ = the orientation of the secondary sensor during the first run of a set of readings.

B- = the orientation of the secondary sensor during the second run of a set of readings.

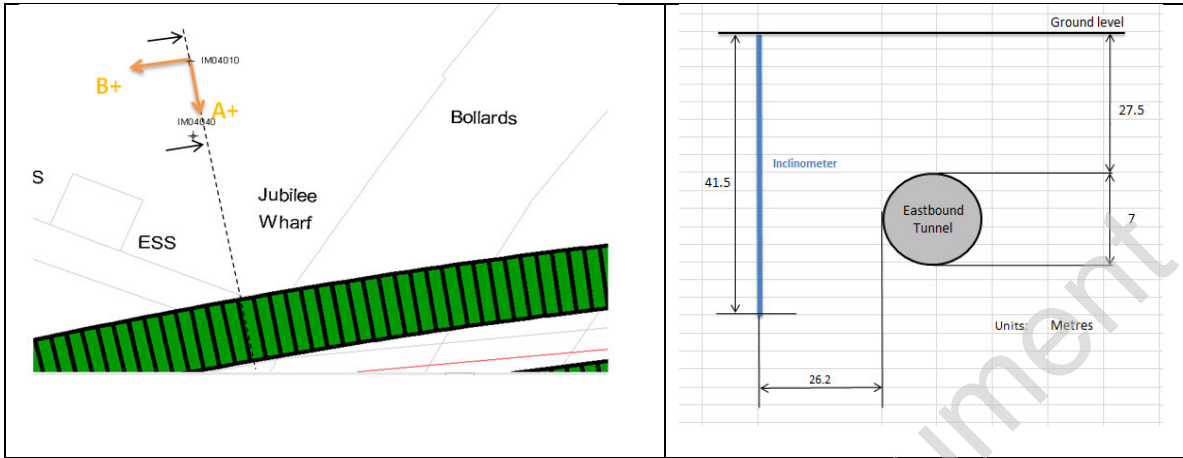
The first reading of the baseline is an average of the three commissioning readings taken prior baseline readings.

Corrections, due to the change of the different probes along the time when the readings were taken, have been applied when using different probes on the raw data. This correction is calculated as the following way. An average of the raw readings along the inclinometer is obtained in each case. Then the difference between the average values before and after the change of the probes is calculated. This difference is applied to the readings taken with the different probe in each direction.

Note: In a meeting between the PM, the Contractor & the Designer, dated 17 March 2016, it was agreed that DSJV will provide a report on inclinometers (*“INCLINOMETERS C-305 RAW DATA AND TWISTING SPIRAL VERIFICATION: C305-DSJ-C2-RGN-CRG03-50373”*), which will include all raw data on excel sheet with dates of different probes used etc.



C305-IM04010



The dates when the TBMs were immediately adjacent to the inclinometer are as follows:

Eastbound Drive-Y	Ring 72 (Project chainage – 84749)	16/01/2013
Westbound Drive-Y	Ring 76 (Project chainage – 84741)	08/02/2013

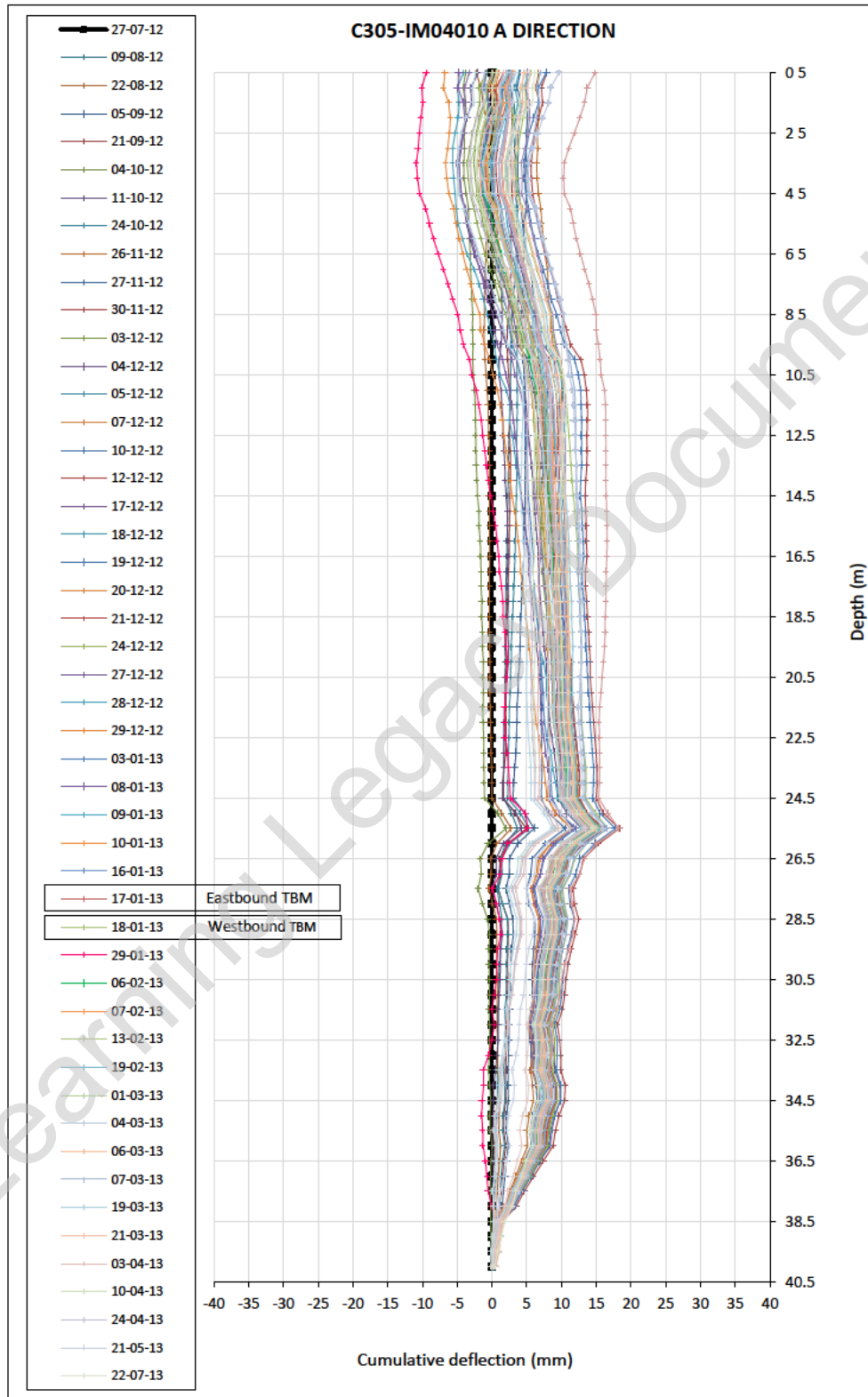
No correction has been applied to the axis probe readings for zero shifts. It plays no part in the deflection or profile calculation and has no effect on the accuracy of the probe. No corrections have been applied for systematic errors.

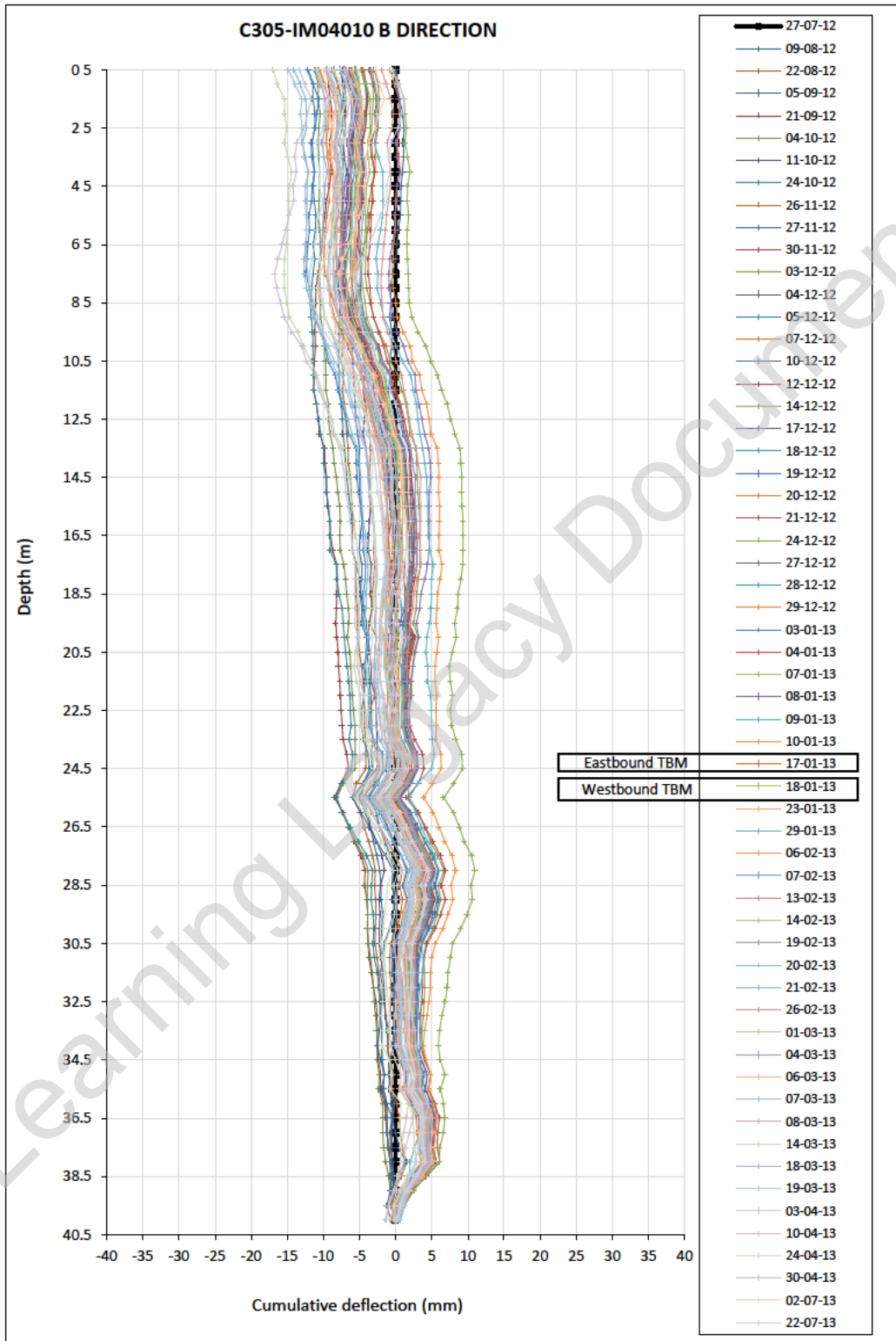
For the inclinometer C305-IM04010 different probes have been used. Related correction factors are presented in the table below:

ID Sensor	C305-IM04010	
Serial number	1032604 to 1035333	1035333 to D11244
Date	30/11/2012	03/04/2013
A+	-182	38
A-	-174	38
B+	158	28
B-	155	26

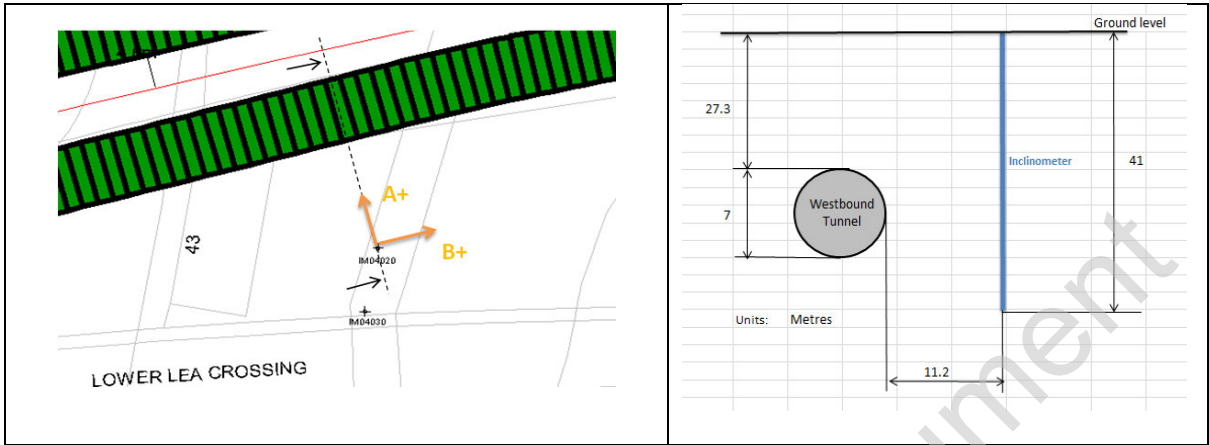
An evaluation of the data “checksum” has been carried out in order to find errors or erroneous readings. The two values obtained in diametrically opposite directions and at the same depth have been added and checked that these values vary by about +/- 20 digits around the average value. This interval can be larger for the axis B due to the required wheel tolerance in the track. This procedure has been carried out during the course of the survey.

There is no effect due to the TBMs transit in the readings of the inclinometer C305-IM04010.





C305-IM04020



The dates when the TBMs were immediately adjacent to the inclinometer are as follows:

Eastbound Drive-Y	Ring 91 (Project chainage – 84718)	01/03/2013
Westbound Drive-Y	Ring 90 (Project chainage – 84717)	13/03/2013

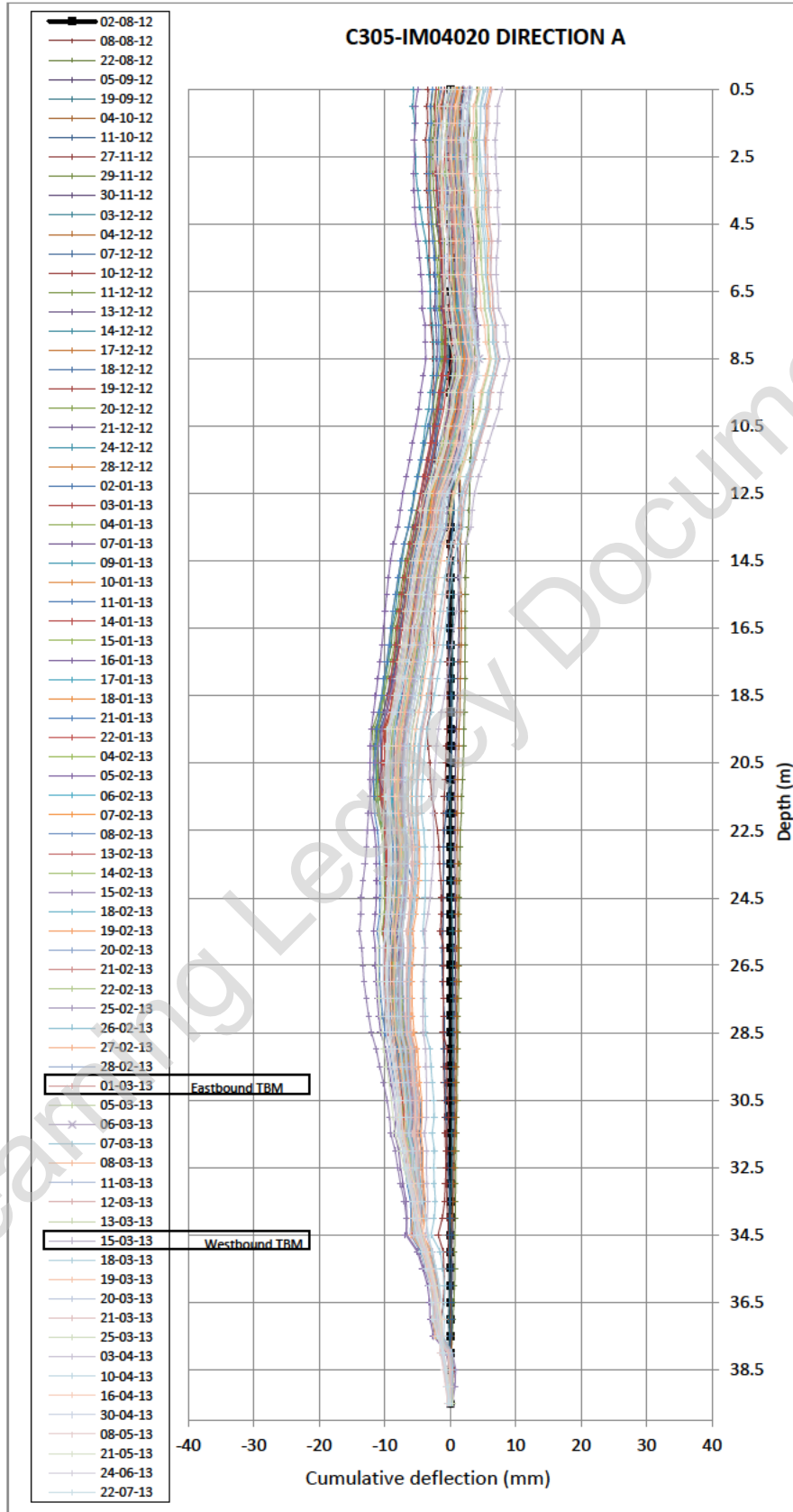
No correction has been applied to the axis probe readings for zero shifts. It plays no part in the deflection or profile calculation and has no effect on the accuracy of the probe. No corrections have been applied for systematic errors.

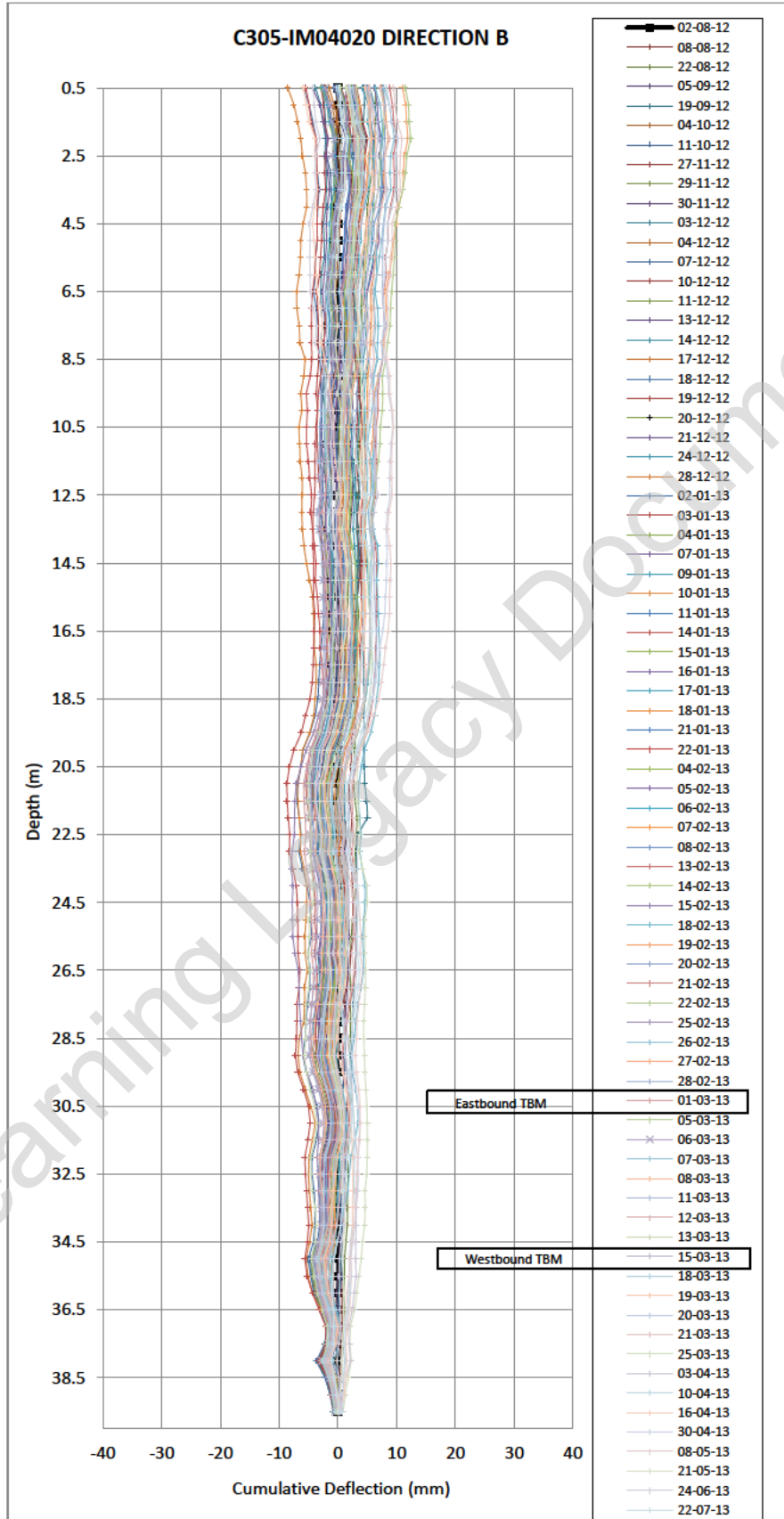
For the inclinometer C305-IM04020 different probes have been used. Related correction factors are presented in the table below:

ID Sensor	C305-IM04020	
Serial number	1032604 to 1035333	1035333 to DI1244
Date	29/11/2012	25/03/2013
A+	-181	43
A-	-174	38
B+	156	17
B-	156	23

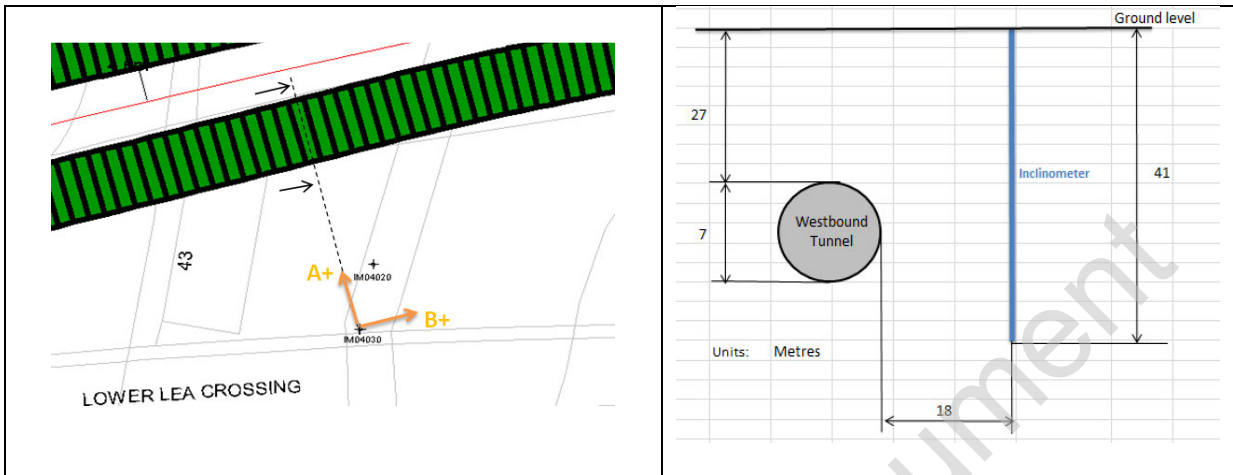
An evaluation of the data “checksum” has been carried out in order to find errors or erroneous readings. The two values obtained in diametrically opposite directions and at the same depth have been added and checked that these values vary by about +/- 20 digits around the average value. This interval can be larger for the axis B due to the required wheel tolerance in the track. This procedure has been carried out during the course of the survey.

There is no effect due to the TBMs transit in the readings of the inclinometer C305-IM04020.





C305-IM04030



The dates when the TBMs were immediately adjacent to the inclinometer are as follows:

Eastbound Drive-Y	Ring 91 (Project chainage – 84718)	01/03/2013
Westbound Drive-Y	Ring 91 (Project chainage – 84717)	14/03/2013

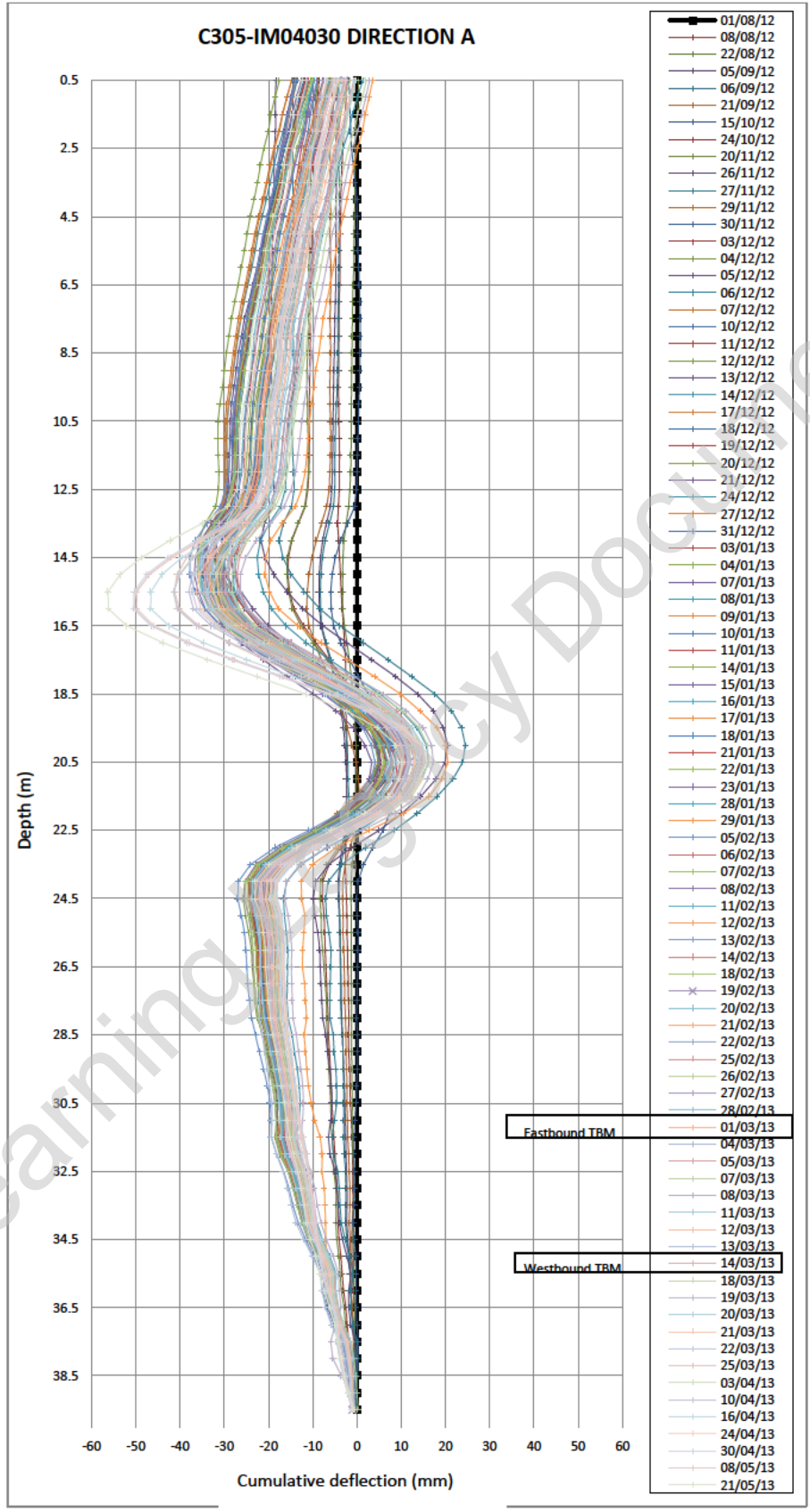
No correction has been applied to the axis probe readings for zero shifts. It plays no part in the deflection or profile calculation and has no effect on the accuracy of the probe. No corrections have been applied for systematic errors.

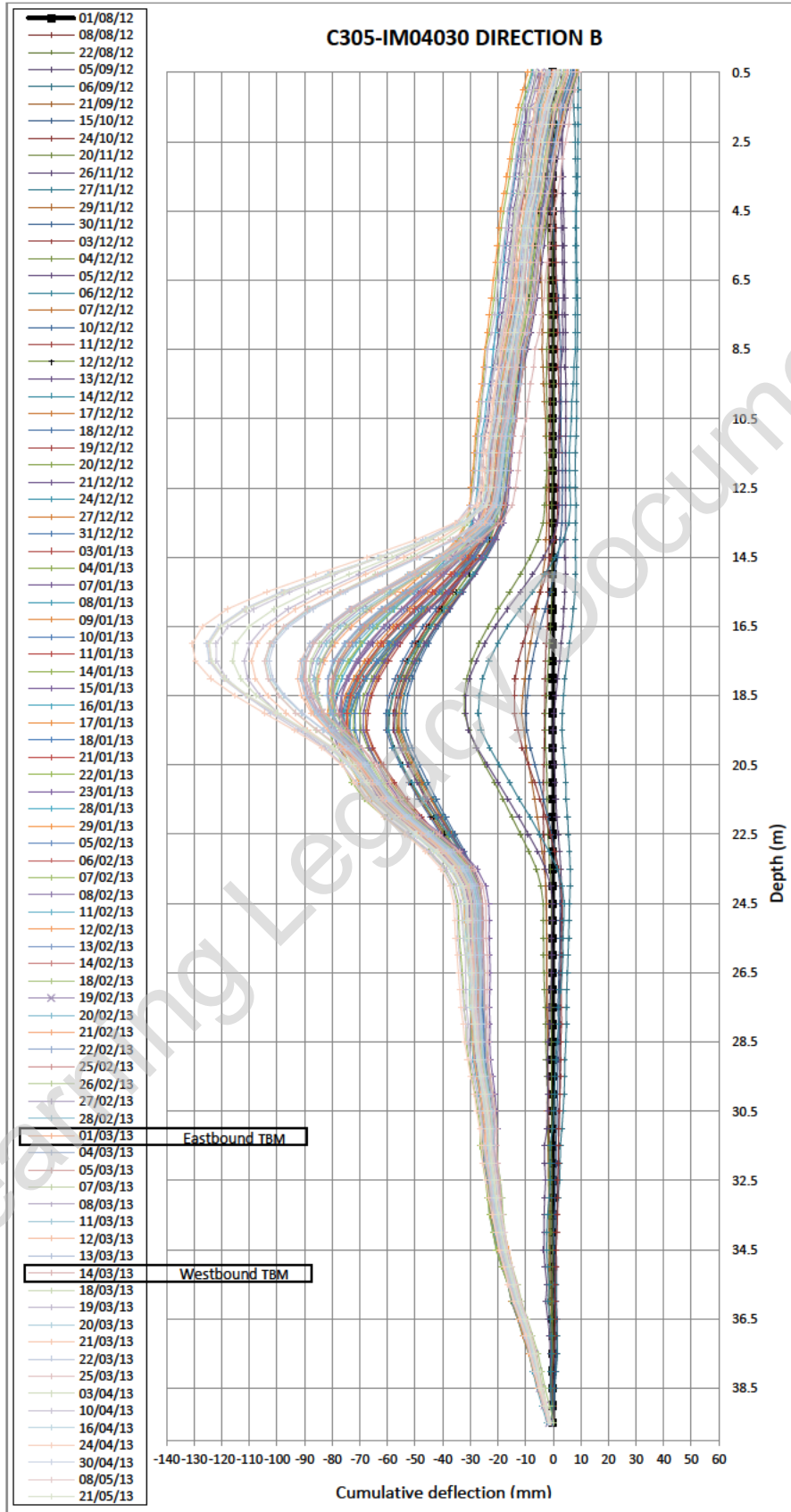
For the inclinometer C305-IM04030 different probes have been used. Related correction factors are presented in the table below:

ID Sensor	C305-IM04030	
	Serial number	1032604 to 1035333
Date	29/11/2012	25/03/2013
A+	-179	41
A-	-170	36
B+	168	17
B-	163	20

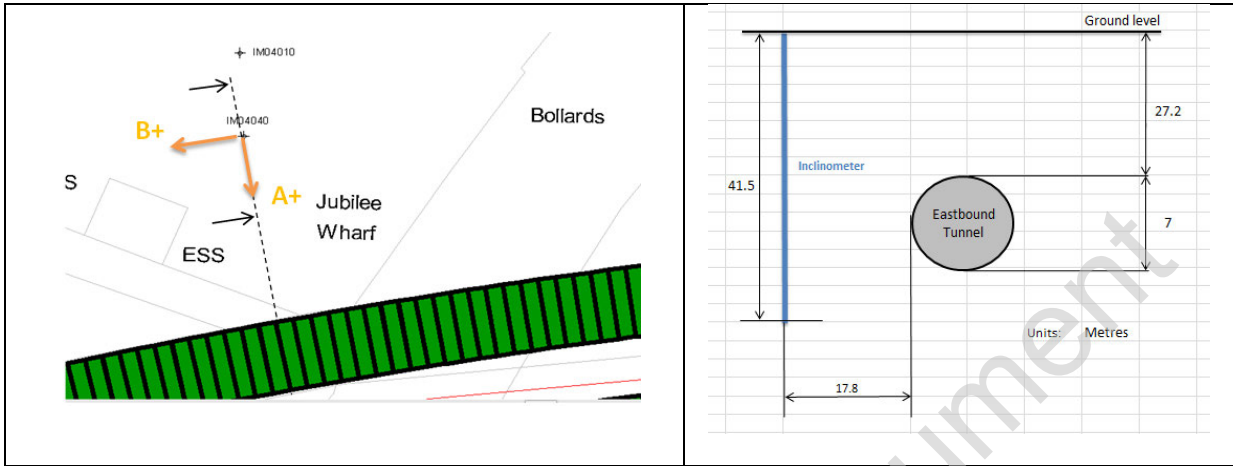
An evaluation of the data “checksum” has been carried out in order to find errors or erroneous readings. The two values obtained in diametrically opposite directions and at the same depth have been added and checked that these values vary by about +/- 20 digits around the average value. This interval can be larger for the axis B due to the required wheel tolerance in the track. This procedure has been carried out during the course of the survey.

No effects due to the TBMs transit in the readings of the inclinometer C305-IM04030. From depth 14.5 m to 24.5 m the inclinometer readings suffer a distortion due to a wrong installation of the casing.





C305-IM04040



The dates when the TBMs were immediately adjacent to the inclinometer are as follows:

Eastbound Drive-Y	Ring 71 (Project chainage – 84750)	15/01/2013
Westbound Drive-Y	Ring 79 (Project chainage – 84736)	08/02/2013

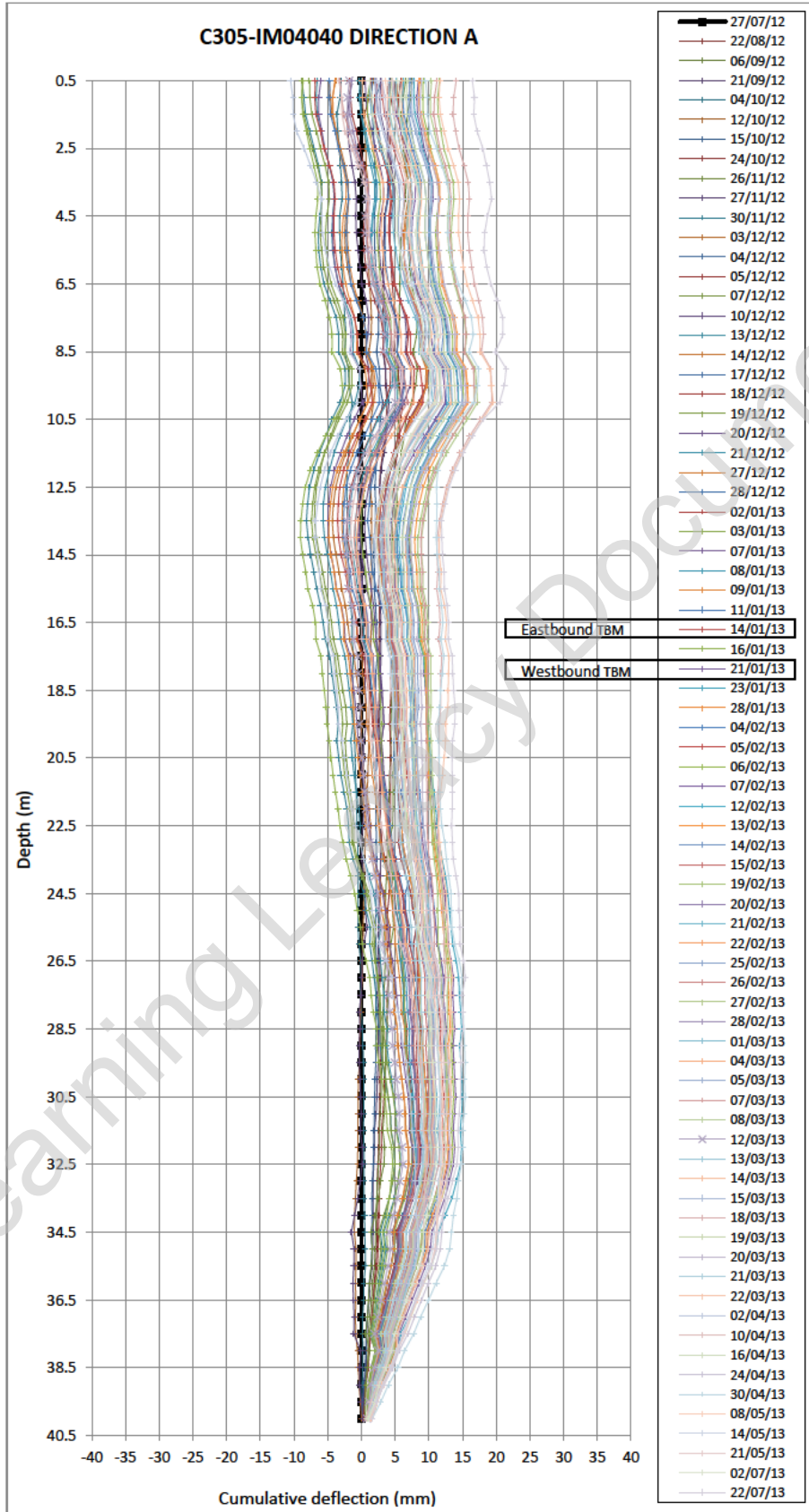
No correction has been applied to the axis probe readings for zero shifts. It plays no part in the deflection or profile calculation and has no effect on the accuracy of the probe. No corrections have been applied for systematic errors.

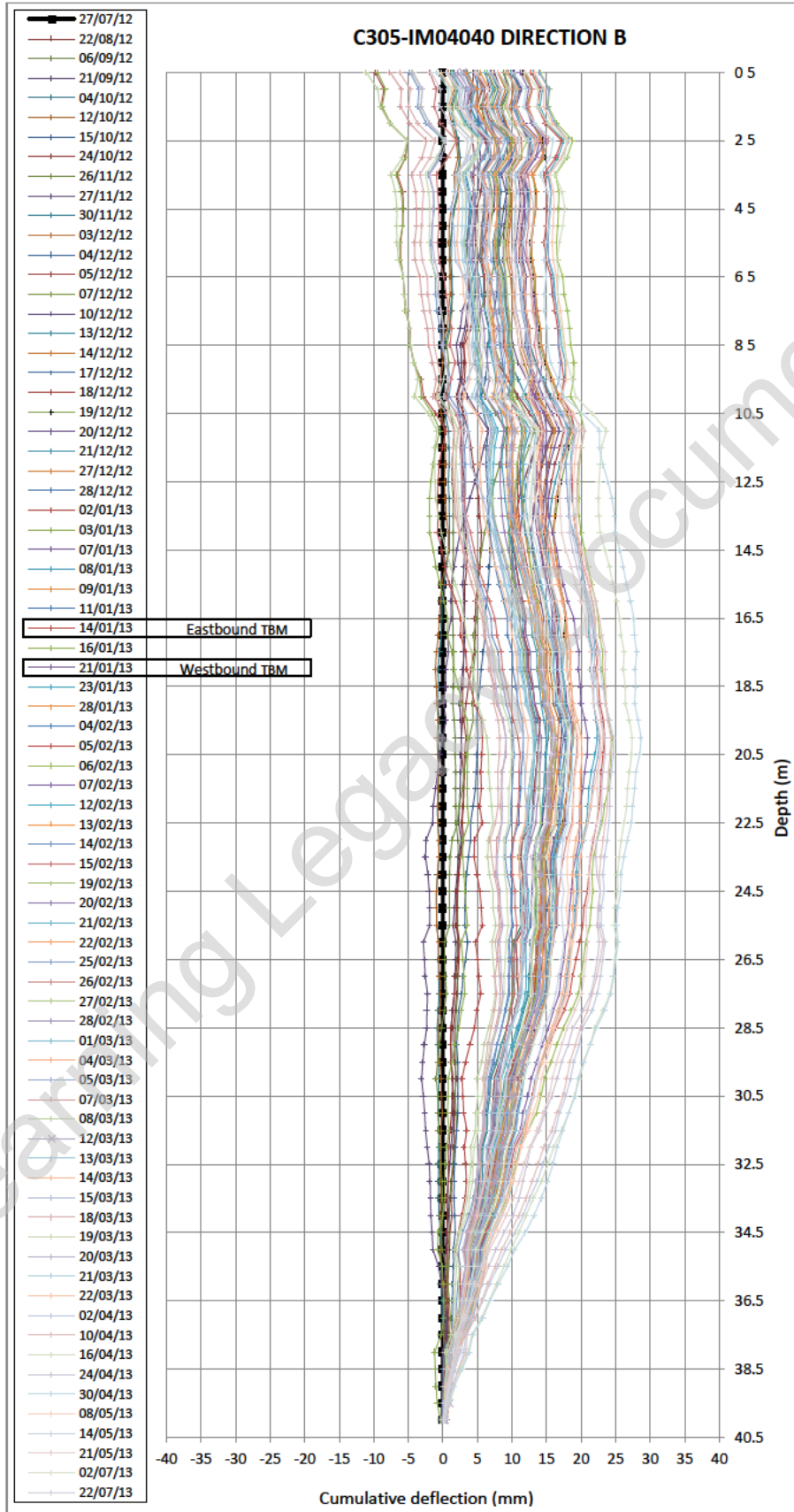
For the inclinometer C305-IM04040 different probes have been used. Related correction factors are presented in the table below:

ID Sensor	C305-IM04040	
	Serial number	1032604 to 1035333
Date	30/11/2012	02/04/2012
A+	-179	38
A-	-166	33
B+	165	21
B-	156	20

An evaluation of the data “checksum” has been carried out in order to find errors or erroneous readings. The two values obtained in diametrically opposite directions and at the same depth have been added and checked that these values vary by about +/- 20 digits around the average value. This interval can be larger for the axis B due to the required wheel tolerance in the track. This procedure has been carried out during the course of the survey.

There is no effect due to the TBMs transit in the readings of the inclinometer C305-IM04040.





8. SUMMARY OF MOVEMENTS RELATED TO DEWATERING ACTIVITIES

The effect of dewatering systems being switched on is clearly illustrated in the graphs presented in section 7 above.

Where possible, the monitoring data sets used to calculate the settlement projections in this report were selected up to this stage of works (ie: they do not include the periods affected by dewatering activities). In some instances the period from which the data sets were used to calculate the settlement projections was two months. This limited monitoring period has resulted in slightly higher settlement ratios. Furthermore, for some areas it is evident that dewatering systems were switched on before ground movements could be demonstrated to have stabilised for post TBM works.

Monitoring data graphs from transects installed to monitor the dewatering activities have been included in this report. These graphs present over a year collection of data. The description and location of these transects, relative to this report's instruments are shown in the list and figure below:

- The transect Lower Lea Crossing South Array C305-LP045501 to C305-LP045553 is not covered by this close out report. It is detailed in the Cross Passage 14 and will be included in a separate Close Out Report (I&M Close out report for Cross Passages: Phase I - C305-DSJ-C2-RGN-CRG03-50374).

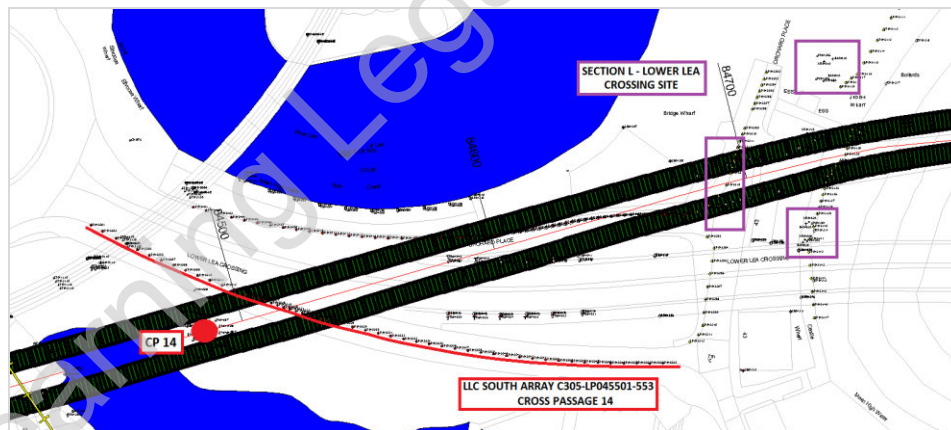
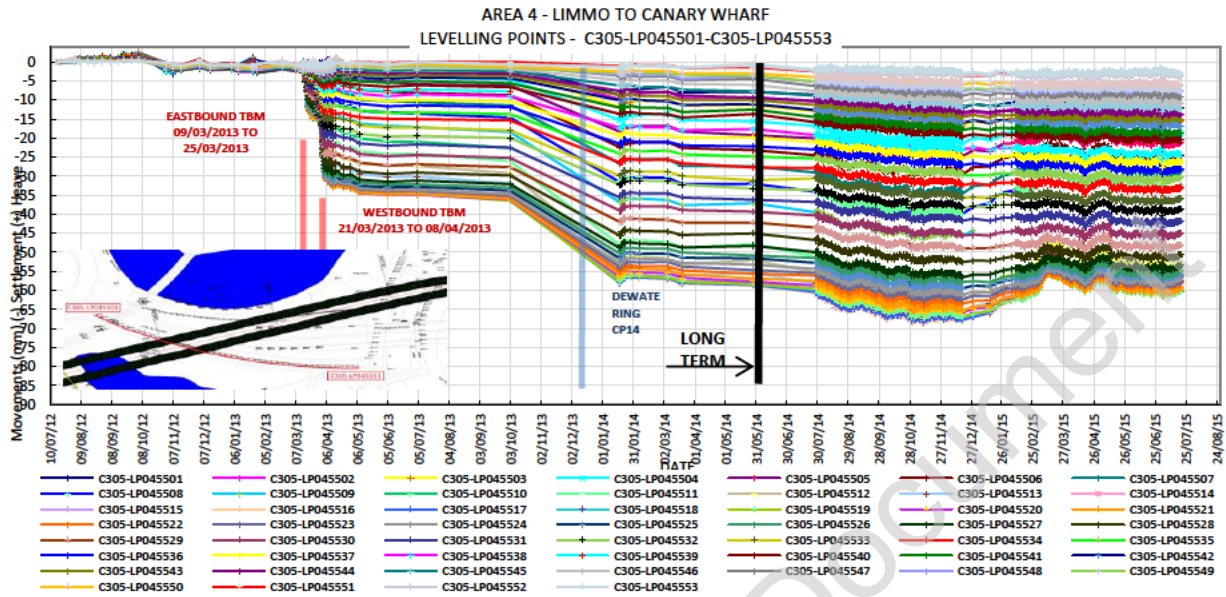
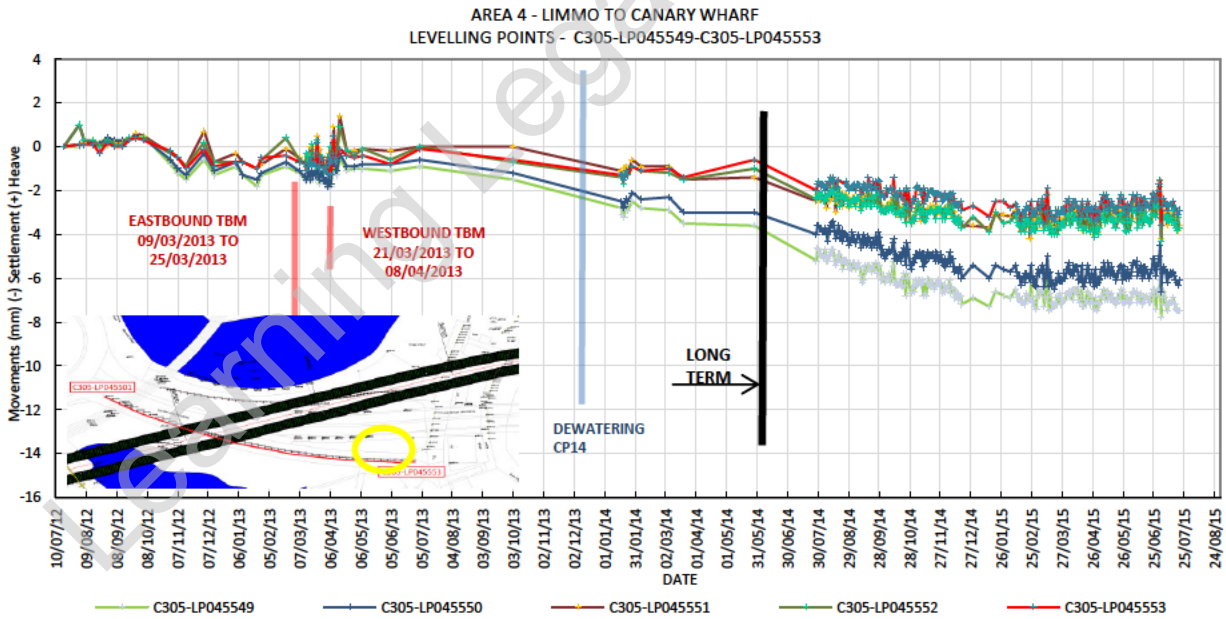


Figure 1: Section L – Lower Lea Crossing site and Cross Passages sections

Lower Lea Crossing South Array C305-LP045501 to C305-LP045553

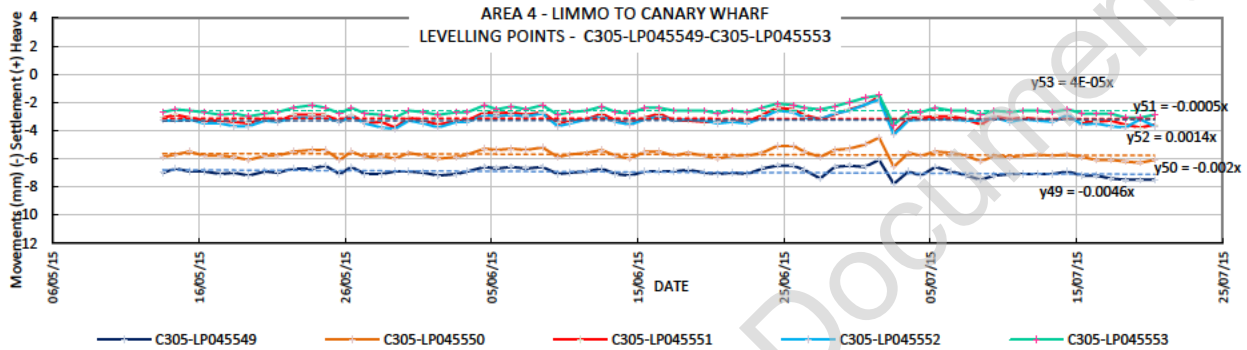


The graph below shows the data of five levelling points (C305-LP045549-C305-LP045553) of the Lower Lea Crossing South Array C305-LP045501 to C305-LP045553. These five levelling points close to the Section L covered in this report, reach an annual rate less than 2mm/year.



The table below shows the annual rate calculated for each of the five levelling points and the graph the trend line adjustment.

	Registered movement (mm)		Rate (mm/year)
C305-LP045549	Data from 13.05.2015 to 20.07.2015		0.015
C305-LP045550			-0.183
C305-LP045551			0.511
C305-LP045552			-0.730
C305-LP045553			-1.679
	Rate less than -2.5 mm/year	% less 2 mm/ year	100.00%
	Rate greater than -3.5 mm/year	% less 3 mm/ year	100.00%



The graphs and tables of settlement rate for both transects show that settlement rate due to dewatering works is less than 2 mm/year. As the instruments in this report are located close to this transect it is concluded that they will behave in a similar manner and hence their settlement rate will be less than the 2 mm/year rate.

9. SUMMARY STATEMENT

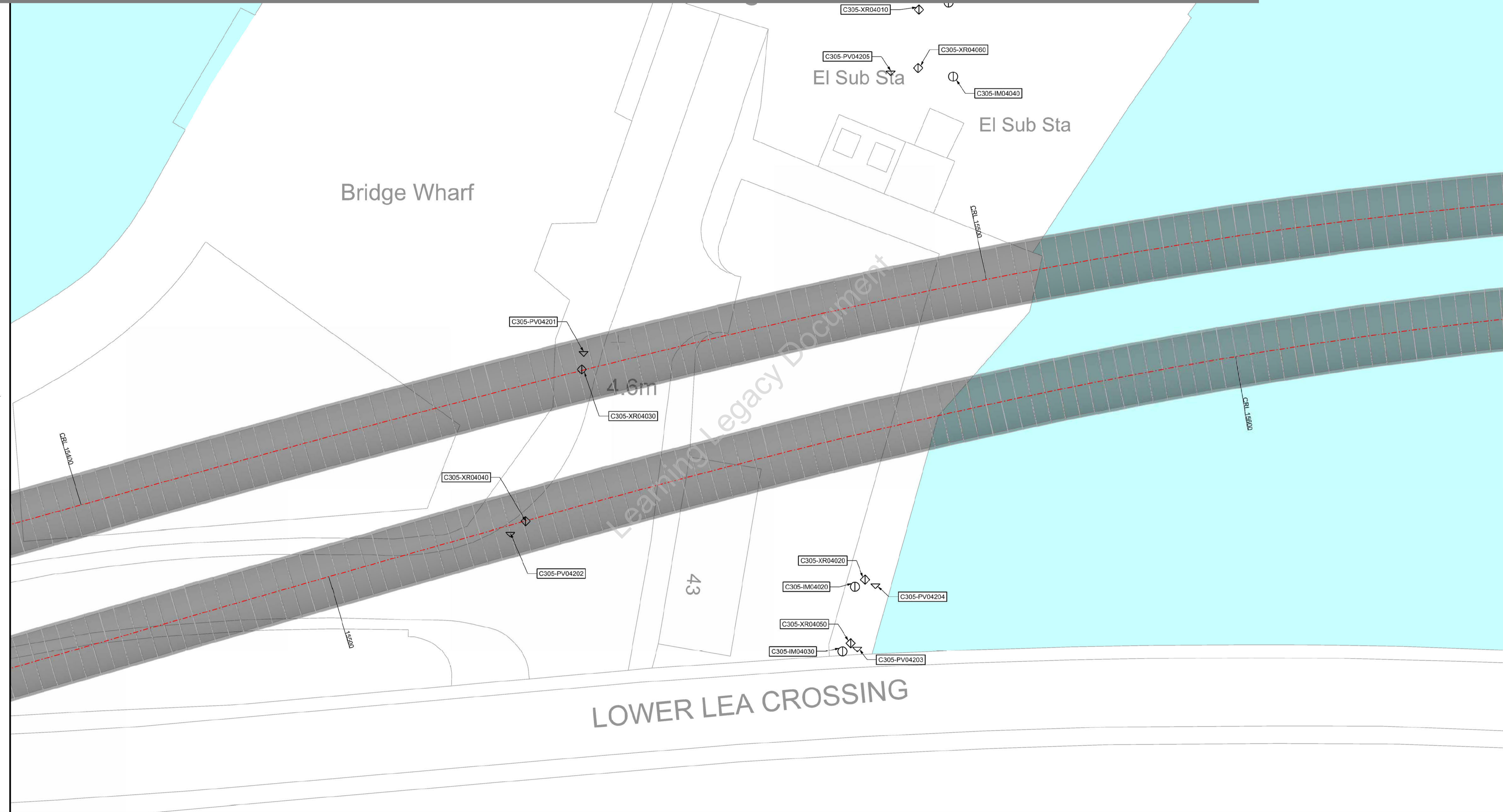
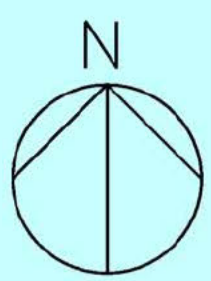
It has been agreed between the Project Manager, the Designer, the Contractor and the Sub Contractor that the instrumentation covered herein, for monitoring ground movement effects of Crossrail works, including long term effects, but which have been subsequently affected by dewatering of cross passages, stations or shafts, prior to the achievement of 12 months 'post-TBM' long term monitoring, can be closed out for decommissioning as the following criteria has been met:

- The trends of the monitoring points, prior to commencement of dewatering, was approaching or had achieved the specified 2 mm/year settlement rate; and
- Local monitoring of the effects of dewatering, directly around the Cross passage 14, shows that ground movement has stabilized to an acceptable rate (<2 mm/year) for a period of at least three months.

Minutes of the Close Out meeting are attached as Appendix C.

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APPENDIX A:
LOCATION OF THE WORKS



Rev.	Date	Description	By	Chkd	App	Auth
P01	25/03/2014	First Issue	AH	AH	RC	-
P02	18/06/2015	---	MD	RC	RC	-

Notes

- ⊕ Inclinator
- ◊ Rod Extensometer
- ▽ Vibrating Wire Piezometer



Contract:
Tunnels East - Drive Y LIM to FAR & Drive Z SGJ to PML & Drive G

Originator:
Dragados Sisk Joint Venture

Location:
Crossrail Tunnels - Drive Y (Limmo Peninsula to Farringdon Stn)

By: M.DAVIS
Chk: R.CULLEN
App: R.CULLEN
Auth: ...

Crossrail Limited
25 Canada Square
Canary Wharf
London
E14 5LQ

© Crossrail
www.crossrail.co.uk

Scale: 1:200 @ A1
Drawing and CAD file No.: C305-DSJ-C2-DDA-CRT00_ST006_Z-08093

Rev: P02
Suitability: S4

RESTRICTED

Fit for authorisation

Learning Legacy Document

APPENDIX B:
SUMMARY OF INSTRUMENTATION INSTALLED ON SITE

IRS Installation Record Sheets

Sensor Type	Monitoring ID	Date Installation	Status	Sensor location - GPS reading (m)			Depth (m bgl)
				Easting X	Northings Y	Elevation Z (mATD)	
Inclinometer	C305-IM04010	24/07/2012	Installed	89612.178	35538.059	106.339	41.5
Inclinometer	C305-IM04020	22/06/2012	Installed	89602.179	35475.445	105.322	41
Inclinometer	C305-IM04030	21/06/2012	Installed	89600.853	35468.521	105.389	41
Inclinometer	C305-IM04040	17/07/2012	Installed	89612.67	35530.048	106.095	41.5
Vibrating Wire Piezometer	C305-PV04201	09/07/2012	Installed	89573.12	35500.526	105.182	26
Vibrating Wire Piezometer	C305-PV04202	09/07/2012	Installed	89565.259	35481.187	105.45	26
Vibrating Wire Piezometer	C305-PV04203	16/07/2012	Installed	89602.436	35468.869	105.375	32
Vibrating Wire Piezometer	C305-PV04204	12/07/2012	Installed	89604.377	35475.65	105.281	31.5
Vibrating Wire Piezometer	C305-PV04205	27/06/2012	Installed	89605.979	35530.595	106.16	32
Vibrating Wire Piezometer	C305-PV04206	27/06/2012	Installed	89606.421	35539.408	106.258	31.9
Rod Extensometer	C305-XR04010	12/07/2012	Installed	89609.006	35537.281	106.373	41
Rod Extensometer	C305-XR04020	04/07/2012	Installed	89603.269	35476.213	105.297	41
Rod Extensometer	C305-XR04030	28/07/2012	Installed	89572.919	35498.724	105.231	26.5
Rod Extensometer	C305-XR04040	21/08/2012	Installed	89566.902	35482.45	105.392	26.5
Rod Extensometer	C305-XR04050	04/07/2012	Installed	89601.725	35469.395	105.331	41
Rod Extensometer	C305-XR04060	19/07/2012	Installed	89608.914	35531.011	106.185	41

Notes: Depth is referred to the borehole and meters below ground level.

Coordinates for sensor location (Easting, Northings and elevation) are GPS readings.

All elevations or levels presented in this document are metres above tunnel datum (mATD).

COMMISSIONING READINGS ROD EXTENSOMETERS

Sensor Type	Monitoring ID	Sensor Depth	30/08/2012	04/09/2012	11/09/2012	Units
Rod Extensometer	C305-XR04010	Head Level	105.5379	105.5374	105.537	m
		XR0401041.00	103.7621	103.6683	103.6412	mm
		XR0401034.00	103.0922	102.7548	102.6699	mm
		XR0401027.00	103.7594	103.5736	103.4046	mm
		XR0401020.00	78.5352	77.7385	77.5981	mm
		XR0401014.00	102.6988	102.6988	102.6556	mm
		XR0401006.00	103.5920	103.1255	103.1587	mm
			30/08/2012	04/09/2012	11/09/2012	
Rod Extensometer	C305-XR04020	Head Level	104.3564	104.3562	104.356	m
		XR0402041.00	100.6873	100.1773	100.0141	mm
		XR0402034.00	102.2942	102.2510	102.3107	mm
		XR0402027.00	103.3536	103.2893	103.2582	mm
		XR0402020.00	103.0257	102.9841	102.9862	mm
		XR0402014.00	137.7466	137.6718	137.5859	mm
		XR0402006.00	102.6031	102.6301	102.6218	mm
			30/08/2012	04/09/2012	11/09/2012	
Rod Extensometer	C305-XR04030	Head Level	104.6411	104.6411	104.641	m
		XR0403026.50	102.5701	102.2189	103.9042	mm
		XR0403022.00	102.7125	102.4718	103.4948	mm
		XR0403017.50	102.8954	102.6322	103.2644	mm
		XR0403013.00	104.3762	104.1356	103.4808	mm
		XR0403008.50	101.6547	101.2281	102.5780	mm
		XR0403004.00	103.7962	103.6777	99.6839	mm
			04/09/2012	11/09/2012	18/09/2012	
Rod Extensometer	C305-XR04040	Head Level	104.7889	104.7882	104.7882	m
		XR0404026.50	103.7877	103.4554	103.7378	mm
		XR0404022.00	103.9314	102.6717	103.8085	mm
		XR0404017.50	104.1715	103.5003	104.1862	mm
		XR0404013.00	102.6508	103.2395	102.4767	mm
		XR0404008.50	102.1855	100.8579	102.1445	mm
		XR0404004.00	100.5284	104.4730	100.4194	mm
			30/08/2012	04/09/2012	11/09/2012	
Rod Extensometer	C305-XR04050	Head Level	104.6245	104.624	104.623	m
		XR0405041.00	102.8154	102.6670	102.6154	mm
		XR0405034.00	102.6092	102.4051	102.2814	mm
		XR0405027.00	103.7941	103.7483	103.7088	mm
		XR0405020.00	102.6281	102.3991	102.3083	mm
		XR0405014.00	102.7627	102.6635	102.5211	mm
		XR0405006.00	103.7483	103.7255	103.6194	mm

COMMISSIONING READINGS ROD EXTENSOMETERS

			30/08/2012	04/09/2012	11/09/2012	
Rod Extensometer	C305-XR04060	<i>Head Level</i>	<i>105.4497</i>	<i>105.4495</i>	105.449	m
		<i>XR0406041.00</i>	103.7915	103.4989	103.4242	mm
		<i>XR0406034.00</i>	101.3316	100.5636	100.2959	mm
		<i>XR0406027.00</i>	103.0958	102.6286	102.5397	mm
		<i>XR0406020.00</i>	103.5755	103.2259	103.1073	mm
		<i>XR0406014.00</i>	103.7160	103.4529	103.3845	mm
		<i>XR0406006.00</i>	102.8438	102.8006	102.7246	mm

Notes: Depth in rod extensometers is referred ground level.

Head level is the level survey point (levelling point) fixed to the top of the reference head.

All elevations or levels presented in this document are metres above tunnel datum (mATD).

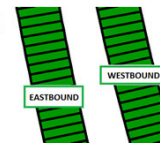
COMMISSIONING READINGS PIEZOMETERS

Sensor Type	Monitoring ID	Commissioning readings			Units
		07/08/2012 15:00	07/08/2012 16:00	07/08/2012 17:00	
Vibrating Wire Piezometer	C305-PV04201	101.9420	101.1320	100.7420	m
		13/08/2012 11:00	13/08/2012 12:00	08/11/2012 08:58	
Vibrating Wire Piezometer	C305-PV04202	97.9310	98.1970	97.6100	m
		08/08/2012 14:00	08/08/2012 15:00	08/08/2012 16:00	
Vibrating Wire Piezometer	C305-PV04203	99.0500	99.3820	99.9110	m
		31/10/2012 14:39	31/10/2012 14:39	31/10/2012 14:40	
Vibrating Wire Piezometer	C305-PV04204	97.9320	97.9200	97.9190	m
		26/07/2012 13:00	26/07/2012 14:00	26/07/2012 15:00	
Vibrating Wire Piezometer	C305-PV04205	93.6170	93.6230	93.6520	m
		03/09/2012 12:00	03/09/2012 13:00	03/09/2012 14:00	
Vibrating Wire Piezometer	C305-PV04206	95.4886	95.5716	95.7306	m

Notes: All elevations or levels presented in this document are metres above tunnel datum (mATD)

C305-IM04010

Serial number probe: 1035333

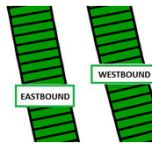


26/07/2012 11:00

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-41	-196	1818	-1755	1.938	44.663	-273.600	334.488
1	46	-304	1637	-1595	4.375	40.400	-275.538	289.825
1.5	-32	-214	1428	-1355	2.275	34.788	-279.913	249.425
2	-156	-33	1196	-1133	-1.538	29.113	-282.188	214.638
2.5	-276	32	870	-787	-3.850	20.713	-280.650	185.525
3	-237	18	514	-449	-3.188	12.038	-276.800	164.813
3.5	-171	-43	205	-158	-1.600	4.538	-273.613	152.775
4	-251	-1	26	-28	-3.125	0.675	-272.013	148.238
4.5	-449	200	119	-91	-8.113	2.625	-268.888	147.563
5	-490	265	11	22	-9.438	-0.138	-260.775	144.938
5.5	-419	151	-255	322	-7.125	-7.213	-251.338	145.075
6	-321	83	-466	533	-5.050	-12.488	-244.213	152.288
6.5	-202	-37	-714	762	-2.063	-18.450	-239.163	164.775
7	-62	-148	-921	979	1.075	-23.750	-237.100	183.225
7.5	-137	-118	-974	1063	-0.238	-25.463	-238.175	206.975
8	0	-216	-760	804	2.700	-19.550	-237.938	232.438
8.5	205	-491	-610	705	8.700	-16.438	-240.638	251.988
9	413	-655	-683	739	13.350	-17.775	-249.338	268.425
9.5	815	-1050	-460	502	23.313	-12.025	-262.688	286.200
10	1021	-1263	-488	544	28.550	-12.900	-286.000	298.225
10.5	954	-1189	-429	483	26.788	-11.400	-314.550	311.125
11	695	-956	-308	393	20.638	-8.763	-341.338	322.525
11.5	578	-804	-250	299	17.275	-6.863	-361.975	331.288
12	458	-725	-209	251	14.788	-5.750	-379.250	338.150
12.5	336	-558	-161	238	11.175	-4.988	-394.038	343.900
13	186	-459	-95	108	8.063	-2.538	-405.213	348.888
13.5	51	-292	-132	196	4.288	-4.100	-413.275	351.425
14	-136	-89	-231	286	-0.588	-6.463	-417.563	355.525
14.5	-290	25	-275	314	-3.938	-7.363	-416.975	361.988
15	-337	101	-214	272	-5.475	-6.075	-413.038	369.350
15.5	-420	169	-139	209	-7.363	-4.350	-407.563	375.425
16	-457	215	-94	130	-8.400	-2.800	-400.200	379.775
16.5	-529	263	-84	137	-9.900	-2.763	-391.800	382.575
17	-586	348	-112	156	-11.675	-3.350	-381.900	385.338
17.5	-646	404	-144	197	-13.125	-4.263	-370.225	388.688
18	-594	356	-194	228	-11.875	-5.275	-357.100	392.950
18.5	-516	279	-216	270	-9.938	-6.075	-345.225	398.225
19	-537	284	-242	270	-10.263	-6.400	-335.288	404.300
19.5	-536	275	46	-13	-10.138	0.738	-325.025	410.700
20	-500	244	209	-143	-9.300	4.400	-314.888	409.963
20.5	-362	153	18	22	-6.438	-0.050	-305.588	405.563
21	-285	20	-21	51	-3.813	-0.900	-299.150	405.613
21.5	-156	-55	-62	98	-1.263	-2.000	-295.338	406.513
22	-107	-112	-202	260	0.063	-5.775	-294.075	408.513
22.5	-80	-126	-313	380	0.575	-8.663	-294.138	414.288
23	-85	-138	-227	296	0.663	-6.538	-294.713	422.950
23.5	-69	-155	-57	81	1.075	-1.725	-295.375	429.488
24	-111	-121	99	-78	0.125	2.213	-296.450	431.213
24.5	-128	-80	242	-176	-0.600	5.225	-296.575	429.000
25	-140	-90	330	-299	-0.625	7.863	-295.975	423.775
25.5	-13	-252	413	-344	2.988	9.463	-295.350	415.913
26	-116	-103	546	-489	-0.163	12.938	-298.338	406.450
26.5	-242	-7	610	-526	-2.938	14.200	-298.175	393.513
27	-253	18	612	-552	-3.388	14.550	-295.238	379.313
27.5	-277	18	691	-638	-3.688	16.613	-291.850	364.763
28	-269	16	749	-697	-3.563	18.075	-288.163	348.150
28.5	-336	84	870	-838	-5.250	21.350	-284.600	330.075
29	-358	134	961	-888	-6.150	23.113	-279.350	308.725
29.5	-377	115	845	-766	-6.150	20.138	-273.200	285.613
30	-403	167	676	-640	-7.125	16.450	-267.050	265.475
30.5	-413	156	558	-491	-7.113	13.113	-259.925	249.025
31	-370	140	471	-403	-6.375	10.925	-252.813	235.913
31.5	-462	217	430	-370	-8.488	10.000	-246.438	224.988
32	-446	189	511	-442	-7.938	11.913	-237.950	214.988
32.5	-315	76	480	-429	-4.888	11.363	-230.013	203.075
33	-214	-38	434	-355	-2.200	9.863	-225.125	191.713
33.5	-50	-149	346	-294	1.238	8.000	-222.925	181.850
34	15	-256	382	-315	3.388	8.713	-224.163	173.850
34.5	-46	-196	426	-391	1.875	10.213	-227.550	165.138
35	-100	-108	481	-420	0.100	11.263	-229.425	154.925
35.5	-209	-27	430	-399	-2.275	10.363	-229.525	143.663
36	-358	90	609	-555	-5.600	14.550	-227.250	133.300
36.5	-603	374	704	-664	-12.213	17.100	-221.650	118.750
37	-803	562	784	-739	-17.063	19.038	-209.438	101.650
37.5	-1024	757	885	-842	-22.263	21.588	-192.375	82.613
38	-1326	1103	792	-744	-30.363	19.200	-170.113	61.025
38.5	-1518	1250	548	-488	-34.600	12.950	-139.750	41.825
39	-1498	1242	371	-302	-34.250	8.413	-105.150	28.875
39.5	-1539	1300	382	-327	-35.488	8.863	-70.900	20.463
40	-1548	1285	489	-439	-35.413	11.600	-35.413	11.600
Reference Point (40.5 m)							0.000	0.000

C305-IM04010

Serial number probe: 1032604

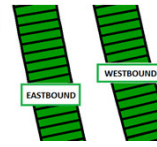
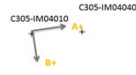


27/07/2012 13:00

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	143	-35	1653	-1913	2.225	44.575	-256.663	341.575
1	226	-123	1486	-1761	4.363	40.588	-258.888	297.000
1.5	164	-51	1271	-1523	2.688	34.925	-263.250	256.413
2	24	128	1040	-1304	-1.300	29.300	-265.938	221.488
2.5	-100	194	702	-960	-3.675	20.775	-264.638	192.188
3	-68	183	347	-616	-3.138	12.038	-260.963	171.413
3.5	19	114	44	-327	-1.188	4.638	-257.825	159.375
4	-72	179	-123	-188	-3.138	0.813	-256.638	154.738
4.5	-283	376	-32	-266	-8.238	2.925	-253.500	153.925
5	-319	436	-157	-137	-9.438	-0.250	-245.263	151.000
5.5	-229	325	-430	155	-6.925	-7.313	-235.825	151.250
6	-136	255	-636	383	-4.888	-12.738	-228.900	158.563
6.5	-10	130	-869	604	-1.750	-18.413	-224.013	171.300
7	124	20	-1092	813	1.300	-23.813	-222.263	189.713
7.5	59	57	-1140	888	0.025	-25.350	-223.563	213.525
8	172	-55	-904	633	2.838	-19.213	-223.588	238.875
8.5	399	-312	-771	529	8.888	-16.250	-226.425	258.088
9	590	-483	-842	581	13.413	-17.788	-235.313	274.338
9.5	1009	-892	-605	347	23.763	-11.900	-248.725	292.125
10	1212	-1112	-636	379	29.050	-12.688	-272.488	304.025
10.5	1132	-1026	-582	310	26.975	-11.150	-301.538	316.713
11	889	-791	-473	219	21.000	-8.650	-328.513	327.863
11.5	764	-647	-408	133	17.638	-6.763	-349.513	336.513
12	637	-547	-364	93	14.800	-5.713	-367.150	343.275
12.5	523	-398	-325	64	11.513	-4.863	-381.950	348.988
13	381	-298	-247	-50	8.488	-2.463	-393.463	353.850
13.5	237	-122	-298	28	4.488	-4.075	-401.950	356.313
14	48	77	-389	113	-0.363	-6.275	-406.438	360.388
14.5	-103	203	-439	161	-3.825	-7.500	-406.075	366.663
15	-154	270	-368	102	-5.300	-5.875	-402.250	374.163
15.5	-244	332	-305	35	-7.200	-4.250	-396.950	380.038
16	-264	389	-257	-37	-8.163	-2.750	-389.750	384.288
16.5	-336	430	-254	-35	-9.575	-2.738	-381.588	387.038
17	-400	504	-282	-10	-11.300	-3.400	-372.013	389.775
17.5	-467	569	-296	35	-12.950	-4.138	-360.713	393.175
18	-410	513	-347	75	-11.538	-5.275	-347.763	397.313
18.5	-343	451	-382	111	-9.925	-6.163	-336.225	402.588
19	-351	449	-387	106	-10.000	-6.163	-326.300	408.750
19.5	-350	454	-127	-174	-10.050	0.588	-316.300	414.913
20	-318	409	48	-318	-9.088	4.575	-306.250	414.325
20.5	-194	312	-146	-145	-6.325	-0.013	-297.163	409.750
21	-93	183	-176	-119	-3.450	-0.713	-290.838	409.763
21.5	34	113	-223	-60	-0.988	-2.038	-287.388	410.475
22	69	49	-360	96	0.250	-5.700	-286.400	412.513
22.5	100	42	-483	220	0.725	-8.788	-286.650	418.213
23	105	22	-387	117	1.038	-6.300	-287.375	427.000
23.5	112	24	-203	-97	1.100	-1.325	-288.413	433.300
24	74	42	-52	-242	0.400	2.375	-289.513	434.625
24.5	63	83	79	-346	-0.250	5.313	-289.913	432.250
25	51	75	182	-447	-0.300	7.863	-289.663	426.938
25.5	170	-77	245	-514	3.088	9.488	-289.363	419.075
26	82	56	381	-646	0.325	12.838	-292.450	409.588
26.5	-85	157	447	-706	-2.650	14.413	-292.775	396.750
27	-67	179	469	-729	-3.075	14.975	-290.125	382.338
27.5	-90	190	541	-807	-3.500	16.850	-287.050	367.363
28	-87	189	597	-850	-3.450	18.088	-283.550	350.513
28.5	-145	243	727	-991	-4.850	21.475	-280.100	332.425
29	-187	304	805	-1059	-6.138	23.300	-275.250	310.950
29.5	-200	288	680	-932	-6.100	20.150	-269.113	287.650
30	-222	344	526	-793	-7.075	16.488	-263.013	267.500
30.5	-228	327	387	-652	-6.938	12.988	-255.938	251.013
31	-184	301	300	-566	-6.063	10.825	-249.000	238.025
31.5	-280	384	264	-542	-8.300	10.075	-242.938	227.200
32	-272	362	347	-615	-7.925	12.025	-234.638	217.125
32.5	-142	258	331	-611	-5.000	11.775	-226.713	205.100
33	-39	139	272	-537	-2.225	10.113	-221.713	193.325
33.5	126	7	184	-464	1.488	8.100	-219.488	183.213
34	197	-97	217	-480	3.675	8.713	-220.975	175.113
34.5	140	-25	270	-549	2.063	10.238	-224.650	166.400
35	67	54	321	-584	0.163	11.313	-226.713	156.163
35.5	-26	148	278	-552	-2.175	10.375	-226.875	144.850
36	-170	257	451	-724	-5.338	14.688	-224.700	134.475
36.5	-414	531	541	-822	-11.813	17.038	-219.363	119.788
37	-829	718	635	-906	-16.838	19.263	-207.550	102.750
37.5	-831	934	727	-1006	-22.063	21.663	-190.713	83.488
38	-1142	1255	646	-915	-29.963	19.513	-168.650	61.825
38.5	-1321	1423	380	-659	-34.300	12.988	-138.688	42.313
39	-1324	1415	207	-473	-34.238	8.500	-104.388	29.325
39.5	-1350	1461	221	-492	-35.138	8.913	-70.150	20.825
40	-1356	1445	339	-614	-35.013	11.913	-35.013	11.913
Reference Point (40.5 m)							0.000	0.000

C305-IM04010

Serial number probe: 1035333

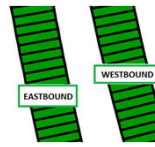
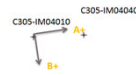


26/07/2012 12:00

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-21	-191	1800	-1756	2.125	44.450	-264.763	329.738
1	43	-303	1624	-1564	4.325	39.850	-266.888	285.288
1.5	-13	-222	1422	-1363	2.613	34.813	-271.213	245.438
2	-149	-43	1164	-1116	-1.325	28.500	-273.825	210.625
2.5	-270	17	840	-802	-3.588	20.525	-272.500	182.125
3	-233	29	504	-439	-3.275	11.788	-268.913	161.600
3.5	-150	-47	214	-157	-1.288	4.638	-265.638	149.813
4	-233	24	27	-7	-3.213	0.425	-264.350	145.175
4.5	-449	212	100	-101	-8.263	2.513	-261.138	144.750
5	-496	265	-28	46	-9.513	-0.925	-252.875	142.238
5.5	-394	162	-295	345	-6.950	-8.000	-243.363	143.163
6	-305	96	-513	538	-5.013	-13.138	-236.413	151.163
6.5	-173	-32	-734	774	-1.763	-18.850	-231.400	164.300
7	-52	-132	-946	980	1.000	-24.075	-229.638	183.150
7.5	-117	-93	-1003	1043	-0.300	-25.575	-230.638	207.225
8	-8	-220	-752	780	2.650	-19.150	-230.338	232.800
8.5	253	-491	-631	703	9.300	-16.675	-232.988	251.950
9	410	-648	-693	721	13.225	-17.675	-242.288	268.625
9.5	841	-1054	-462	508	23.688	-12.125	-255.513	286.300
10	1041	-1268	-492	530	28.863	-12.775	-279.200	298.425
10.5	966	-1178	-441	464	26.800	-11.313	-308.063	311.200
11	724	-957	-350	382	21.013	-9.150	-334.863	322.513
11.5	585	-812	-261	282	17.463	-6.788	-355.875	331.663
12	464	-712	-209	261	14.700	-5.875	-373.338	338.450
12.5	350	-563	-176	205	11.413	-4.763	-388.038	344.325
13	200	-453	-104	112	8.163	-2.700	-399.450	349.088
13.5	74	-284	-167	184	4.475	-4.388	-407.613	351.788
14	-117	-73	-235	277	-0.550	-6.400	-412.088	356.175
14.5	-264	41	-285	307	-3.813	-7.400	-411.538	362.575
15	-333	101	-217	264	-5.425	-6.013	-407.725	369.975
15.5	-413	184	-155	187	-7.463	-4.275	-402.300	375.988
16	-436	236	-102	110	-8.400	-2.650	-394.838	380.263
16.5	-514	261	-112	118	-9.688	-2.875	-386.438	382.913
17	-571	335	-148	155	-11.325	-3.788	-376.750	385.788
17.5	-632	409	-162	169	-13.013	-4.138	-365.425	389.575
18	-568	359	-200	217	-11.588	-5.213	-352.413	393.713
18.5	-512	278	-234	255	-9.875	-6.113	-340.825	398.925
19	-517	279	-248	264	-9.950	-6.400	-330.950	405.038
19.5	-514	278	30	-2	-9.900	0.400	-321.000	411.438
20	-492	239	176	-168	-9.138	4.300	-311.100	411.038
20.5	-366	142	3	-7	-6.350	0.125	-301.963	406.738
21	-271	6	-41	26	-3.463	-0.838	-295.613	406.613
21.5	-143	-57	-71	76	-1.075	-1.838	-292.150	407.450
22	-98	-116	-209	255	0.225	-5.800	-291.075	409.288
22.5	-70	-124	-329	373	0.675	-8.775	-291.300	415.088
23	-79	-151	-222	258	0.900	-6.000	-291.975	423.863
23.5	-61	-140	-47	60	0.988	-1.338	-292.875	429.863
24	-104	-115	102	-92	0.138	2.425	-293.863	431.200
24.5	-106	-66	239	-201	-0.500	5.500	-294.000	428.775
25	-127	-86	322	-300	-0.513	7.775	-293.500	423.275
25.5	7	-235	387	-340	3.025	9.088	-292.988	415.500
26	-77	-114	525	-487	0.463	12.650	-296.013	406.413
26.5	-240	5	567	-581	-3.063	14.350	-296.475	393.763
27	-237	17	615	-581	-3.175	14.950	-293.413	379.413
27.5	-258	34	670	-655	-3.650	16.563	-290.238	364.463
28	-244	19	736	-710	-3.288	18.075	-286.588	347.900
28.5	-326	84	867	-850	-5.125	21.463	-283.300	329.825
29	-354	147	950	-911	-6.263	23.263	-278.175	308.363
29.5	-385	125	817	-789	-6.375	20.075	-271.913	285.100
30	-398	168	668	-632	-7.075	16.250	-265.538	265.025
30.5	-408	171	534	-502	-7.238	12.950	-258.463	248.775
31	-355	129	454	-406	-6.050	10.750	-251.225	235.825
31.5	-459	229	422	-380	-8.600	10.025	-245.175	225.075
32	-446	194	486	-457	-8.000	11.788	-236.575	215.050
32.5	-325	102	488	-457	-5.338	11.813	-228.575	203.263
33	-212	-41	427	-389	-2.138	10.200	-223.238	191.450
33.5	-46	-151	318	-301	1.313	7.738	-221.100	181.250
34	27	-263	339	-339	3.625	8.475	-222.413	173.513
34.5	-24	-183	420	-378	1.988	9.975	-226.038	165.038
35	-107	-114	471	-442	0.088	11.413	-228.025	155.063
35.5	-182	-15	419	-396	-2.088	10.188	-228.113	143.650
36	-350	92	603	-582	-5.525	14.813	-226.025	133.463
36.5	-587	360	687	-663	-11.838	16.875	-220.500	118.650
37	-813	570	775	-764	-17.288	19.238	-208.663	101.775
37.5	-1013	782	885	-843	-22.438	21.600	-191.375	82.538
38	-1314	1083	787	-752	-29.963	19.238	-168.938	60.938
38.5	-1492	1249	530	-489	-34.263	12.738	-138.975	41.700
39	-1488	1250	359	-317	-34.225	8.450	-104.713	28.963
39.5	-1526	1292	376	-329	-35.225	8.813	-70.488	20.513
40	-1534	1287	491	-445	-35.263	11.700	-35.263	11.700
Reference Point (40.5 m)							0.000	0.000

C305-IM04010

Serial number probe: 1032604



27/07/2012 14:00

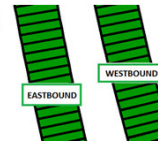
Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	159	-30	1642	-1916	2.363	44.475	-249.413	336.750
1	237	-127	1470	-1736	4.550	40.075	-251.775	292.275
1.5	175	-52	1257	-1530	2.838	34.838	-256.325	252.200
2	41	124	1018	-1292	-1.038	28.875	-259.163	217.363
2.5	-82	194	684	-957	-3.450	20.513	-258.125	188.488
3	-56	191	346	-616	-3.088	12.025	-254.675	167.975
3.5	33	119	47	-327	-1.075	4.675	-251.588	155.950
4	-60	184	-127	-178	-3.050	0.638	-250.513	151.275
4.5	-271	385	-56	-262	-8.200	2.575	-247.463	150.638
5	-305	442	-176	-128	-9.338	-0.600	-239.263	148.063
5.5	-219	327	-444	172	-6.825	-7.700	-229.925	148.663
6	-127	259	-668	380	-4.825	-13.100	-223.100	156.363
6.5	18	135	-901	613	-1.463	-18.925	-218.275	169.463
7	128	32	-1115	817	1.200	-24.150	-216.813	188.388
7.5	73	75	-1154	871	-0.025	-25.313	-218.013	212.538
8	182	-53	-906	622	2.938	-19.100	-217.988	237.850
8.5	428	-312	-789	529	9.250	-16.475	-220.925	256.950
9	598	-482	-652	559	13.500	-17.638	-230.175	273.425
9.5	1022	-888	-619	336	23.875	-11.938	-243.675	291.063
10	1225	-1107	-644	362	29.150	-12.575	-267.550	303.000
10.5	1144	-1019	-595	308	27.038	-11.288	-296.700	315.575
11	899	-789	-503	215	21.100	-8.975	-323.738	326.863
11.5	778	-647	-419	121	17.813	-6.750	-344.838	335.838
12	648	-542	-373	88	14.875	-5.763	-362.650	342.588
12.5	541	-397	-328	40	11.725	-4.600	-377.525	348.350
13	393	-293	-259	-55	8.575	-2.550	-389.250	352.950
13.5	255	-115	-313	27	4.625	-4.250	-397.825	355.500
14	61	84	-394	111	-0.288	-6.313	-402.450	359.750
14.5	-86	210	-451	148	-3.700	-7.488	-402.163	366.063
15	-144	273	-385	91	-5.213	-5.950	-398.463	373.550
15.5	-226	340	-320	34	-7.075	-4.425	-393.250	379.500
16	-258	394	-252	-53	-8.150	-2.488	-386.175	383.925
16.5	-321	436	-269	-51	-9.463	-2.725	-378.025	386.413
17	-391	512	-302	-8	-11.288	-3.675	-368.563	389.138
17.5	-453	574	-318	6	-12.838	-4.050	-357.275	392.813
18	-398	518	-363	53	-11.450	-5.200	-344.438	396.863
18.5	-331	456	-394	100	-9.838	-6.175	-332.988	402.063
19	-339	455	-406	89	-9.925	-6.188	-323.150	408.238
19.5	-330	456	-133	-177	-9.825	0.550	-313.225	414.425
20	-304	411	24	-334	-8.938	4.475	-303.400	413.875
20.5	-185	316	-161	-166	-6.263	0.063	-294.463	409.400
21	-80	183	-197	-128	-3.288	-0.863	-288.200	409.338
21.5	45	120	-239	-91	-0.938	-1.850	-284.913	410.200
22	79	55	-375	84	0.300	-5.738	-283.975	412.050
22.5	113	46	-498	210	0.838	-8.850	-284.275	417.788
23	116	27	-386	102	1.113	-6.100	-285.113	426.638
23.5	122	30	-206	-111	1.150	-1.188	-286.225	432.738
24	89	47	-57	-263	0.525	2.575	-287.375	433.925
24.5	69	92	83	-365	-0.288	5.600	-287.900	431.350
25	65	83	167	-462	-0.225	7.863	-287.613	425.750
25.5	185	-72	231	-515	3.213	9.325	-287.388	417.888
26	95	62	370	-662	0.413	12.900	-290.600	408.563
26.5	-48	162	420	-735	-2.625	14.438	-291.013	395.663
27	-52	189	448	-747	-3.013	14.938	-288.388	381.225
27.5	-77	195	521	-824	-3.400	16.813	-285.375	366.288
28	-72	195	586	-864	-3.338	18.125	-281.975	349.475
28.5	-140	252	714	-1003	-4.900	21.463	-278.638	331.350
29	-171	306	780	-1075	-5.963	23.188	-273.738	309.888
29.5	-192	297	662	-950	-6.113	20.150	-267.775	286.700
30	-213	340	505	-800	-6.913	16.313	-261.663	266.550
30.5	-218	330	373	-665	-6.850	12.975	-254.750	250.238
31	-173	303	290	-578	-5.950	10.850	-247.900	237.263
31.5	-275	389	258	-541	-8.300	9.988	-241.950	226.413
32	-264	366	338	-630	-7.875	12.100	-233.650	216.425
32.5	-130	261	326	-626	-4.888	11.900	-225.775	204.325
33	-24	138	260	-552	-2.025	10.150	-220.888	192.425
33.5	137	17	166	-471	1.500	7.963	-218.863	182.275
34	204	-92	186	-497	3.700	8.538	-220.363	174.313
34.5	152	-21	258	-552	2.163	10.125	-224.063	165.775
35	74	59	306	-600	0.188	11.325	-226.225	155.650
35.5	-6	156	266	-557	-2.025	10.288	-226.413	144.325
36	-165	263	443	-734	-5.350	14.713	-224.388	134.038
36.5	-407	538	526	-832	-11.813	16.975	-219.038	119.325
37	-622	723	622	-929	-16.813	19.388	-207.225	102.350
37.5	-823	942	720	-1006	-22.063	21.575	-190.413	82.963
38	-1134	1258	635	-923	-29.900	19.475	-168.350	61.388
38.5	-1308	1427	371	-658	-34.188	12.863	-138.450	41.913
39	-1314	1424	195	-477	-34.225	8.400	-104.263	29.050
39.5	-1338	1464	212	-495	-35.025	8.838	-70.038	20.650
40	-1351	1450	330	-615	-35.013	11.813	-35.013	11.813
Reference Point (40.5 m)							0.000	0.000

C305-IM04010

Serial number probe: 1035333



C305-IM04040

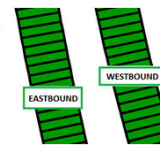
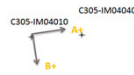


26/07/2012 13:00

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-18	-186	1797	-1760	2.100	44.463	-258.388	325.013
1	59	-271	1632	-1585	4.125	40.213	-260.488	280.550
1.5	3	-218	1425	-1359	2.763	34.800	-264.613	240.338
2	-134	-36	1185	-1138	-1.225	29.038	-267.375	205.538
2.5	-263	40	852	-791	-3.788	20.538	-266.150	176.500
3	-243	23	499	-454	-3.325	11.913	-262.363	155.963
3.5	-154	-43	197	-164	-1.388	4.513	-259.038	144.050
4	-232	14	37	-12	-3.075	0.613	-257.650	139.538
4.5	-460	221	104	-91	-8.513	2.438	-254.575	138.925
5	-481	268	-19	18	-9.363	-0.463	-246.063	136.488
5.5	-406	164	-286	324	-7.125	-7.625	-236.700	136.950
6	-297	89	-517	542	-4.825	-13.238	-229.575	144.575
6.5	-167	-30	-730	767	-1.713	-18.713	-224.750	157.813
7	-54	-146	-934	978	1.150	-23.900	-223.038	176.525
7.5	-101	-95	-1012	1035	-0.075	-25.588	-224.188	200.425
8	9	-231	-747	797	3.000	-19.300	-224.113	226.013
8.5	244	-476	-638	681	9.000	-16.488	-227.113	245.313
9	416	-650	-703	725	13.325	-17.850	-236.113	261.800
9.5	845	-1068	-452	494	23.913	-11.825	-249.438	279.650
10	1049	-1284	-484	532	29.163	-12.700	-273.350	291.475
10.5	958	-1195	-445	475	26.913	-11.500	-302.513	304.175
11	730	-968	-350	386	21.225	-9.200	-329.425	315.675
11.5	591	-811	-269	288	17.525	-6.963	-350.650	324.875
12	464	-714	-221	263	14.725	-6.050	-368.175	331.838
12.5	361	-559	-175	202	11.500	-4.713	-382.900	337.888
13	209	-459	-100	118	8.350	-2.725	-394.400	342.600
13.5	78	-278	-153	191	4.450	-4.300	-402.750	345.325
14	-119	-74	-238	285	-0.563	-6.538	-407.200	349.625
14.5	-263	49	-291	326	-3.900	-7.713	-406.638	356.163
15	-324	98	-236	272	-5.275	-6.350	-402.738	363.875
15.5	-413	169	-172	186	-7.275	-4.475	-397.463	370.225
16	-427	227	-98	121	-8.175	-2.738	-390.188	374.700
16.5	-503	266	-112	118	-9.613	-2.875	-382.013	377.438
17	-572	351	-147	149	-11.538	-3.700	-372.400	380.313
17.5	-630	408	-167	191	-12.975	-4.475	-360.863	384.013
18	-582	348	-197	228	-11.625	-5.313	-347.888	388.488
18.5	-513	294	-251	287	-10.088	-6.725	-336.263	393.800
19	-522	282	-228	274	-10.050	-6.275	-326.175	400.525
19.5	-503	295	31	-6	-9.975	0.463	-316.125	406.800
20	-475	248	181	-140	-9.038	4.013	-306.150	406.338
20.5	-373	142	-5	12	-6.438	-0.213	-297.113	402.325
21	-260	15	-48	39	-3.438	-1.088	-290.675	402.538
21.5	-137	-53	-70	89	-1.050	-1.988	-287.238	403.625
22	-91	-122	-222	258	0.388	-6.000	-286.188	405.613
22.5	-64	-121	-337	384	0.713	-9.013	-286.575	411.613
23	-55	-138	-245	282	1.038	-6.588	-287.288	420.625
23.5	-51	-138	-67	54	1.088	-1.513	-288.325	427.213
24	-81	-114	99	-100	0.413	2.488	-289.413	428.725
24.5	-102	-85	218	-200	-0.213	5.225	-289.825	426.238
25	-109	-89	303	-292	-0.250	7.438	-289.613	421.013
25.5	8	-239	389	-343	3.088	9.150	-289.363	413.575
26	-81	-100	518	-496	0.238	12.675	-292.450	404.425
26.5	-231	-4	583	-562	-2.838	14.313	-292.688	391.750
27	-235	22	614	-588	-3.213	15.025	-289.850	377.438
27.5	-256	27	690	-665	-3.538	16.938	-286.638	362.413
28	-246	27	745	-708	-3.413	18.163	-283.100	345.475
28.5	-316	80	882	-834	-4.950	21.450	-279.688	327.313
29	-352	128	930	-896	-6.000	22.825	-274.738	305.863
29.5	-361	136	826	-783	-6.213	20.113	-268.738	283.038
30	-397	182	662	-630	-7.238	16.150	-262.525	262.925
30.5	-390	153	527	-488	-6.788	12.688	-255.288	246.775
31	-365	132	437	-414	-6.213	10.638	-248.500	234.088
31.5	-444	223	420	-379	-8.338	9.988	-242.288	223.450
32	-434	188	490	-463	-7.775	11.913	-233.950	213.463
32.5	-311	83	473	-437	-4.925	11.375	-226.175	201.550
33	-197	-40	409	-386	-1.963	9.938	-221.250	190.175
33.5	-43	-155	325	-302	1.400	7.838	-219.288	180.238
34	22	-266	370	-320	3.600	8.625	-220.688	172.400
34.5	-31	-190	414	-398	1.988	10.150	-224.288	163.775
35	-96	-117	457	-425	0.263	11.025	-226.275	153.625
35.5	-165	-22	415	-384	-1.788	9.988	-226.538	142.600
36	-338	88	589	-558	-5.325	14.338	-224.750	132.613
36.5	-576	376	683	-664	-11.900	16.838	-219.425	118.275
37	-794	556	777	-752	-16.875	19.113	-207.525	101.438
37.5	-991	776	881	-835	-22.088	21.450	-190.650	82.325
38	-1302	1083	787	-755	-29.813	19.275	-168.563	60.875
38.5	-1480	1264	527	-501	-34.300	12.850	-138.750	41.600
39	-1480	1249	357	-309	-34.113	8.325	-104.450	28.750
39.5	-1518	1302	367	-327	-35.250	8.675	-70.338	20.425
40	-1522	1285	479	-461	-35.088	11.750	-35.088	11.750
Reference Point (40.5 m)							0.000	0.000

C305-IM04010

Serial number probe: 1032604

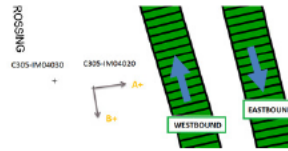


27/07/2012 15:00

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	163	-13	1632	-1923	2.200	44.438	-242.063	332.913
1	246	-109	1466	-1745	4.438	40.138	-244.263	288.475
1.5	178	-53	1263	-1533	2.888	34.950	-248.700	248.338
2	39	132	1027	-1306	-1.163	29.163	-251.588	213.388
2.5	-83	199	688	-965	-3.525	20.663	-250.425	184.225
3	-55	187	334	-617	-3.025	11.888	-246.900	163.563
3.5	38	119	42	-326	-1.013	4.600	-243.875	151.675
4	-55	178	-127	-180	-2.913	0.663	-242.863	147.075
4.5	-268	378	-53	-266	-8.075	2.663	-239.950	146.413
5	-303	438	-176	-156	-9.263	-0.250	-231.875	143.750
5.5	-215	325	-451	157	-6.750	-7.600	-222.613	144.000
6	-124	256	-668	371	-4.750	-12.988	-215.863	151.600
6.5	23	132	-886	598	-1.363	-18.550	-211.113	164.588
7	134	28	-1104	808	1.325	-23.900	-209.750	183.138
7.5	79	68	-1166	879	0.138	-25.563	-211.075	207.038
8	190	-59	-904	629	3.113	-19.163	-211.213	232.600
8.5	429	-317	-800	520	9.325	-16.500	-214.325	251.763
9	605	-485	-859	565	13.625	-17.800	-223.650	268.263
9.5	1028	-893	-617	333	24.013	-11.875	-237.275	286.063
10	1232	-1109	-642	374	29.263	-12.700	-261.288	297.938
10.5	1147	-1022	-594	312	27.113	-11.325	-290.550	310.638
11	906	-792	-497	220	21.225	-8.963	-317.663	321.963
11.5	781	-649	-423	127	17.875	-6.875	-338.888	330.925
12	653	-542	-369	103	14.938	-5.900	-356.783	337.800
12.5	543	-398	-332	45	11.763	-4.713	-371.700	343.700
13	395	-291	-260	-53	8.575	-2.588	-383.463	348.413
13.5	256	-119	-314	25	4.688	-4.238	-392.038	351.000
14	63	85	-396	120	-0.275	-6.450	-396.725	355.238
14.5	-88	208	-453	158	-3.700	-7.638	-396.450	361.688
15	-141	270	-384	99	-5.138	-6.038	-392.750	369.325
15.5	-226	339	-328	21	-7.063	-4.363	-387.613	375.363
16	-255	390	-259	-46	-8.063	-2.663	-380.550	379.725
16.5	-319	433	-268	-46	-9.400	-2.775	-372.488	382.388
17	-389	512	-299	-14	-11.263	-3.563	-363.088	385.163
17.5	-449	575	-322	22	-12.800	-4.300	-351.825	388.725
18	-394	516	-355	74	-11.375	-5.363	-339.025	393.025
18.5	-327	454	-400	117	-9.763	-6.463	-327.650	398.388
19	-334	454	-396	116	-9.850	-6.400	-317.888	404.850
19.5	-321	458	-134	-182	-9.738	0.600	-308.038	411.250
20	-299	410	26	-304	-8.863	4.125	-298.300	410.650
20.5	-180	314	-165	-162	-6.175	-0.038	-289.438	406.525
21	-74	179	-198	-120	-3.163	-0.975	-283.263	406.563
21.5	52	112	-234	-77	-0.750	-1.963	-280.100	407.538
22	86	55	-375	85	0.388	-5.750	-279.350	409.500
22.5	117	47	-495	211	0.875	-8.825	-279.738	415.250
23	123	24	-407	108	1.238	-6.438	-280.613	424.075
23.5	128	26	-224	-115	1.275	-1.363	-281.850	430.513
24	93	47	-65	-257	0.575	2.400	-283.125	431.875
24.5	75	90	69	-365	-0.188	5.425	-283.700	429.475
25	68	82	155	-464	-0.175	7.738	-283.513	424.050
25.5	191	-75	228	-514	3.325	9.275	-283.338	416.313
26	101	56	364	-659	0.563	12.788	-286.663	407.038
26.5	-39	158	424	-726	-2.463	14.375	-287.225	394.250
27	-44	180	451	-744	-2.800	14.938	-284.763	379.875
27.5	-69	190	522	-823	-3.238	16.813	-281.963	364.938
28	-66	185	575	-867	-3.138	18.025	-278.725	348.125
28.5	-133	249	715	-994	-4.775	21.363	-275.588	330.100
29	-164	299	780	-1070	-5.788	23.125	-270.813	308.738
29.5	-185	292	666	-943	-5.963	20.113	-265.025	285.613
30	-206	343	514	-801	-6.863	16.438	-259.063	265.500
30.5	-209	331	375	-663	-6.750	12.975	-252.200	249.063
31	-170	301	285	-573	-5.888	10.725	-245.450	236.088
31.5	-268	386	256	-539	-8.175	9.938	-239.563	225.363
32	-257	365	336	-625	-7.775	12.013	-231.388	215.425
32.5	-124	262	316	-613	-4.825	11.613	-223.613	203.413
33	-17	135	255	-545	-1.900	10.000	-218.788	191.800
33.5	144	14	173	-468	1.625	8.013	-216.888	181.800
34	211	-93	202	-486	3.800	8.600	-218.513	173.788
34.5	159	-25	261	-557	2.300	10.225	-222.313	165.188
35	81	55	304	-585	0.325	11.113	-224.613	154.963
35.5	8	150	262	-549	-1.775	10.138	-224.938	143.850
36	-155	260	440	-722	-5.188	14.525	-223.163	133.713
36.5	-393	536	529	-831	-11.613	17.000	-217.975	119.188
37	-615	723	621	-919	-16.725	19.250	-206.363	102.188
37.5	-814	941	720	-1003	-21.938	21.538	-189.638	82.938
38	-1124	1257	635	-926	-29.763	19.513	-167.700	61.400
38.5	-1300	1426	370	-861	-34.075	12.888	-137.938	41.888
39	-1305	1421	193	-477	-34.075	8.375	-103.863	29.000
39.5	-1329	1462	214	-497	-34.888	8.888	-69.788	20.625
40	-1342	1450	324	-615	-34.900	11.738	-34.900	11.738
Reference Point (40.5 m)							0.000	0.000

C305-IM04020

Serial number probe: 1035333

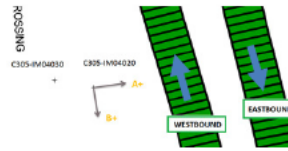


01/08/2012 14:23

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	984	-1237	-91	116	27.763	-2.588	570.888	-312.225
1	780	-974	-190	257	21.675	-5.588	543.125	-309.638
1.5	508	-744	5	52	15.650	-0.588	521.450	-304.050
2	338	-601	44	7	11.738	0.463	505.800	-303.463
2.5	289	-518	-143	212	10.088	-4.438	494.063	-303.925
3	243	-494	-286	354	9.213	-8.000	483.975	-299.488
3.5	172	-410	-300	381	7.275	-8.513	474.763	-291.488
4	155	-423	-385	422	7.225	-10.088	467.488	-282.975
4.5	-32	-190	-302	361	1.975	-8.288	460.263	-272.888
5	5	-255	-219	285	3.250	-6.300	458.288	-264.600
5.5	2	-240	-185	259	3.025	-5.550	455.038	-258.300
6	-34	-212	-140	189	2.225	-4.113	452.013	-252.750
6.5	-69	-159	-54	100	1.125	-1.925	449.788	-248.638
7	-41	-233	-39	66	2.400	-1.313	448.663	-246.713
7.5	153	-397	-182	244	6.875	-5.325	446.263	-245.400
8	162	-411	14	31	7.163	-0.213	439.388	-240.075
8.5	186	-452	270	-205	7.975	5.938	432.225	-239.863
9	271	-526	544	-469	9.963	12.663	424.250	-243.800
9.5	258	-501	734	-683	9.488	17.713	414.288	-258.463
10	278	-529	970	-912	10.088	23.525	404.800	-276.175
10.5	665	-932	993	-942	19.963	24.188	394.713	-299.700
11	713	-953	1005	-949	20.825	24.425	374.750	-323.888
11.5	627	-876	1010	-946	18.788	24.450	353.925	-348.313
12	525	-760	1040	-973	16.063	25.163	335.138	-372.763
12.5	359	-605	1130	-1067	12.050	27.463	319.075	-397.925
13	309	-546	1059	-989	10.688	25.600	307.025	-425.388
13.5	348	-609	988	-959	11.963	24.338	296.338	-450.988
14	318	-588	1007	-953	11.325	24.500	284.375	-475.325
14.5	281	-551	908	-856	10.400	22.050	273.050	-499.825
15	245	-507	795	-744	9.400	19.238	262.650	-521.875
15.5	239	-497	723	-649	9.200	17.150	253.250	-541.113
16	178	-463	671	-575	8.013	15.575	244.050	-558.263
16.5	110	-326	516	-480	5.450	12.450	236.038	-573.838
17	-108	-117	438	-398	0.113	10.450	230.588	-586.288
17.5	-304	37	421	-367	-4.263	9.850	230.475	-596.738
18	-462	227	392	-355	-8.613	9.338	234.738	-606.588
18.5	-653	408	366	-313	-13.263	8.488	243.350	-615.925
19	-918	645	323	-206	-19.538	6.613	256.613	-624.413
19.5	-1005	770	34	-36	-22.188	0.875	276.150	-631.025
20	-901	630	8	16	-19.138	-0.100	298.338	-631.900
20.5	-728	488	-38	73	-15.200	-1.388	317.475	-631.800
21	-560	329	-105	139	-11.113	-3.050	332.675	-630.413
21.5	-341	98	-117	176	-5.488	-3.663	343.788	-627.363
22	-3	-249	-46	93	3.075	-1.738	349.275	-623.700
22.5	179	-446	-296	334	7.813	-7.875	346.200	-621.963
23	232	-498	-101	133	9.125	-2.925	338.388	-614.088
23.5	268	-539	-44	86	10.088	-1.625	329.263	-611.163
24	306	-571	26	-3	10.963	0.363	319.175	-609.538
24.5	318	-551	104	-71	10.863	2.188	308.213	-609.900
25	238	-517	248	-156	9.438	5.050	297.350	-612.088
25.5	422	-660	12	-12	13.525	0.300	287.913	-617.138
26	407	-665	-53	96	13.400	-1.863	274.388	-617.438
26.5	360	-624	-214	280	12.300	-6.175	260.988	-615.575
27	332	-585	-416	488	11.463	-11.300	248.688	-609.400
27.5	306	-543	-631	689	10.613	-16.500	237.225	-598.100
28	251	-519	-763	842	9.625	-20.063	226.613	-581.600
28.5	473	-704	-936	979	14.713	-23.938	216.988	-561.538
29	444	-683	-1019	1078	14.088	-26.213	202.275	-537.600
29.5	431	-655	-912	1005	13.575	-23.963	188.188	-511.388
30	420	-680	-812	863	13.750	-20.938	174.613	-487.425
30.5	454	-679	-721	798	14.163	-18.988	160.863	-466.488
31	411	-678	-754	825	13.613	-19.738	146.700	-447.500
31.5	352	-600	-1133	1176	11.900	-28.863	133.088	-427.763
32	243	-501	-1151	1199	9.300	-29.375	121.188	-398.900
32.5	188	-430	-1172	1224	7.725	-29.950	111.888	-369.525
33	109	-364	-1170	1239	5.913	-30.113	104.163	-339.575
33.5	33	-275	-1193	1227	3.850	-30.250	98.250	-309.463
34	-104	-100	-1191	1273	-0.050	-30.800	94.400	-279.213
34.5	60	-296	-1451	1506	4.450	-36.963	94.450	-248.413
35	55	-327	-1434	1496	4.775	-36.625	90.000	-211.450
35.5	110	-362	-1341	1388	5.900	-34.113	85.225	-174.825
36	114	-363	-1103	1153	5.963	-28.200	79.325	-140.713
36.5	14	-259	-724	790	3.413	-18.925	73.963	-112.513
37	-32	-209	-499	594	2.213	-13.663	69.950	-93.588
37.5	403	-690	-937	945	13.663	-23.525	67.738	-79.925
38	516	-750	-848	903	15.825	-21.888	54.075	-56.400
38.5	433	-699	-564	631	14.150	-14.938	38.250	-34.513
39	379	-633	-440	501	12.650	-11.763	24.100	-19.575
39.5	340	-576	-272	353	11.450	-7.813	11.450	-7.813
Reference Point (40 m)							0.000	0.000

C305-IM04020

Serial number probe: 1032604

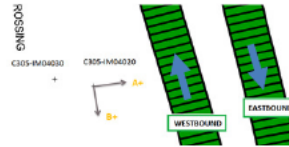


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Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	1158	-1059	-237	-58	27.713	-2.238	586.900	-304.738
1	930	-819	-353	100	21.863	-5.663	559.188	-302.500
1.5	681	-577	-189	-119	15.725	-0.625	537.325	-296.838
2	520	-431	-118	-163	11.888	0.563	521.600	-296.213
2.5	464	-351	-300	41	10.188	-4.263	509.713	-296.775
3	420	-339	-428	180	9.488	-7.600	499.525	-292.513
3.5	357	-246	-472	213	7.538	-8.563	490.038	-284.913
4	326	-240	-527	251	7.075	-9.725	482.500	-278.350
4.5	152	-38	-459	198	2.375	-8.213	475.425	-266.625
5	184	-87	-381	121	3.988	-6.275	473.050	-258.413
5.5	187	-79	-330	83	3.325	-5.163	469.663	-252.138
6	137	-43	-289	32	2.250	-4.013	466.338	-246.975
6.5	117	18	-224	-67	1.238	-1.963	464.088	-242.963
7	153	-68	-190	-100	2.763	-1.125	462.850	-241.000
7.5	349	-241	-335	81	7.375	-5.200	460.088	-239.875
8	336	-230	-138	-127	7.075	-0.138	452.713	-234.675
8.5	381	-289	124	-376	8.375	6.250	445.638	-234.538
9	464	-362	390	-648	10.325	12.975	437.263	-240.788
9.5	445	-337	564	-832	9.775	17.450	426.938	-253.763
10	460	-364	827	-1078	10.900	23.813	417.163	-271.213
10.5	859	-761	830	-1101	20.250	24.138	406.863	-295.025
11	892	-775	853	-1112	20.838	24.563	386.613	-319.163
11.5	813	-720	848	-1109	19.163	24.463	365.775	-343.725
12	708	-596	872	-1129	16.300	25.013	346.613	-368.188
12.5	534	-440	974	-1223	12.175	27.463	330.313	-393.200
13	486	-392	890	-1157	10.975	25.588	318.138	-420.663
13.5	536	-429	825	-1108	12.063	24.163	307.163	-448.250
14	493	-410	837	-1103	11.288	24.250	295.100	-470.413
14.5	478	-370	756	-1025	10.600	22.263	283.813	-494.663
15	440	-355	644	-909	9.938	19.413	273.213	-516.925
15.5	428	-324	559	-822	9.400	17.263	263.275	-536.338
16	369	-285	511	-746	8.175	15.713	253.875	-553.600
16.5	285	-173	353	-642	5.725	12.438	245.700	-569.313
17	81	42	297	-563	0.488	10.750	239.975	-581.750
17.5	-110	206	265	-526	-3.950	9.888	239.488	-592.500
18	-277	378	237	-511	-8.188	9.350	243.438	-602.388
18.5	-475	571	202	-471	-13.075	8.413	251.625	-611.738
19	-725	815	159	-382	-19.250	6.513	264.700	-620.150
19.5	-836	943	-119	-209	-22.238	1.125	283.950	-626.663
20	-715	810	-147	-143	-19.063	-0.050	306.188	-627.788
20.5	-553	651	-200	-98	-15.050	-1.275	325.250	-627.738
21	-389	483	-257	-34	-10.900	-2.788	340.300	-626.463
21.5	-158	258	-278	-2	-5.200	-3.450	351.200	-623.675
22	174	-76	-208	-67	3.125	-1.763	356.400	-620.225
22.5	373	-280	-460	172	8.163	-7.900	353.275	-618.463
23	421	-324	-254	-27	9.313	-2.838	345.113	-610.563
23.5	462	-357	-207	-83	10.238	-1.550	335.800	-607.725
24	502	-414	-124	-158	11.450	0.425	325.563	-606.175
24.5	490	-383	-58	-234	10.913	2.200	314.113	-606.600
25	425	-344	89	-311	9.613	5.000	303.200	-608.800
25.5	594	-484	-144	-179	13.475	0.438	293.588	-613.800
26	585	-496	-225	-70	13.513	-1.950	280.113	-614.238
26.5	552	-449	-375	127	12.513	-6.275	266.600	-612.288
27	514	-425	-584	322	11.738	-11.325	254.088	-606.013
27.5	494	-377	-792	523	10.888	-16.438	242.350	-594.688
28	428	-344	-919	668	9.650	-19.838	231.463	-578.250
28.5	649	-542	-1088	814	14.888	-23.775	221.813	-558.413
29	619	-521	-1174	909	14.250	-26.038	206.925	-534.638
29.5	604	-499	-1076	828	13.788	-23.800	192.675	-508.600
30	602	-506	-954	689	13.850	-20.538	178.888	-484.800
30.5	629	-524	-876	619	14.413	-18.688	165.038	-464.263
31	607	-501	-906	661	13.850	-19.588	150.625	-445.575
31.5	520	-438	-1279	1003	11.975	-28.525	136.775	-425.988
32	423	-337	-1302	1036	9.500	-29.225	124.800	-397.463
32.5	360	-256	-1332	1062	7.700	-29.925	115.300	-368.238
33	284	-200	-1328	1065	6.050	-29.913	107.600	-338.313
33.5	227	-111	-1337	1072	4.225	-30.113	101.550	-308.400
34	63	54	-1346	1105	0.113	-30.638	97.325	-278.288
34.5	237	-136	-1624	1353	4.663	-37.213	97.213	-247.650
35	249	-164	-1598	1336	5.163	-36.675	92.550	-210.438
35.5	298	-198	-1499	1210	6.200	-33.863	87.388	-173.763
36	294	-199	-1260	988	6.163	-28.100	81.188	-139.900
36.5	197	-90	-887	611	3.588	-18.725	75.025	-111.800
37	150	-48	-867	437	2.475	-13.800	71.438	-93.075
37.5	593	-511	-1092	788	13.800	-23.500	68.963	-79.275
38	698	-594	-1005	739	16.150	-21.800	55.163	-55.775
38.5	619	-523	-727	463	14.275	-14.875	39.013	-33.975
39	572	-473	-587	323	13.063	-11.375	24.738	-19.100
39.5	515	-419	-437	181	11.675	-7.725	11.675	-7.725
Reference Point (40 m)							0.000	0.000

C305-IM04020

Serial number probe: 1035333

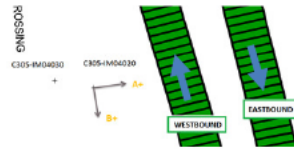


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Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	984	-1204	-90	103	27.350	-2.413	573.725	-305.725
1	771	-963	-205	260	21.675	-5.813	546.375	-303.313
1.5	519	-732	-25	65	15.638	-1.125	524.700	-297.500
2	370	-587	50	-19	11.963	0.863	509.063	-296.375
2.5	311	-500	-135	173	10.138	-3.850	497.100	-297.238
3	249	-473	-282	344	9.025	-7.825	486.963	-293.388
3.5	202	-391	-332	368	7.413	-8.750	477.938	-285.563
4	150	-379	-370	442	6.613	-10.150	470.525	-278.813
4.5	3	-181	-290	365	2.300	-8.188	463.913	-266.663
5	24	-235	-210	267	3.238	-5.963	461.613	-258.475
5.5	32	-215	-186	235	3.088	-5.263	458.375	-252.513
6	-25	-174	-137	197	1.863	-4.175	455.288	-247.250
6.5	-41	-130	-66	101	1.113	-2.088	453.425	-243.075
7	-14	-224	-15	62	2.625	-0.963	452.313	-240.988
7.5	197	-393	-181	234	7.375	-5.188	449.688	-240.025
8	172	-379	-11	28	6.888	-0.488	442.313	-234.838
8.5	228	-436	265	-207	8.300	5.900	435.425	-234.350
9	306	-515	564	-474	10.263	12.975	427.125	-240.250
9.5	284	-486	727	-668	9.625	17.438	416.863	-253.225
10	312	-515	985	-905	10.338	23.625	407.238	-270.663
10.5	702	-901	983	-930	20.038	23.913	396.900	-294.288
11	738	-918	1007	-963	20.700	24.625	376.863	-318.200
11.5	657	-876	1005	-955	19.163	24.500	356.163	-342.825
12	537	-741	1007	-971	15.975	24.725	337.000	-367.325
12.5	389	-572	1119	-1054	12.013	27.163	321.025	-392.050
13	340	-539	1069	-989	10.988	25.725	309.013	-419.213
13.5	380	-570	988	-935	11.875	24.038	298.025	-444.938
14	341	-546	1005	-947	11.088	24.400	286.150	-468.975
14.5	324	-509	905	-860	10.413	22.063	275.063	-493.375
15	291	-508	795	-752	9.988	19.338	264.650	-515.438
15.5	266	-467	737	-676	9.163	17.663	254.663	-534.775
16	210	-444	664	-581	8.175	15.563	245.500	-552.438
16.5	125	-314	509	-472	5.488	12.263	237.325	-568.000
17	-74	-96	471	-416	0.275	11.088	231.838	-580.263
17.5	-257	51	426	-379	-3.850	10.063	231.563	-591.350
18	-437	221	404	-345	-8.225	9.363	235.413	-601.413
18.5	-624	420	373	-312	-13.050	8.563	243.638	-610.775
19	-885	662	319	-213	-19.338	6.650	256.688	-619.338
19.5	-997	798	39	-42	-22.438	1.013	276.025	-625.988
20	-870	663	17	8	-19.163	0.113	298.463	-627.000
20.5	-705	500	-30	53	-15.063	-1.038	317.625	-627.113
21	-536	335	-94	121	-10.888	-2.688	332.688	-626.075
21.5	-318	119	-117	135	-5.463	-3.150	343.575	-623.388
22	11	-206	-37	95	2.713	-1.650	349.038	-620.238
22.5	220	-434	-297	330	8.175	-7.838	346.325	-618.588
23	272	-475	-85	131	9.338	-2.700	338.150	-610.750
23.5	313	-503	-44	78	10.200	-1.525	328.813	-608.050
24	342	-566	35	-5	11.350	0.500	318.613	-606.525
24.5	343	-536	113	-75	10.988	2.350	307.263	-607.025
25	276	-483	245	-147	9.488	4.900	296.275	-609.375
25.5	431	-641	20	-13	13.400	0.413	286.788	-614.275
26	418	-644	-68	88	13.275	-1.950	273.388	-614.688
26.5	401	-599	-223	278	12.500	-6.263	260.113	-612.738
27	352	-561	-434	490	11.413	-11.550	247.613	-606.475
27.5	322	-532	-630	675	10.675	-16.313	236.200	-594.925
28	273	-476	-758	844	9.363	-20.025	225.525	-578.613
28.5	502	-686	-926	967	14.850	-23.663	216.163	-558.588
29	461	-668	-1012	1073	14.113	-26.063	201.313	-534.925
29.5	445	-641	-924	975	13.575	-23.738	187.200	-508.863
30	433	-640	-797	854	13.413	-20.638	173.625	-485.125
30.5	475	-669	-718	784	14.300	-18.775	160.213	-464.488
31	431	-646	-738	844	13.463	-19.775	145.913	-445.713
31.5	374	-586	-1122	1170	12.000	-28.650	132.450	-425.938
32	262	-486	-1151	1187	9.350	-29.225	120.450	-397.288
32.5	191	-388	-1165	1224	7.238	-29.863	111.100	-368.063
33	116	-340	-1168	1228	5.700	-29.950	103.863	-338.200
33.5	59	-258	-1172	1239	3.963	-30.138	98.163	-308.250
34	-109	-80	-1200	1268	-0.363	-30.850	94.200	-278.113
34.5	86	-267	-1460	1500	4.413	-37.000	94.563	-247.263
35	92	-294	-1432	1491	4.825	-36.538	90.150	-210.263
35.5	132	-343	-1310	1388	5.938	-33.725	85.325	-173.725
36	129	-338	-1096	1160	5.838	-28.200	79.388	-140.000
36.5	33	-232	-703	779	3.313	-18.525	73.550	-111.800
37	-8	-197	-513	604	2.363	-13.963	70.238	-93.275
37.5	430	-657	-943	952	13.588	-23.688	67.875	-79.313
38	532	-729	-847	881	15.763	-21.600	54.288	-55.625
38.5	461	-669	-552	638	14.125	-14.875	38.525	-34.025
39	415	-614	-429	483	12.863	-11.400	24.400	-19.150
39.5	367	-556	-277	343	11.538	-7.750	11.538	-7.750
Reference Point (40 m)							0.000	0.000

C305-IM04020

Serial number probe: 1032604

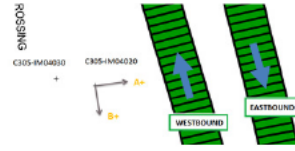


02/08/2012 13:00

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	1178	-1037	-249	-65	27.688	-2.300	587.450	-299.013
1	950	-798	-357	92	21.850	-5.613	559.763	-296.713
1.5	706	-554	-173	-105	15.750	-0.850	537.913	-291.100
2	546	-411	-119	-185	11.963	0.825	522.163	-290.250
2.5	486	-328	-288	13	10.175	-3.763	510.200	-291.075
3	442	-311	-446	182	9.413	-7.850	500.025	-287.313
3.5	378	-223	-482	217	7.513	-8.738	490.613	-279.463
4	347	-217	-530	269	7.050	-9.988	483.100	-270.725
4.5	176	-6	-459	192	2.275	-8.138	476.050	-260.738
5	204	-66	-372	111	3.375	-6.038	473.775	-252.600
5.5	208	-55	-342	67	3.288	-5.113	470.400	-246.563
6	161	-9	-288	25	2.125	-3.913	467.113	-241.450
6.5	142	41	-235	-68	1.263	-2.088	464.988	-237.538
7	179	-45	-177	-108	2.800	-0.863	463.725	-235.450
7.5	380	-220	-344	68	7.500	-5.150	460.925	-234.588
8	364	-209	-163	-134	7.163	-0.363	453.425	-229.438
8.5	406	-266	111	-375	8.400	6.075	446.263	-229.075
9	493	-338	394	-641	10.388	12.938	437.863	-235.150
9.5	469	-310	560	-828	9.738	17.350	427.475	-248.088
10	486	-338	827	-1077	10.900	23.800	417.798	-265.438
10.5	887	-737	826	-1099	20.300	24.063	407.438	-289.238
11	917	-751	856	-1122	20.850	24.725	387.138	-313.300
11.5	839	-699	847	-1117	19.225	24.550	366.288	-338.025
12	731	-575	863	-1134	16.325	24.963	347.063	-362.575
12.5	562	-418	972	-1228	12.250	27.500	330.738	-387.538
13	516	-365	901	-1156	11.013	25.713	318.488	-415.038
13.5	558	-408	824	-1101	12.075	24.063	307.475	-440.750
14	527	-384	843	-1107	11.388	24.375	295.400	-464.813
14.5	508	-348	755	-1025	10.700	22.250	284.013	-489.188
15	470	-332	646	-912	10.025	19.475	273.313	-511.438
15.5	452	-301	570	-833	9.413	17.538	263.288	-530.913
16	400	-264	501	-751	8.300	15.650	253.875	-548.450
16.5	305	-148	357	-643	5.663	12.500	245.575	-564.100
17	106	65	303	-571	0.513	10.925	239.913	-576.600
17.5	-86	230	274	-538	-3.950	10.150	239.400	-587.525
18	-252	400	251	-514	-8.150	9.563	243.350	-597.675
18.5	-449	593	210	-476	-13.025	8.575	251.500	-607.238
19	-701	838	155	-364	-19.238	6.488	264.525	-615.813
19.5	-812	968	-115	-210	-22.250	1.188	283.763	-622.300
20	-689	833	-140	-149	-19.025	0.113	306.013	-623.488
20.5	-530	673	-191	-105	-15.038	-1.075	325.038	-623.600
21	-358	507	-245	-45	-10.813	-2.500	340.075	-622.525
21.5	-134	280	-265	-21	-5.175	-3.050	350.888	-620.025
22	203	-47	-199	-65	3.125	-1.675	356.063	-616.975
22.5	396	-259	-452	169	8.188	-7.763	352.938	-615.300
23	445	-302	-253	-29	9.338	-2.800	344.750	-607.538
23.5	489	-334	-197	-90	10.288	-1.338	335.413	-604.738
24	522	-390	-124	-168	11.400	0.550	325.125	-603.400
24.5	522	-361	-45	-243	11.038	2.475	313.725	-603.950
25	450	-321	89	-312	9.638	5.013	302.688	-606.425
25.5	623	-462	-139	-184	13.563	0.563	293.050	-611.438
26	608	-473	-223	-80	13.513	-1.788	279.488	-612.000
26.5	581	-422	-381	111	12.538	-6.150	265.975	-610.213
27	535	-400	-581	312	11.888	-11.163	253.438	-604.063
27.5	516	-357	-784	518	10.913	-16.275	241.750	-592.900
28	452	-318	-919	671	9.625	-19.875	230.838	-576.625
28.5	672	-518	-1082	807	14.875	-23.613	221.213	-556.750
29	642	-499	-1167	904	14.263	-25.888	206.338	-533.138
29.5	628	-477	-1077	822	13.813	-23.738	192.075	-507.250
30	624	-480	-947	685	13.800	-20.400	178.263	-483.513
30.5	656	-505	-877	606	14.513	-18.538	164.463	-463.113
31	624	-477	-900	673	13.763	-19.663	149.950	-444.575
31.5	546	-411	-1280	1004	11.963	-28.550	136.188	-424.913
32	444	-314	-1301	1035	9.475	-29.200	124.225	-396.363
32.5	385	-228	-1322	1063	7.663	-29.813	114.750	-367.163
33	305	-174	-1331	1064	5.988	-29.938	107.088	-337.350
33.5	246	-87	-1336	1071	4.163	-30.088	101.100	-307.413
34	96	76	-1353	1098	0.125	-30.638	96.938	-277.325
34.5	259	-108	-1619	1348	4.588	-37.088	96.813	-246.688
35	271	-135	-1595	1335	5.075	-36.625	92.225	-209.600
35.5	322	-167	-1482	1221	6.113	-33.788	87.150	-172.975
36	313	-176	-1247	986	6.113	-27.913	81.038	-139.188
36.5	217	-66	-873	607	3.538	-18.500	74.925	-111.275
37	177	-20	-671	436	2.463	-13.838	71.388	-92.775
37.5	622	-487	-1096	794	13.863	-23.625	68.925	-78.938
38	718	-572	-1011	729	16.125	-21.750	55.063	-55.313
38.5	638	-497	-711	460	14.188	-14.638	38.938	-33.563
39	596	-448	-581	313	13.050	-11.175	24.750	-18.925
39.5	540	-396	-441	179	11.700	-7.750	11.700	-7.750
Reference Point (40 m)							0.000	0.000

C305-IM04020

Serial number probe: 1035333

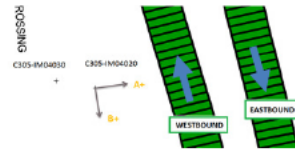


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Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	1003	-1198	-69	118	27.513	-2.338	572.925	-309.438
1	782	-956	-187	267	21.725	-5.675	545.413	-307.100
1.5	516	-712	-1	59	15.350	-0.750	523.688	-301.425
2	364	-577	37	-24	11.763	0.763	508.338	-300.675
2.5	310	-498	-139	204	10.100	-4.288	496.575	-301.438
3	268	-479	-267	347	9.338	-7.675	486.475	-297.150
3.5	207	-396	-318	381	7.538	-8.738	477.138	-289.475
4	163	-394	-368	433	6.963	-10.013	469.600	-280.738
4.5	-7	-177	-319	362	2.125	-8.513	462.638	-270.725
5	20	-226	-225	283	3.075	-6.350	460.513	-262.213
5.5	27	-222	-180	242	3.113	-5.275	457.438	-255.863
6	-12	-179	-134	190	2.088	-4.050	454.325	-250.588
6.5	-45	-132	-81	97	1.088	-2.225	452.238	-246.538
7	-6	-200	-15	72	2.425	-1.088	451.150	-244.313
7.5	194	-389	-173	238	7.288	-5.138	448.725	-243.225
8	176	-374	3	40	6.875	-0.463	441.438	-238.088
8.5	225	-424	281	-203	8.113	6.050	434.563	-237.625
9	303	-512	533	-478	10.188	12.638	426.450	-243.675
9.5	289	-475	716	-652	9.550	17.100	416.263	-256.313
10	308	-496	988	-918	10.050	23.825	406.713	-273.413
10.5	701	-913	999	-925	20.175	24.050	396.663	-297.238
11	727	-921	1015	-958	20.600	24.663	376.488	-321.288
11.5	661	-869	993	-937	19.125	24.125	355.888	-345.950
12	547	-745	1018	-957	16.150	24.688	336.763	-370.075
12.5	377	-587	1116	-1054	12.050	27.125	320.613	-394.763
13	329	-531	1050	-978	10.750	25.350	308.563	-421.888
13.5	382	-572	970	-923	11.925	23.663	297.813	-447.238
14	344	-551	995	-942	11.188	24.213	285.888	-470.900
14.5	328	-516	923	-861	10.550	22.900	274.700	-495.113
15	298	-509	806	-737	10.088	19.288	264.150	-517.413
15.5	276	-471	727	-658	9.338	17.313	254.063	-536.700
16	225	-431	673	-574	8.200	15.588	244.725	-554.013
16.5	128	-309	519	-485	5.463	12.550	236.525	-569.600
17	-74	-99	455	-406	0.913	10.763	231.063	-582.150
17.5	-275	54	433	-367	-4.113	10.000	230.750	-592.913
18	-429	236	418	-343	-8.313	9.513	234.863	-602.913
18.5	-640	423	365	-305	-13.288	8.375	243.175	-612.425
19	-891	675	316	-199	-19.575	6.438	256.463	-620.800
19.5	-992	801	30	-45	-22.413	0.938	276.038	-627.238
20	-868	659	15	24	-19.088	-0.113	298.450	-628.175
20.5	-704	505	-29	69	-15.113	-1.225	317.538	-628.063
21	-535	340	-86	117	-10.938	-2.538	332.650	-626.838
21.5	-319	106	-102	135	-5.313	-2.963	343.588	-624.300
22	24	-209	-44	100	2.913	-1.800	348.900	-621.338
22.5	221	-433	-292	337	8.175	-7.863	345.988	-619.538
23	270	-473	-96	128	9.288	-2.800	337.813	-611.675
23.5	305	-504	-33	90	10.113	-1.538	328.525	-608.875
24	351	-560	22	4	11.388	0.225	318.413	-607.338
24.5	330	-534	106	-66	10.800	2.150	307.025	-607.583
25	266	-490	262	-148	9.450	5.125	296.225	-609.713
25.5	441	-638	18	-23	13.488	0.513	286.775	-614.838
26	423	-633	-53	98	13.200	-1.888	273.288	-615.350
26.5	390	-588	-226	283	12.225	-6.363	260.088	-613.463
27	350	-561	-412	482	11.388	-11.175	247.863	-607.100
27.5	324	-531	-623	682	10.688	-16.313	236.475	-595.925
28	274	-480	-750	828	9.425	-19.725	225.788	-579.613
28.5	478	-680	-934	984	14.475	-23.975	216.363	-559.888
29	458	-655	-1006	1072	13.913	-25.975	201.888	-535.913
29.5	441	-641	-921	978	13.525	-23.738	187.975	-509.938
30	443	-640	-784	863	13.538	-20.588	174.450	-486.200
30.5	467	-665	-722	786	14.150	-18.850	160.913	-465.613
31	453	-644	-749	821	13.713	-19.625	146.763	-446.763
31.5	364	-580	-1116	1174	11.800	-28.625	133.050	-427.138
32	253	-483	-1142	1213	9.200	-29.438	121.250	-398.513
32.5	198	-398	-1177	1222	7.450	-29.988	112.050	-369.075
33	117	-333	-1181	1248	5.625	-30.363	104.600	-339.088
33.5	59	-252	-1173	1237	3.888	-30.125	98.975	-308.725
34	-88	-87	-1182	1260	-0.013	-30.525	95.088	-278.600
34.5	71	-287	-1461	1517	4.475	-37.225	95.100	-248.075
35	93	-296	-1435	1513	4.863	-36.850	90.625	-210.850
35.5	148	-333	-1323	1381	6.013	-33.800	85.763	-174.000
36	147	-341	-1100	1164	6.100	-28.300	79.750	-140.200
36.5	32	-243	-732	781	3.438	-18.913	73.650	-111.900
37	-5	-186	-509	592	2.263	-13.763	70.213	-92.988
37.5	441	-649	-924	955	13.625	-23.488	67.950	-79.225
38	533	-735	-847	888	15.850	-21.688	54.325	-55.738
38.5	452	-667	-563	612	13.988	-14.688	38.475	-34.050
39	418	-618	-431	489	12.950	-11.500	24.488	-19.363
39.5	361	-562	-285	344	11.538	-7.863	11.538	-7.863
Reference Point (40 m)							0.000	0.000

C305-IM04020

Serial number probe: 1032604

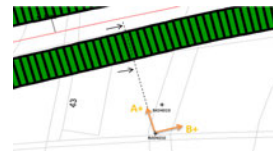


02/08/2012 13:52

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	1181	-1035	-236	-52	27.700	-2.900	589.200	-302.213
1	959	-800	-347	97	21.988	-5.550	561.500	-299.913
1.5	707	-551	-156	-106	15.725	-0.625	539.513	-294.363
2	548	-410	-111	-178	11.975	0.838	523.788	-293.738
2.5	490	-327	-294	38	10.213	-4.150	511.813	-294.575
3	444	-310	-430	176	9.425	-7.575	501.600	-290.425
3.5	384	-223	-469	223	7.588	-8.650	492.175	-282.850
4	353	-218	-524	270	7.138	-9.925	484.588	-274.200
4.5	181	-3	-470	194	2.900	-8.300	477.450	-264.275
5	209	-65	-381	121	3.425	-6.275	475.150	-255.975
5.5	211	-53	-339	79	3.900	-5.225	471.725	-249.700
6	165	-6	-292	32	2.138	-4.050	468.425	-244.475
6.5	144	41	-235	-61	1.288	-2.175	466.288	-240.425
7	177	-41	-180	-97	2.725	-1.038	465.000	-238.250
7.5	374	-216	-337	74	7.375	-5.138	462.275	-237.213
8	364	-209	-163	-133	7.163	-0.375	454.900	-232.075
8.5	404	-267	120	-378	8.888	6.225	447.738	-231.700
9	491	-337	379	-640	10.350	12.738	439.350	-237.925
9.5	470	-311	566	-822	9.763	17.350	429.000	-250.663
10	489	-339	830	-1077	10.350	23.838	419.238	-268.013
10.5	887	-739	831	-1102	20.325	24.163	408.888	-291.850
11	917	-750	858	-1120	20.838	24.725	388.563	-316.013
11.5	839	-701	846	-1109	19.250	24.438	367.725	-340.738
12	734	-575	871	-1130	16.363	25.013	348.475	-365.175
12.5	561	-417	962	-1223	12.225	27.313	332.113	-390.188
13	515	-367	897	-1151	11.025	25.600	319.888	-417.500
13.5	563	-408	822	-1096	12.138	23.975	308.863	-443.100
14	526	-386	841	-1110	11.400	24.388	296.725	-467.075
14.5	508	-347	762	-1023	10.688	22.313	285.325	-491.463
15	472	-331	644	-910	10.038	19.425	274.638	-513.775
15.5	458	-299	565	-827	9.463	17.400	264.600	-533.200
16	398	-264	512	-749	8.275	15.763	255.138	-550.600
16.5	311	-146	356	-647	5.713	12.538	246.863	-566.363
17	108	66	305	-567	0.525	10.900	241.150	-578.900
17.5	-84	228	273	-532	-3.900	10.063	240.625	-589.800
18	-250	402	253	-514	-8.150	9.588	244.525	-599.863
18.5	-448	592	213	-468	-13.000	8.525	252.675	-609.450
19	-701	840	156	-390	-19.263	6.450	265.675	-617.975
19.5	-808	966	-120	-211	-22.175	1.138	284.938	-624.425
20	-691	833	-139	-147	-19.050	0.100	307.113	-625.563
20.5	-526	673	-185	-97	-14.988	-1.100	326.163	-625.663
21	-358	506	-246	-42	-10.800	-2.550	341.150	-624.563
21.5	-136	280	-271	-25	-5.200	-3.075	351.950	-622.013
22	203	-48	-202	-65	3.138	-1.713	357.150	-618.938
22.5	397	-256	-456	176	8.163	-7.900	354.013	-617.225
23	447	-298	-256	-28	9.313	-2.850	345.850	-609.325
23.5	490	-334	-200	-78	10.300	-1.525	336.538	-606.475
24	529	-389	-127	-161	11.475	0.425	326.238	-604.950
24.5	521	-361	-52	-229	11.025	2.213	314.763	-605.375
25	456	-320	95	-308	9.700	5.038	303.738	-607.588
25.5	625	-461	-137	-182	13.575	0.563	294.038	-612.625
26	616	-473	-215	-67	13.613	-1.850	280.463	-613.188
26.5	580	-422	-382	125	12.525	-6.338	266.850	-611.338
27	539	-398	-575	318	11.713	-11.163	254.325	-605.000
27.5	516	-356	-775	519	10.900	-16.175	242.613	-593.838
28	457	-321	-914	670	9.725	-19.800	231.713	-577.663
28.5	673	-517	-1082	813	14.875	-23.688	221.988	-557.863
29	643	-495	-1171	907	14.225	-25.975	207.113	-534.175
29.5	633	-484	-1079	813	13.963	-23.650	192.888	-508.200
30	630	-478	-951	690	13.850	-20.513	178.925	-484.550
30.5	656	-502	-873	622	14.475	-18.688	165.075	-464.038
31	634	-479	-901	656	13.913	-19.463	150.600	-445.350
31.5	547	-410	-1280	1004	11.963	-28.550	136.688	-425.888
32	445	-309	-1302	1048	9.425	-29.375	124.725	-397.338
32.5	387	-228	-1326	1066	7.688	-29.900	115.300	-367.963
33	308	-170	-1329	1072	5.975	-30.013	107.613	-338.063
33.5	248	-84	-1337	1077	4.150	-30.175	101.638	-308.050
34	89	75	-1347	1101	0.175	-30.600	97.488	-277.875
34.5	258	-113	-1623	1348	4.638	-37.138	97.313	-247.275
35	277	-128	-1591	1340	5.063	-36.638	92.675	-210.138
35.5	324	-165	-1484	1214	6.113	-33.725	87.613	-173.500
36	319	-172	-1266	992	6.138	-28.225	81.500	-139.775
36.5	223	-68	-887	610	3.638	-18.713	75.963	-111.550
37	179	-21	-662	435	2.500	-13.713	71.725	-92.838
37.5	624	-485	-1088	791	13.863	-23.488	69.225	-79.125
38	723	-571	-1008	735	16.175	-21.788	55.963	-55.638
38.5	645	-503	-728	458	14.350	-14.825	39.188	-33.850
39	599	-445	-582	320	13.050	-11.275	24.838	-19.025
39.5	547	-396	-441	179	11.788	-7.750	11.788	-7.750
Reference Point (40 m)							0.000	0.000

C305-IM04030

Serial number probe: 1035333

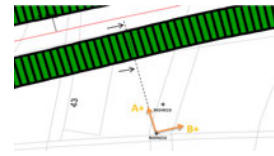


31/07/2012 11:22

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-1588	1352	969	-916	-36.750	23.563	179.438	-840.038
1	-1574	1374	936	-912	-36.850	23.100	216.188	-863.600
1.5	-1428	1183	916	-879	-32.638	22.438	253.038	-886.700
2	-1146	921	863	-840	-25.838	21.288	285.675	-909.138
2.5	-985	729	815	-790	-21.425	20.063	311.513	-930.425
3	-789	557	807	-749	-16.825	19.450	332.938	-950.488
3.5	-648	387	764	-717	-12.938	18.513	349.763	-969.938
4	-623	385	619	-568	-12.600	14.838	362.700	-988.450
4.5	-610	410	411	-373	-12.750	9.800	375.300	-1003.288
5	-531	316	357	-305	-10.588	8.275	388.050	-1013.088
5.5	-628	372	463	-432	-12.500	11.188	398.638	-1021.363
6	-590	335	453	-415	-11.563	10.850	411.138	-1032.550
6.5	-590	365	497	-468	-11.938	12.063	422.700	-1043.400
7	-592	350	258	-186	-11.775	5.550	434.638	-1055.463
7.5	-766	512	69	-73	-15.975	1.775	446.413	-1061.013
8	-806	597	68	-46	-17.538	1.425	462.388	-1062.788
8.5	-768	521	-31	29	-16.113	-0.750	479.925	-1064.213
9	-658	452	-352	397	-13.875	-9.363	496.038	-1063.463
9.5	-716	501	-549	580	-15.213	-14.113	509.913	-1054.100
10	-814	590	-615	632	-17.550	-15.588	525.125	-1039.988
10.5	-830	563	-762	796	-17.413	-19.475	542.675	-1024.400
11	-680	476	-884	907	-14.450	-22.388	560.088	-1004.925
11.5	-491	251	-871	931	-9.275	-22.525	574.538	-982.538
12	-189	-17	-717	774	-2.150	-18.638	583.813	-960.013
12.5	-28	-213	-530	575	2.313	-13.813	585.963	-941.375
13	14	-255	-457	492	3.363	-11.863	583.650	-927.563
13.5	-36	-179	-560	584	1.788	-14.300	580.288	-915.700
14	-47	-176	-570	580	1.613	-14.375	578.500	-901.400
14.5	-16	-209	-568	603	2.413	-14.638	576.888	-887.025
15	63	-297	-607	635	4.500	-15.525	574.475	-872.388
15.5	111	-333	-651	671	5.550	-16.525	569.975	-856.863
16	-22	-204	-748	784	2.275	-19.150	564.425	-840.338
16.5	-160	-57	-841	861	-1.288	-21.275	562.150	-821.188
17	-151	-69	-812	836	-1.025	-20.600	563.438	-799.913
17.5	-100	-99	-783	815	-0.013	-19.975	564.463	-779.313
18	-36	-213	-771	780	2.213	-19.388	564.475	-759.338
18.5	50	-271	-810	792	4.013	-20.025	562.263	-739.950
19	4	-262	-977	1003	3.325	-24.750	558.250	-719.925
19.5	-58	-120	-1099	1137	0.775	-27.950	554.925	-695.175
20	-16	-243	-942	973	2.838	-23.938	554.150	-667.225
20.5	127	-348	-927	916	5.938	-23.038	551.313	-643.288
21	265	-516	-936	955	9.763	-23.638	545.375	-620.250
21.5	489	-712	-933	959	15.013	-23.650	535.613	-596.613
22	768	-1021	-1004	1014	22.363	-25.225	520.600	-572.963
22.5	854	-1111	-1117	1144	24.563	-28.263	498.238	-547.738
23	849	-1073	-1142	1162	24.025	-28.800	473.675	-519.475
23.5	871	-1118	-1167	1205	24.863	-29.650	449.650	-490.675
24	903	-1139	-1199	1229	25.525	-30.350	424.788	-461.025
24.5	889	-1103	-1243	1256	24.900	-31.238	399.263	-430.675
25	971	-1209	-1278	1289	27.250	-32.088	374.363	-399.438
25.5	1169	-1407	-1295	1322	32.200	-32.713	347.113	-367.350
26	1265	-1488	-1285	1309	34.413	-32.425	314.913	-334.638
26.5	1237	-1476	-1381	1407	33.913	-34.850	280.500	-302.213
27	1239	-1475	-1554	1588	33.925	-39.275	246.588	-267.363
27.5	1241	-1499	-1655	1668	34.250	-41.538	212.663	-228.088
28	1429	-1657	-1671	1710	38.575	-42.263	178.413	-186.550
28.5	1615	-1895	-1888	1894	43.875	-47.275	139.838	-144.288
29	1766	-1974	-1925	1947	46.750	-48.400	95.963	-97.013
29.5	1846	-2091	-1929	1960	49.213	-48.613	49.213	-48.613
30	1878	-2093	-1951	1970	49.638	-49.013	49.638	-49.013
30.5	1737	-2010	-1977	2003	46.838	-49.750	46.838	-49.750
31	1543	-1775	-2128	2148	41.475	-53.450	41.475	-53.450
31.5	1400	-1655	-2271	2288	38.188	-56.988	38.188	-56.988
32	1592	-1851	-2256	2283	43.038	-56.738	43.038	-56.738
32.5	1860	-2087	-2204	2236	49.338	-55.500	49.338	-55.500
33	1953	-2200	-2357	2378	51.913	-59.188	51.913	-59.188
33.5	2058	-2303	-2385	2420	54.513	-60.063	54.513	-60.063
34	2242	-2468	-2378	2403	58.875	-59.763	58.875	-59.763
34.5	2470	-2723	-2415	2450	64.913	-60.813	64.913	-60.813
35	2758	-2999	-2231	2263	71.963	-56.175	71.963	-56.175
35.5	2811	-3075	-2213	2233	73.575	-55.575	73.575	-55.575
36	2589	-2825	-2172	2215	67.675	-54.838	67.675	-54.838
36.5	2654	-2879	-2102	2129	69.163	-52.888	69.163	-52.888
37	2855	-3077	-2044	2068	74.150	-51.400	74.150	-51.400
37.5	3013	-3251	-2093	2101	78.300	-52.425	78.300	-52.425
38	3023	-3256	-2064	2068	78.488	-51.650	78.488	-51.650
38.5	2904	-3149	-2013	2049	75.663	-50.775	75.663	-50.775
39	2735	-2988	-1994	2010	71.538	-50.050	71.538	-50.050
39.5	2715	-2952	-1943	1950	70.838	-48.663	70.838	-48.663
Reference Point (40 m)							0.000	0.000

C305-IM04030

Serial number probe: 1032604

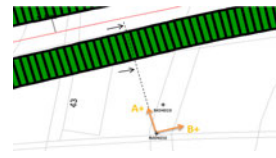


01/08/2012 11:02

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-1414	1530	801	-1094	-36.800	23.688	1425.263	-1919.013
1	-1401	1532	785	-1068	-36.663	23.163	1462.063	-1942.700
1.5	-1247	1355	749	-1038	-32.525	22.338	1498.725	-1965.863
2	-959	1094	709	-994	-25.663	21.288	1531.250	-1988.200
2.5	-802	901	661	-954	-21.288	20.188	1556.913	-2009.488
3	-600	732	639	-920	-16.650	19.488	1578.200	-2029.675
3.5	-451	567	604	-879	-12.725	18.538	1594.850	-2049.163
4	-436	555	450	-730	-12.388	14.750	1607.575	-2067.700
4.5	-438	565	267	-547	-12.538	10.175	1619.963	-2082.450
5	-362	480	194	-475	-10.525	8.363	1632.500	-2092.625
5.5	-432	551	303	-584	-12.288	11.088	1643.025	-2100.988
6	-398	508	301	-586	-11.325	11.088	1655.313	-2112.075
6.5	-403	531	331	-626	-11.675	11.963	1666.638	-2123.163
7	-401	524	95	-357	-11.563	5.650	1678.313	-2135.125
7.5	-582	682	-92	-224	-15.800	1.650	1689.875	-2140.775
8	-620	751	-104	-215	-17.138	1.388	1705.675	-2142.425
8.5	-596	699	-194	-125	-16.188	-0.863	1722.813	-2143.813
9	-484	607	-510	235	-13.638	-9.313	1739.000	-2142.950
9.5	-532	662	-705	410	-14.925	-13.938	1752.638	-2133.638
10	-641	764	-769	476	-17.563	-15.563	1767.563	-2119.700
10.5	-644	740	-923	639	-17.300	-19.525	1785.125	-2104.138
11	-500	632	-1046	755	-14.150	-22.513	1802.425	-2084.613
11.5	-310	407	-1035	755	-8.963	-22.375	1816.575	-2062.100
12	-7	153	-882	597	-2.000	-18.488	1825.538	-2039.725
12.5	159	-49	-697	405	2.600	-13.775	1827.538	-2021.238
13	208	-89	-601	325	3.713	-11.575	1824.938	-2007.463
13.5	143	-21	-713	408	2.050	-14.013	1821.225	-1995.888
14	137	-22	-717	414	1.988	-14.138	1819.175	-1981.875
14.5	176	-53	-734	434	2.863	-14.600	1817.188	-1967.738
15	230	-122	-775	464	4.400	-15.488	1814.325	-1953.138
15.5	288	-166	-806	512	5.675	-16.475	1809.925	-1937.650
16	146	-42	-905	612	2.350	-18.963	1804.250	-1921.175
16.5	26	120	-1007	707	-1.175	-21.425	1801.900	-1902.213
17	40	89	-966	669	-0.613	-20.438	1803.075	-1880.788
17.5	86	64	-944	643	0.275	-19.838	1803.688	-1860.350
18	144	-38	-920	620	2.275	-19.250	1803.413	-1840.513
18.5	235	-102	-952	636	4.213	-19.850	1801.138	-1821.263
19	189	-95	-1133	840	3.550	-24.663	1796.925	-1801.413
19.5	117	40	-1251	970	0.963	-27.763	1793.375	-1776.750
20	177	-79	-1096	800	3.200	-23.700	1792.413	-1748.988
20.5	299	-174	-1070	756	5.913	-22.825	1789.213	-1725.288
21	446	-346	-1091	795	9.900	-23.575	1783.300	-1702.463
21.5	677	-548	-1092	786	15.313	-23.475	1773.400	-1678.888
22	958	-843	-1157	858	22.513	-25.188	1758.088	-1655.413
22.5	1036	-942	-1281	984	24.725	-28.313	1735.575	-1630.225
23	1038	-916	-1308	995	24.425	-28.788	1710.850	-1601.913
23.5	1053	-955	-1337	1033	25.100	-29.625	1686.425	-1573.125
24	1074	-960	-1368	1067	25.425	-30.438	1661.325	-1543.500
24.5	1056	-942	-1387	1083	24.975	-30.875	1635.900	-1513.063
25	1151	-1037	-1419	1121	27.350	-31.750	1610.925	-1482.188
25.5	1353	-1240	-1454	1144	32.413	-32.475	1583.575	-1450.438
26	1443	-1335	-1436	1143	34.725	-32.238	1551.163	-1417.963
26.5	1432	-1322	-1549	1251	34.425	-35.000	1516.438	-1385.725
27	1421	-1308	-1719	1414	34.113	-39.163	1482.013	-1350.725
27.5	1428	-1328	-1799	1498	34.450	-41.213	1447.900	-1311.563
28	1610	-1480	-1825	1554	38.625	-42.238	1413.450	-1270.350
28.5	1810	-1720	-2037	1727	44.125	-47.050	1374.825	-1228.113
29	1949	-1821	-2094	1789	47.125	-48.538	1330.700	-1181.063
29.5	2027	-1938	-2098	1803	49.563	-48.763	1283.575	-1132.525
30	2048	-1931	-2101	1798	49.738	-48.738	1234.013	-1083.763
30.5	1917	-1827	-2135	1830	46.800	-49.563	1184.275	-1035.025
31	1715	-1602	-2282	1984	41.463	-53.325	1137.475	-985.463
31.5	1598	-1480	-2426	2129	38.475	-56.938	1096.013	-932.138
32	1779	-1682	-2423	2128	43.263	-56.888	1057.538	-875.200
32.5	2046	-1924	-2360	2064	49.625	-55.300	1014.275	-818.313
33	2125	-2034	-2513	2199	51.988	-58.900	964.650	-763.013
33.5	2251	-2141	-2554	2251	54.900	-60.063	912.663	-704.113
34	2434	-2314	-2519	2240	59.350	-59.488	857.763	-644.050
34.5	2665	-2547	-2573	2278	65.150	-60.638	798.413	-584.563
35	2948	-2837	-2399	2107	72.313	-56.325	733.263	-523.925
35.5	2997	-2895	-2361	2058	73.650	-55.238	660.950	-467.600
36	2770	-2654	-2344	2050	67.800	-54.925	587.300	-412.363
36.5	2830	-2722	-2257	1966	69.400	-52.788	519.500	-357.438
37	3035	-2924	-2204	1919	74.488	-51.538	450.100	-304.650
37.5	3202	-3088	-2243	1944	78.625	-52.338	375.613	-253.113
38	3205	-3100	-2211	1905	78.813	-51.450	296.988	-200.775
38.5	3081	-2972	-2182	1882	75.663	-50.800	218.175	-149.325
39	2920	-2812	-2141	1847	71.650	-49.850	142.513	-98.525
39.5	2890	-2779	-2097	1797	70.863	-48.675	70.863	-48.675
Reference Point (40 m)							0.000	0.000

C305-IM04030

Serial number probe: 1035333

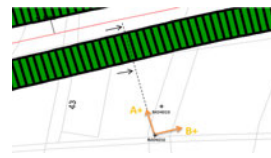


31/07/2012 13:42

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-1602	1343	981	-924	-36.813	23.813	175.113	-839.413
1	-1593	1358	947	-891	-36.888	22.975	211.925	-863.225
1.5	-1440	1175	938	-857	-32.688	22.438	248.813	-886.200
2	-1145	934	886	-827	-25.988	21.413	281.500	-908.638
2.5	-992	718	831	-753	-21.375	19.800	307.488	-930.050
3	-800	567	826	-737	-17.088	19.538	328.863	-949.850
3.5	-639	376	771	-690	-12.688	18.263	345.950	-969.388
4	-642	374	611	-555	-12.700	14.575	358.638	-987.650
4.5	-625	386	433	-386	-12.638	10.238	371.338	-1002.225
5	-560	300	378	-290	-10.750	8.350	383.975	-1012.463
5.5	-619	365	494	-429	-12.300	11.538	394.725	-1020.813
6	-593	329	479	-423	-11.525	11.275	407.025	-1032.350
6.5	-598	363	514	-460	-12.013	12.175	418.550	-1043.625
7	-605	349	262	-196	-11.925	5.725	430.563	-1055.800
7.5	-784	505	80	-53	-16.113	1.663	442.488	-1061.525
8	-805	579	56	-31	-17.300	1.088	458.600	-1063.188
8.5	-792	526	-30	62	-16.475	-1.150	475.900	-1064.275
9	-668	446	-341	417	-13.925	-9.475	492.375	-1063.125
9.5	-726	493	-522	585	-15.238	-13.838	506.300	-1053.650
10	-836	587	-589	630	-17.788	-15.238	521.538	-1039.813
10.5	-839	563	-752	814	-17.525	-19.575	539.325	-1024.575
11	-699	454	-863	934	-14.413	-22.463	556.850	-1005.000
11.5	-503	223	-868	939	-9.075	-22.588	571.263	-982.538
12	-225	-18	-706	766	-2.588	-18.400	580.338	-959.950
12.5	-43	-210	-524	581	2.088	-13.813	582.925	-941.550
13	17	-265	-427	491	3.525	-11.475	580.838	-927.738
13.5	-47	-191	-528	597	1.800	-14.063	577.313	-916.263
14	-60	-195	-551	608	1.688	-14.488	575.513	-902.200
14.5	-23	-217	-571	634	2.425	-15.063	573.825	-887.713
15	32	-298	-597	662	4.125	-15.738	571.400	-872.650
15.5	88	-343	-619	690	5.388	-16.363	567.275	-856.913
16	-56	-213	-742	791	1.963	-19.163	561.888	-840.550
16.5	-166	-54	-816	880	-1.400	-21.200	559.925	-821.388
17	-166	-77	-785	857	-1.113	-20.525	561.325	-800.188
17.5	-115	-103	-745	832	-0.150	-19.713	562.438	-779.663
18	-50	-207	-767	804	1.963	-19.638	562.588	-759.950
18.5	37	-278	-764	838	3.938	-20.025	560.625	-740.313
19	-6	-262	-956	1016	3.200	-24.650	556.688	-720.288
19.5	-82	-135	-1083	1145	0.663	-27.850	553.488	-695.638
20	-21	-259	-924	987	2.975	-23.888	552.825	-667.788
20.5	102	-351	-901	951	5.663	-23.150	549.850	-643.900
21	257	-517	-910	981	9.675	-23.638	544.188	-620.750
21.5	488	-716	-907	971	15.050	-23.475	534.513	-597.113
22	752	-1027	-980	1037	22.238	-25.213	519.463	-573.638
22.5	851	-1111	-1121	1164	24.525	-28.563	497.225	-548.425
23	835	-1075	-1143	1193	23.875	-29.200	472.700	-519.863
23.5	858	-1131	-1159	1225	24.863	-29.800	448.825	-490.663
24	888	-1140	-1209	1244	25.350	-30.663	423.963	-460.863
24.5	852	-1104	-1221	1266	24.450	-31.088	398.613	-430.200
25	964	-1202	-1235	1312	27.075	-31.838	374.163	-399.113
25.5	1156	-1426	-1282	1343	32.275	-32.813	347.088	-367.275
26	1255	-1497	-1267	1328	34.400	-32.438	314.813	-334.463
26.5	1229	-1489	-1387	1418	33.975	-35.063	280.413	-302.025
27	1237	-1484	-1539	1585	34.013	-39.050	246.438	-266.963
27.5	1239	-1501	-1631	1684	34.250	-41.438	212.425	-227.913
28	1413	-1656	-1669	1712	38.363	-42.263	178.175	-188.475
28.5	1613	-1892	-1863	1895	43.813	-46.975	139.813	-144.213
29	1750	-1997	-1923	1958	46.838	-48.513	96.000	-97.238
29.5	1833	-2100	-1928	1970	49.163	-48.725	49.163	-48.725
30	1853	-2093	-1929	1983	49.325	-48.900	49.325	-48.900
30.5	1732	-1987	-1960	2007	46.488	-49.588	46.488	-49.588
31	1513	-1768	-2120	2169	41.013	-53.613	41.013	-53.613
31.5	1414	-1655	-2244	2313	38.363	-56.963	38.363	-56.963
32	1603	-1851	-2239	2317	43.175	-56.950	43.175	-56.950
32.5	1866	-2084	-2202	2249	49.375	-55.638	49.375	-55.638
33	1941	-2206	-2358	2386	51.838	-59.300	51.838	-59.300
33.5	2061	-2326	-2381	2426	54.838	-60.088	54.838	-60.088
34	2248	-2490	-2344	2430	59.225	-59.675	59.225	-59.675
34.5	2479	-2710	-2394	2452	64.863	-60.575	64.863	-60.575
35	2758	-3018	-2226	2293	72.200	-56.488	72.200	-56.488
35.5	2811	-3057	-2192	2228	73.350	-55.250	73.350	-55.250
36	2579	-2819	-2178	2230	67.475	-55.100	67.475	-55.100
36.5	2633	-2898	-2091	2147	69.138	-52.975	69.138	-52.975
37	2851	-3094	-2032	2092	74.313	-51.550	74.313	-51.550
37.5	3015	-3274	-2062	2115	78.613	-52.213	78.613	-52.213
38	3011	-3275	-2037	2110	78.575	-51.838	78.575	-51.838
38.5	2874	-3146	-2015	2080	75.250	-51.188	75.250	-51.188
39	2721	-2980	-1971	2041	71.263	-50.150	71.263	-50.150
39.5	2686	-2962	-1932	1975	70.600	-48.838	70.600	-48.838
Reference Point (40 m)							0.000	0.000

C305-IM04030

Serial number probe: 1032604

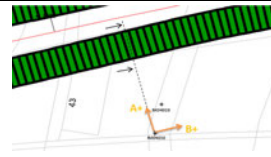


01/08/2012 11:50

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-1420	1514	826	-1095	-36.675	24.013	1419.775	-1919.588
1	-1407	1527	793	-1053	-36.675	23.075	1456.450	-1943.600
1.5	-1256	1343	768	-1026	-32.488	22.425	1493.125	-1966.675
2	-968	1089	729	-986	-25.713	21.438	1525.613	-1989.100
2.5	-808	889	672	-928	-21.213	20.000	1551.325	-2010.538
3	-610	722	657	-898	-16.650	19.438	1572.538	-2030.538
3.5	-459	550	614	-859	-12.613	18.413	1589.188	-2049.975
4	-446	548	456	-716	-12.425	14.650	1601.800	-2068.388
4.5	-447	559	271	-544	-12.575	10.188	1614.225	-2083.038
5	-379	470	218	-459	-10.613	8.463	1626.800	-2093.225
5.5	-441	541	328	-583	-12.275	11.388	1637.413	-2101.688
6	-412	498	319	-582	-11.375	11.263	1649.688	-2113.075
6.5	-412	524	355	-621	-11.700	12.200	1661.063	-2124.338
7	-415	518	101	-350	-11.663	5.638	1672.763	-2136.538
7.5	-590	674	-75	-211	-15.800	1.700	1684.425	-2142.175
8	-631	744	-94	-196	-17.188	1.275	1700.225	-2143.675
8.5	-603	691	-191	-109	-16.175	-1.025	1717.413	-2145.150
9	-496	605	-497	244	-13.763	-9.263	1733.588	-2144.125
9.5	-549	659	-683	407	-15.100	-13.625	1747.350	-2134.863
10	-646	757	-754	475	-17.538	-15.363	1762.450	-2121.238
10.5	-653	727	-904	653	-17.250	-19.463	1779.988	-2105.875
11	-508	623	-1023	761	-14.138	-22.300	1797.238	-2086.413
11.5	-317	398	-1025	769	-8.938	-22.425	1811.375	-2064.113
12	-35	145	-870	609	-2.250	-18.488	1820.313	-2041.688
12.5	148	-65	-681	422	2.538	-13.788	1822.563	-2023.200
13	194	-98	-591	338	3.650	-11.613	1820.025	-2009.413
13.5	133	-24	-690	428	1.963	-13.975	1816.375	-1997.800
14	123	-33	-703	443	1.950	-14.325	1814.413	-1983.825
14.5	168	-57	-719	458	2.813	-14.713	1812.463	-1969.500
15	212	-128	-756	490	4.250	-15.575	1809.650	-1954.788
15.5	277	-168	-787	529	5.563	-16.450	1805.400	-1939.213
16	129	-42	-900	629	2.138	-19.113	1799.838	-1922.763
16.5	12	117	-973	713	-1.313	-21.075	1797.700	-1903.650
17	24	82	-946	691	-0.725	-20.463	1799.013	-1882.575
17.5	77	62	-913	662	0.188	-19.688	1799.738	-1862.113
18	130	-45	-912	645	2.188	-19.463	1799.550	-1842.425
18.5	221	-106	-924	668	4.088	-19.900	1797.363	-1822.963
19	175	-95	-1111	856	3.375	-24.588	1793.275	-1803.063
19.5	104	38	-1230	978	0.825	-27.600	1789.900	-1778.475
20	164	-84	-1080	822	3.100	-23.775	1789.075	-1750.875
20.5	287	-178	-1048	778	5.813	-22.825	1785.975	-1727.100
21	437	-350	-1076	808	9.838	-23.550	1780.163	-1704.275
21.5	667	-556	-1069	804	15.288	-23.413	1770.325	-1680.725
22	944	-855	-1134	876	22.488	-25.125	1755.038	-1657.313
22.5	1024	-944	-1273	1008	24.600	-28.513	1732.550	-1632.188
23	1018	-922	-1294	1027	24.250	-29.013	1707.950	-1603.675
23.5	1041	-958	-1320	1055	24.988	-29.688	1683.700	-1574.663
24	1066	-965	-1356	1081	25.388	-30.463	1658.713	-1544.975
24.5	1038	-946	-1366	1109	24.800	-30.938	1633.325	-1514.513
25	1142	-1045	-1398	1136	27.338	-31.675	1608.525	-1483.575
25.5	1336	-1245	-1442	1171	32.263	-32.663	1581.188	-1451.900
26	1436	-1335	-1426	1151	34.638	-32.213	1548.925	-1419.238
26.5	1415	-1328	-1545	1265	34.288	-35.125	1514.288	-1387.025
27	1411	-1308	-1701	1427	33.988	-39.100	1480.000	-1351.900
27.5	1416	-1333	-1787	1526	34.363	-41.413	1446.013	-1312.800
28	1604	-1491	-1819	1558	38.688	-42.213	1411.650	-1271.388
28.5	1801	-1725	-2017	1735	44.075	-46.900	1372.963	-1229.175
29	1938	-1830	-2079	1800	47.100	-48.488	1328.888	-1182.275
29.5	2014	-1941	-2089	1813	49.438	-48.775	1281.788	-1133.788
30	2039	-1936	-2083	1814	49.688	-48.713	1232.350	-1085.013
30.5	1908	-1826	-2121	1847	46.675	-49.600	1182.663	-1036.300
31	1696	-1604	-2273	2006	41.250	-53.488	1135.988	-986.700
31.5	1586	-1483	-2403	2140	38.363	-56.788	1094.738	-933.213
32	1773	-1689	-2409	2143	43.275	-56.900	1056.375	-876.425
32.5	2035	-1927	-2353	2084	49.525	-55.463	1013.100	-819.525
33	2114	-2033	-2508	2229	51.838	-59.213	963.575	-764.063
33.5	2235	-2156	-2544	2267	54.888	-60.138	911.738	-704.850
34	2426	-2324	-2508	2254	59.375	-59.525	856.850	-644.713
34.5	2650	-2552	-2559	2295	65.025	-60.675	797.475	-585.188
35	2939	-2847	-2382	2126	72.325	-56.350	732.450	-524.513
35.5	2987	-2900	-2347	2069	73.588	-55.200	680.125	-468.163
36	2755	-2659	-2337	2058	67.675	-54.938	586.538	-412.963
36.5	2819	-2730	-2250	1981	69.363	-52.888	518.863	-358.025
37	3028	-2933	-2192	1932	74.513	-51.550	449.500	-305.138
37.5	3190	-3097	-2222	1952	78.588	-52.175	374.988	-253.588
38	3195	-3101	-2205	1938	78.700	-51.788	296.400	-201.413
38.5	3063	-2975	-2167	1908	75.475	-50.938	217.700	-149.625
39	2907	-2810	-2130	1868	71.463	-49.975	142.225	-98.688
39.5	2873	-2788	-2081	1816	70.763	-48.713	70.763	-48.713
Reference Point (40 m)							0.000	0.000

C305-IM04030

Serial number probe: 1035333

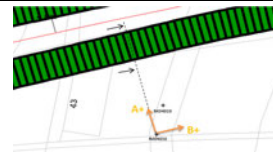


31/07/2012 15:03

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-1617	1344	971	-919	-37.013	23.625	176.863	-841.863
1	-1590	1351	955	-893	-36.763	23.100	213.875	-865.488
1.5	-1430	1182	918	-866	-32.650	22.300	250.638	-888.588
2	-1144	916	880	-816	-25.750	21.200	283.288	-910.888
2.5	-1000	715	831	-758	-21.438	19.863	309.038	-932.088
3	-803	547	813	-749	-16.875	19.525	330.475	-951.950
3.5	-650	389	772	-713	-12.988	18.563	347.350	-971.475
4	-629	376	615	-550	-12.563	14.563	360.338	-990.038
4.5	-634	386	432	-372	-12.750	10.050	372.900	-1004.600
5	-561	308	361	-303	-10.863	8.300	385.650	-1014.650
5.5	-614	370	473	-407	-12.300	11.000	396.513	-1022.950
6	-590	329	478	-418	-11.488	11.200	408.813	-1033.950
6.5	-597	362	508	-466	-11.988	12.175	420.300	-1045.150
7	-592	347	263	-180	-11.738	5.538	432.288	-1057.325
7.5	-772	515	85	-25	-16.088	1.375	444.025	-1062.863
8	-804	582	57	-46	-17.325	1.288	460.113	-1064.238
8.5	-782	525	-45	40	-16.338	-1.063	477.438	-1065.525
9	-668	444	-340	413	-13.900	-9.413	493.775	-1064.463
9.5	-721	482	-529	582	-15.038	-13.888	507.675	-1055.050
10	-831	600	-596	647	-17.888	-15.538	522.713	-1041.163
10.5	-834	560	-744	809	-17.425	-19.413	540.600	-1025.625
11	-677	451	-878	925	-14.100	-22.538	558.025	-1006.213
11.5	-503	228	-868	933	-9.138	-22.513	572.125	-983.675
12	-201	-28	-719	777	-2.163	-18.700	581.263	-961.163
12.5	-26	-215	-520	591	2.363	-13.888	583.425	-942.463
13	16	-276	-432	505	3.650	-11.713	581.063	-928.575
13.5	-52	-196	-529	596	1.800	-14.063	577.413	-916.863
14	-45	-203	-536	606	1.975	-14.275	575.613	-902.800
14.5	-19	-224	-568	628	2.563	-14.950	573.638	-888.525
15	31	-293	-593	649	4.050	-15.525	571.075	-873.575
15.5	96	-343	-630	694	5.488	-16.550	567.025	-858.050
16	-32	-207	-742	790	2.188	-19.150	561.538	-841.500
16.5	-174	-42	-814	880	-1.650	-21.175	559.350	-822.350
17	-153	-78	-790	855	-0.938	-20.563	561.000	-801.175
17.5	-101	-94	-768	820	-0.088	-19.850	561.938	-780.613
18	-49	-191	-759	805	1.775	-19.550	562.025	-760.763
18.5	33	-281	-773	839	3.925	-20.150	560.250	-741.213
19	-4	-264	-970	1015	3.250	-24.813	556.325	-721.063
19.5	-66	-122	-1075	1133	0.700	-27.600	553.075	-696.250
20	-21	-251	-921	980	2.875	-23.863	552.375	-668.650
20.5	99	-353	-898	943	5.650	-23.013	549.500	-644.788
21	247	-532	-922	976	9.738	-23.725	543.850	-621.775
21.5	478	-717	-917	973	14.938	-23.625	534.113	-598.050
22	772	-1011	-989	1054	22.288	-25.538	519.175	-574.425
22.5	847	-1108	-1109	1170	24.438	-28.488	496.888	-548.888
23	839	-1084	-1126	1192	24.038	-28.975	472.450	-520.400
23.5	860	-1122	-1164	1233	24.775	-29.963	448.413	-491.425
24	886	-1122	-1199	1248	25.100	-30.588	423.638	-461.463
24.5	859	-1116	-1215	1268	24.688	-31.038	398.538	-430.875
25	966	-1199	-1248	1310	27.063	-31.975	373.850	-399.838
25.5	1171	-1410	-1274	1330	32.263	-32.550	346.788	-367.863
26	1249	-1491	-1274	1325	34.250	-32.488	314.525	-335.313
26.5	1240	-1487	-1374	1426	34.088	-35.000	280.275	-302.825
27	1225	-1472	-1555	1598	33.713	-39.413	246.188	-267.825
27.5	1235	-1494	-1625	1682	34.113	-41.338	212.475	-228.413
28	1429	-1647	-1656	1723	38.450	-42.238	178.363	-187.075
28.5	1611	-1885	-1862	1909	43.700	-47.138	139.913	-144.838
29	1763	-1992	-1927	1972	46.938	-48.738	96.213	-97.700
29.5	1824	-2118	-1932	1985	49.275	-48.963	49.275	-48.963
30	1855	-2099	-1925	1977	49.425	-48.775	49.425	-48.775
30.5	1741	-2001	-1966	2012	46.775	-49.725	46.775	-49.725
31	1515	-1761	-2113	2182	40.950	-53.688	40.950	-53.688
31.5	1395	-1659	-2255	2317	38.175	-57.150	38.175	-57.150
32	1579	-1873	-2254	2290	43.150	-56.800	43.150	-56.800
32.5	1857	-2087	-2200	2260	49.300	-55.750	49.300	-55.750
33	1936	-2206	-2336	2392	51.775	-59.100	51.775	-59.100
33.5	2055	-2320	-2374	2426	54.688	-60.000	54.688	-60.000
34	2246	-2490	-2346	2414	59.200	-59.500	59.200	-59.500
34.5	2473	-2721	-2415	2455	64.925	-60.875	64.925	-60.875
35	2771	-3014	-2226	2282	72.313	-56.350	72.313	-56.350
35.5	2804	-3070	-2196	2234	73.425	-55.375	73.425	-55.375
36	2585	-2818	-2178	2230	67.538	-55.100	67.538	-55.100
36.5	2634	-2891	-2090	2145	69.063	-52.938	69.063	-52.938
37	2855	-3100	-2036	2093	74.438	-51.613	74.438	-51.613
37.5	3014	-3262	-2082	2130	78.450	-52.650	78.450	-52.650
38	3002	-3259	-2057	2113	78.263	-52.125	78.263	-52.125
38.5	2889	-3142	-2008	2069	75.388	-50.963	75.388	-50.963
39	2736	-2984	-1960	2024	71.500	-49.800	71.500	-49.800
39.5	2686	-2960	-1929	1982	70.575	-48.888	70.575	-48.888
Reference Point (40 m)							0.000	0.000

C305-IM04030

Serial number probe: 1032604

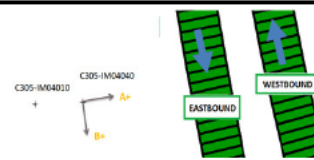


01/08/2012 13:21

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-1427	1506	807	-1089	-36.663	23.700	1423.088	-1923.363
1	-1415	1523	793	-1051	-36.725	23.050	1459.750	-1947.063
1.5	-1259	1343	767	-1029	-32.525	22.450	1496.475	-1970.113
2	-967	1084	723	-979	-25.638	21.275	1529.000	-1992.563
2.5	-810	889	666	-923	-21.238	19.863	1554.638	-2013.838
3	-610	720	654	-912	-16.625	19.575	1575.875	-2033.700
3.5	-460	552	611	-872	-12.650	18.538	1592.500	-2053.275
4	-446	550	455	-712	-12.450	14.588	1605.150	-2071.813
4.5	-446	557	270	-540	-12.538	10.125	1617.600	-2086.400
5	-376	473	202	-470	-10.613	8.400	1630.138	-2096.525
5.5	-435	541	321	-577	-12.200	11.225	1640.750	-2104.925
6	-409	500	319	-583	-11.363	11.275	1652.950	-2116.150
6.5	-413	523	346	-625	-11.700	12.138	1664.313	-2127.425
7	-411	518	96	-345	-11.613	5.513	1676.013	-2139.563
7.5	-587	674	-78	-197	-15.763	1.488	1687.625	-2145.075
8	-628	744	-96	-203	-17.150	1.338	1703.388	-2146.563
8.5	-603	692	-200	-118	-16.188	-1.025	1720.538	-2147.900
9	-492	604	-506	255	-13.700	-9.513	1736.725	-2148.875
9.5	-543	659	-677	414	-15.025	-13.638	1750.425	-2137.363
10	-646	757	-753	478	-17.538	-15.388	1765.450	-2123.725
10.5	-651	735	-907	635	-17.325	-19.275	1782.988	-2108.338
11	-505	625	-1026	765	-14.125	-22.388	1800.313	-2089.063
11.5	-315	401	-1027	763	-8.950	-22.375	1814.438	-2066.675
12	-28	145	-877	618	-2.163	-18.688	1823.388	-2044.300
12.5	150	-65	-682	421	2.563	-13.788	1825.550	-2025.613
13	201	-97	-596	338	3.725	-11.675	1822.988	-2011.825
13.5	134	-27	-692	430	2.013	-14.025	1819.263	-2000.150
14	127	-33	-700	441	2.000	-14.263	1817.250	-1986.125
14.5	165	-58	-721	459	2.788	-14.750	1815.250	-1971.863
15	217	-127	-755	492	4.300	-15.588	1812.463	-1957.113
15.5	275	-171	-792	530	5.575	-16.525	1808.163	-1941.525
16	139	-45	-890	625	2.300	-18.938	1802.588	-1925.000
16.5	16	117	-979	718	-1.263	-21.213	1800.288	-1906.063
17	31	84	-951	691	-0.663	-20.525	1801.550	-1884.850
17.5	80	61	-925	658	0.238	-19.788	1802.213	-1864.325
18	130	-34	-910	644	2.050	-19.425	1801.975	-1844.538
18.5	225	-107	-925	673	4.150	-19.975	1799.925	-1825.113
19	179	-100	-1129	857	3.488	-24.825	1795.775	-1805.138
19.5	111	39	-1232	970	0.900	-27.525	1792.288	-1780.313
20	167	-86	-1078	828	3.163	-23.825	1791.388	-1752.788
20.5	290	-182	-1057	784	5.900	-23.013	1788.225	-1728.963
21	435	-354	-1076	812	9.863	-23.600	1782.325	-1705.950
21.5	668	-556	-1077	809	15.300	-23.575	1772.463	-1682.350
22	948	-853	-1150	880	22.513	-25.375	1757.163	-1658.775
22.5	1034	-949	-1277	1008	24.788	-28.563	1734.650	-1633.400
23	1029	-922	-1296	1031	24.388	-29.088	1709.863	-1604.838
23.5	1047	-958	-1325	1065	25.063	-29.875	1685.475	-1575.750
24	1068	-962	-1360	1090	25.375	-30.625	1660.413	-1545.875
24.5	1047	-951	-1377	1108	24.975	-31.063	1635.038	-1515.250
25	1143	-1037	-1403	1137	27.250	-31.750	1610.063	-1484.188
25.5	1347	-1250	-1436	1167	32.463	-32.538	1582.813	-1452.438
26	1435	-1334	-1426	1160	34.613	-32.325	1550.350	-1419.900
26.5	1423	-1325	-1537	1269	34.350	-35.075	1515.738	-1387.575
27	1412	-1307	-1710	1428	33.988	-39.225	1481.388	-1352.500
27.5	1423	-1335	-1784	1515	34.475	-41.238	1447.400	-1313.275
28	1605	-1490	-1814	1565	38.688	-42.238	1412.925	-1272.038
28.5	1804	-1724	-2018	1747	44.100	-47.063	1374.238	-1229.800
29	1941	-1827	-2081	1807	47.100	-48.600	1330.138	-1182.738
29.5	2016	-1945	-2095	1814	49.513	-48.863	1283.038	-1134.138
30	2043	-1936	-2083	1805	49.738	-48.600	1233.525	-1085.275
30.5	1915	-1828	-2117	1851	46.788	-49.600	1183.788	-1036.675
31	1705	-1602	-2273	2011	41.338	-53.550	1137.000	-987.075
31.5	1586	-1488	-2419	2147	38.425	-57.075	1095.663	-933.525
32	1768	-1694	-2417	2133	43.275	-56.875	1057.238	-876.450
32.5	2031	-1929	-2360	2088	49.500	-55.600	1013.963	-819.575
33	2122	-2035	-2492	2225	51.963	-58.963	964.463	-763.975
33.5	2245	-2156	-2538	2264	55.013	-60.025	912.500	-705.013
34	2422	-2327	-2510	2257	59.363	-59.588	857.488	-644.988
34.5	2650	-2559	-2563	2292	65.113	-60.688	798.125	-585.400
35	2947	-2850	-2382	2118	72.463	-56.250	733.013	-524.713
35.5	2987	-2900	-2350	2072	73.588	-55.275	660.550	-468.463
36	2764	-2660	-2332	2064	67.800	-54.950	586.963	-413.188
36.5	2818	-2729	-2247	1986	69.338	-52.913	519.163	-358.238
37	3028	-2933	-2186	1937	74.513	-51.538	449.825	-305.325
37.5	3192	-3096	-2229	1959	78.600	-52.350	375.313	-253.788
38	3194	-3101	-2205	1944	78.688	-51.863	296.713	-201.438
38.5	3073	-2979	-2167	1902	75.650	-50.863	218.025	-149.575
39	2915	-2813	-2128	1862	71.600	-49.875	142.375	-98.713
39.5	2877	-2785	-2081	1826	70.775	-48.838	70.775	-48.838
Reference Point (40 m)							0.000	0.000

C305-IM04040

Serial number probe: 1035333

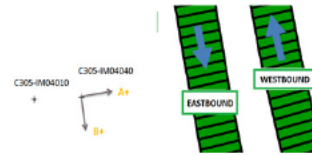


25/07/2012 10:21

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-694	466	-818	864	-14.500	-21.025	-2125.500	274.488
1	-717	480	-849	866	-14.963	-21.438	-2111.000	295.513
1.5	-860	627	-782	847	-18.588	-20.363	-2096.038	316.950
2	-858	618	-462	525	-18.450	-12.338	-2077.450	337.313
2.5	-754	552	-238	301	-16.325	-6.738	-2059.000	349.650
3	-798	540	29	-24	-16.725	0.663	-2042.675	356.388
3.5	-657	427	416	-368	-13.550	9.800	-2025.950	355.725
4	-564	327	736	-711	-11.138	18.088	-2012.400	345.925
4.5	-524	297	839	-823	-10.263	20.775	-2001.263	327.838
5	-522	245	599	-573	-9.588	14.650	-1991.000	307.063
5.5	-380	155	272	-234	-6.888	6.325	-1981.413	292.413
6	-251	15	-101	122	-3.325	-2.788	-1974.725	286.088
6.5	-85	-103	-416	438	0.225	-10.675	-1971.400	288.875
7	12	-256	-668	691	3.350	-16.988	-1971.625	299.550
7.5	59	-326	-723	767	4.813	-18.625	-1974.975	316.538
8	-85	-131	-544	600	0.575	-14.300	-1979.788	335.163
8.5	-317	89	-405	459	-5.075	-10.800	-1980.363	349.463
9	-515	283	-45	79	-9.975	-1.550	-1975.288	360.263
9.5	-914	694	787	-739	-20.100	19.075	-1965.313	361.813
10	-1240	970	1308	-1292	-27.625	32.500	-1945.213	342.738
10.5	-1256	1030	1936	-1842	-28.575	47.225	-1917.588	310.238
11	-1109	869	2045	-1996	-24.725	50.513	-1889.013	263.013
11.5	-1024	791	1771	-1727	-22.688	43.725	-1864.288	212.500
12	-921	702	1442	-1398	-20.288	35.500	-1841.600	168.775
12.5	-854	625	1039	-1018	-18.488	25.713	-1821.313	133.275
13	-840	589	652	-628	-17.863	16.000	-1802.825	107.563
13.5	-771	532	191	-129	-16.288	4.000	-1784.963	91.563
14	-839	378	-284	294	-12.713	-7.225	-1768.675	87.563
14.5	-585	369	-420	462	-11.925	-11.025	-1755.963	94.788
15	-559	311	-458	486	-10.875	-11.800	-1744.038	105.813
15.5	-548	311	-430	458	-10.738	-11.100	-1733.163	117.613
16	-652	417	-402	437	-13.363	-10.488	-1722.425	128.713
16.5	-738	500	-509	539	-15.475	-13.100	-1709.063	139.200
17	-832	556	-626	666	-17.350	-16.150	-1693.588	152.300
17.5	-784	549	-495	541	-16.663	-12.950	-1676.238	168.450
18	-741	458	-371	419	-14.988	-9.875	-1659.575	181.400
18.5	-634	401	-263	283	-12.938	-6.825	-1644.588	191.275
19	-621	362	-112	135	-12.288	-3.088	-1631.650	198.100
19.5	-782	537	-121	107	-16.488	-2.850	-1619.363	201.188
20	-1027	759	-291	329	-22.325	-7.750	-1602.875	204.038
20.5	-1093	862	-375	417	-24.438	-9.900	-1580.550	211.788
21	-1186	940	-433	469	-26.575	-11.275	-1556.113	221.688
21.5	-1258	1022	-509	521	-28.500	-12.875	-1529.538	232.963
22	-1375	1110	-488	544	-31.063	-12.900	-1501.038	245.838
22.5	-1552	1333	-677	681	-36.063	-16.975	-1469.975	258.738
23	-1674	1409	-864	879	-38.538	-21.788	-1433.913	275.713
23.5	-1552	1318	-744	816	-35.875	-19.500	-1395.375	297.500
24	-1397	1146	-661	706	-31.788	-17.088	-1359.500	317.000
24.5	-1293	1073	-541	600	-29.575	-14.263	-1327.713	334.088
25	-1193	934	-485	504	-26.588	-12.363	-1298.138	348.350
25.5	-1234	1006	-630	654	-28.000	-16.050	-1271.550	360.713
26	-1527	1293	-814	861	-35.250	-20.938	-1243.550	376.763
26.5	-1702	1456	-697	735	-39.475	-17.900	-1208.300	397.700
27	-1727	1483	-522	550	-40.125	-13.400	-1168.825	415.600
27.5	-1857	1590	-451	497	-43.088	-11.850	-1128.700	429.000
28	-1844	1628	-390	410	-43.400	-10.000	-1085.613	440.850
28.5	-1891	1664	-285	304	-44.438	-7.363	-1042.213	450.850
29	-1945	1717	-319	390	-45.775	-8.863	-997.775	458.213
29.5	-1922	1662	-371	401	-44.800	-9.650	-952.000	467.075
30	-1892	1635	-360	393	-44.088	-9.413	-907.200	476.725
30.5	-1856	1613	-233	262	-43.363	-6.188	-863.113	486.138
31	-1855	1615	-84	110	-43.375	-2.425	-819.750	492.325
31.5	-1828	1558	61	-32	-42.325	1.163	-776.375	494.750
32	-1760	1524	190	-148	-41.050	4.225	-734.050	493.588
32.5	-1822	1550	340	-278	-42.150	7.725	-693.000	489.363
33	-1896	1670	478	-406	-44.575	11.050	-650.850	481.638
33.5	-2056	1804	587	-530	-48.250	13.963	-606.275	470.588
34	-2206	1984	646	-578	-52.375	15.300	-558.025	456.625
34.5	-2268	2029	772	-711	-53.713	18.538	-505.650	441.325
35	-2223	1966	1010	-954	-52.363	24.550	-451.938	422.788
35.5	-2156	1927	1229	-1192	-51.038	30.263	-399.575	398.238
36	-2104	1861	1408	-1363	-49.563	34.638	-348.538	367.975
36.5	-2030	1803	1541	-1492	-47.913	37.913	-298.975	333.338
37	-1987	1739	1609	-1569	-46.575	39.725	-251.063	295.425
37.5	-1797	1540	1564	-1553	-41.713	38.963	-204.488	255.700
38	-1590	1361	1558	-1499	-36.888	38.213	-162.775	216.738
38.5	-1569	1316	1692	-1650	-36.063	41.775	-125.888	178.525
39	-1444	1196	1789	-1755	-33.000	44.300	-89.825	136.750
39.5	-1284	1045	1863	-1801	-29.113	45.800	-56.825	92.450
40	-1219	998	1890	-1842	-27.713	46.650	-27.713	46.650
Reference Point (40.5 m)							0.000	0.000

C305-IM04040

Serial number probe: 1032604

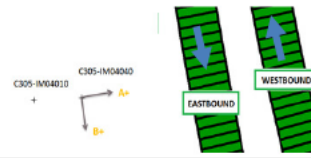


26/07/2012 16:21

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-510	635	-979	697	-14.313	-20.950	-2109.713	280.775
1	-533	635	-996	713	-14.600	-21.363	-2095.400	301.725
1.5	-670	793	-936	666	-18.288	-20.025	-2080.800	323.088
2	-666	776	-631	353	-18.025	-12.300	-2062.513	343.113
2.5	-587	717	-403	121	-16.300	-6.550	-2044.488	355.413
3	-609	713	-131	-190	-16.525	0.738	-2028.188	361.963
3.5	-484	603	250	-535	-13.588	9.813	-2011.663	361.225
4	-374	486	580	-868	-10.750	18.100	-1998.075	351.413
4.5	-343	463	681	-979	-10.075	20.750	-1987.325	333.313
5	-339	428	452	-731	-9.588	14.788	-1977.250	312.563
5.5	-210	330	118	-401	-6.750	6.488	-1967.663	297.775
6	-80	176	-259	-39	-3.200	-2.750	-1960.913	291.288
6.5	89	60	-576	283	0.363	-10.738	-1957.713	294.038
7	199	-97	-826	537	3.700	-17.038	-1958.075	304.775
7.5	247	-150	-881	605	4.963	-18.575	-1961.775	321.813
8	110	35	-699	426	0.938	-14.063	-1966.738	340.388
8.5	-140	249	-574	283	-4.863	-10.713	-1967.675	354.450
9	-328	449	-218	-100	-9.713	-1.475	-1962.813	365.163
9.5	-737	864	617	-896	-20.013	18.913	-1953.100	366.638
10	-1051	1149	1160	-1460	-27.500	32.750	-1933.088	347.725
10.5	-1085	1194	1766	-2019	-28.488	47.313	-1905.588	314.975
11	-933	1039	1886	-2162	-24.650	50.600	-1877.100	267.663
11.5	-842	965	1619	-1900	-22.588	43.988	-1852.450	217.063
12	-753	856	1292	-1573	-20.113	35.813	-1829.863	173.075
12.5	-673	788	876	-1180	-18.263	25.700	-1809.750	137.263
13	-648	766	491	-782	-17.675	15.913	-1791.488	111.563
13.5	-594	704	27	-299	-16.225	4.075	-1773.813	95.650
14	-449	547	-436	134	-12.450	-7.125	-1757.588	91.575
14.5	-396	521	-582	289	-11.463	-10.888	-1745.138	98.700
15	-380	480	-603	320	-10.750	-11.538	-1733.675	109.588
15.5	-367	479	-585	306	-10.575	-11.138	-1722.925	121.125
16	-457	579	-572	283	-12.950	-10.688	-1712.350	132.263
16.5	-559	674	-668	366	-15.413	-12.925	-1699.400	142.950
17	-641	734	-772	489	-17.188	-15.763	-1683.988	155.875
17.5	-590	716	-647	372	-16.325	-12.738	-1666.800	171.638
18	-542	634	-534	261	-14.700	-9.938	-1650.475	184.375
18.5	-453	580	-406	116	-12.913	-6.525	-1635.775	194.313
19	-432	528	-274	-31	-12.000	-3.038	-1622.863	200.838
19.5	-591	715	-278	-47	-16.325	-2.888	-1610.863	203.875
20	-830	933	-445	161	-22.038	-7.575	-1594.538	206.763
20.5	-909	1028	-536	248	-24.213	-9.800	-1572.500	214.338
21	-1008	1110	-595	315	-26.475	-11.375	-1548.288	224.138
21.5	-1071	1198	-655	364	-28.363	-12.738	-1521.813	235.513
22	-1194	1290	-654	365	-31.050	-12.738	-1493.450	248.250
22.5	-1371	1497	-827	531	-35.850	-16.975	-1462.400	260.988
23	-1497	1587	-1017	716	-38.550	-21.663	-1426.550	277.963
23.5	-1364	1485	-913	650	-35.613	-19.538	-1388.000	299.625
24	-1217	1314	-827	537	-31.638	-17.050	-1352.388	319.163
24.5	-1103	1225	-707	429	-29.100	-14.200	-1320.750	336.213
25	-1002	1096	-633	339	-26.225	-12.150	-1291.650	350.413
25.5	-1053	1174	-779	477	-27.838	-15.700	-1265.425	362.563
26	-1348	1464	-982	701	-35.150	-21.038	-1237.588	378.263
26.5	-1521	1625	-864	578	-39.325	-18.025	-1202.438	399.300
27	-1539	1657	-689	392	-39.950	-13.513	-1163.113	417.325
27.5	-1663	1764	-596	327	-42.838	-11.538	-1123.163	430.838
28	-1669	1791	-534	243	-43.250	-9.713	-1080.325	442.375
28.5	-1722	1830	-433	142	-44.400	-7.188	-1037.075	452.088
29	-1772	1880	-490	214	-45.650	-8.800	-992.675	459.275
29.5	-1734	1842	-536	244	-44.700	-9.750	-947.025	468.075
30	-1700	1813	-528	238	-43.913	-9.575	-902.325	477.825
30.5	-1681	1788	-383	97	-43.363	-6.000	-858.413	487.400
31	-1664	1787	-250	-49	-43.138	-2.513	-815.050	493.400
31.5	-1633	1725	-111	-201	-41.975	1.125	-771.913	495.913
32	-1573	1696	32	-310	-40.863	4.275	-729.938	494.788
32.5	-1622	1721	168	-451	-41.788	7.738	-689.075	490.513
33	-1715	1835	323	-584	-44.375	11.338	-647.288	482.775
33.5	-1866	1973	417	-701	-47.988	13.975	-602.913	471.438
34	-2030	2145	473	-751	-52.188	15.300	-554.925	457.463
34.5	-2084	2197	607	-875	-53.513	18.525	-502.738	442.163
35	-2024	2121	837	-1117	-51.813	24.425	-449.225	423.638
35.5	-1977	2096	1068	-1357	-50.913	30.313	-397.413	399.213
36	-1930	2025	1247	-1525	-49.438	34.650	-346.500	368.900
36.5	-1832	1955	1377	-1657	-47.338	37.925	-297.063	334.250
37	-1806	1902	1463	-1744	-46.350	40.088	-249.725	296.325
37.5	-1801	1706	1409	-1708	-41.338	38.963	-203.375	256.238
38	-1408	1527	1396	-1665	-36.688	38.263	-162.038	217.275
38.5	-1388	1499	1533	-1808	-36.088	41.763	-125.350	179.013
39	-1259	1372	1640	-1911	-32.888	44.388	-89.263	137.250
39.5	-1102	1204	1703	-1976	-28.825	45.988	-56.375	92.863
40	-1042	1162	1735	-2015	-27.550	46.875	-27.550	46.875
Reference Point (40.5 m)							0.000	0.000

C305-IM04040

Serial number probe: 1035333

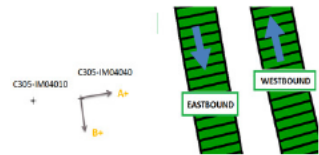


25/07/2012 11:31

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-690	480	-816	861	-14.625	-20.963	-2124.150	271.363
1	-709	478	-843	884	-14.838	-21.588	-2109.525	292.325
1.5	-848	643	-769	800	-18.638	-19.613	-2094.688	313.913
2	-849	612	-478	515	-18.263	-12.413	-2076.050	333.525
2.5	-752	545	-250	276	-16.213	-6.575	-2057.788	345.938
3	-797	566	13	-28	-17.038	0.513	-2041.575	352.513
3.5	-653	435	404	-375	-13.600	9.738	-2024.538	352.000
4	-551	324	748	-691	-10.938	17.988	-2010.938	342.263
4.5	-517	297	838	-813	-10.175	20.638	-2000.000	324.275
5	-514	267	596	-563	-9.763	14.488	-1989.825	303.638
5.5	-366	170	256	-244	-6.700	6.250	-1980.063	289.150
6	-239	27	-134	118	-3.325	-3.150	-1973.363	282.900
6.5	-76	-100	-432	453	0.300	-11.063	-1970.038	286.050
7	19	-263	-664	702	3.525	-17.075	-1970.338	297.113
7.5	71	-293	-741	768	4.550	-18.863	-1973.863	314.188
8	-74	-136	-539	581	0.775	-14.000	-1978.413	333.050
8.5	-305	105	-411	445	-5.125	-10.700	-1979.188	347.050
9	-507	277	-58	83	-9.800	-1.763	-1974.063	357.750
9.5	-908	700	764	-726	-20.100	18.625	-1964.263	359.513
10	-1230	984	1328	-1293	-27.675	32.763	-1944.163	340.888
10.5	-1251	1017	1906	-1868	-28.350	47.175	-1916.488	308.125
11	-1119	868	2056	-2020	-24.838	50.950	-1888.138	260.950
11.5	-1019	812	1777	-1734	-22.888	43.888	-1863.300	210.000
12	-933	696	1442	-1401	-20.363	35.538	-1840.413	166.113
12.5	-844	628	1050	-1017	-18.400	25.838	-1820.050	130.575
13	-823	611	653	-626	-17.925	15.988	-1801.650	104.738
13.5	-762	542	173	-130	-16.300	3.788	-1783.725	88.750
14	-615	383	-271	289	-12.475	-7.000	-1767.425	84.963
14.5	-578	354	-430	463	-11.650	-11.163	-1754.950	91.963
15	-550	315	-457	476	-10.813	-11.663	-1743.300	103.125
15.5	-539	328	-442	460	-10.838	-11.275	-1732.488	114.788
16	-632	423	-406	451	-13.188	-10.713	-1721.650	126.063
16.5	-725	522	-487	546	-15.588	-12.913	-1708.463	136.775
17	-808	577	-614	643	-17.313	-15.713	-1692.875	149.688
17.5	-767	550	-503	525	-16.463	-12.850	-1675.563	165.400
18	-712	474	-387	416	-14.825	-10.038	-1659.100	178.250
18.5	-637	426	-259	274	-13.288	-6.663	-1644.275	188.288
19	-605	379	-127	129	-12.300	-3.200	-1630.988	194.950
19.5	-770	554	-125	113	-16.550	-2.975	-1618.688	198.150
20	-1000	781	-286	320	-22.263	-7.575	-1602.138	201.125
20.5	-1086	862	-370	406	-24.350	-9.700	-1579.875	208.700
21	-1173	955	-438	482	-26.600	-11.500	-1555.525	218.400
21.5	-1251	1038	-493	524	-28.613	-12.713	-1528.925	229.900
22	-1363	1122	-501	534	-31.063	-12.938	-1500.313	242.613
22.5	-1547	1335	-680	688	-36.025	-17.100	-1469.250	255.550
23	-1678	1423	-849	885	-38.763	-21.675	-1433.225	272.650
23.5	-1542	1324	-793	810	-35.825	-20.038	-1394.463	294.325
24	-1391	1145	-680	698	-31.700	-17.225	-1358.638	314.363
24.5	-1282	1059	-557	599	-29.263	-14.450	-1328.938	331.588
25	-1173	934	-490	509	-26.338	-12.488	-1297.675	346.038
25.5	-1238	1013	-607	650	-28.138	-15.713	-1271.338	358.525
26	-1525	1296	-829	865	-35.263	-21.175	-1243.200	374.238
26.5	-1709	1464	-716	745	-39.663	-18.263	-1207.938	395.413
27	-1711	1499	-551	548	-40.125	-13.738	-1168.275	413.675
27.5	-1843	1609	-454	478	-43.150	-11.650	-1128.150	427.413
28	-1838	1625	-377	401	-43.288	-9.725	-1085.000	439.063
28.5	-1905	1670	-289	309	-44.688	-7.475	-1041.713	448.788
29	-1958	1724	-338	369	-46.025	-8.838	-997.025	456.263
29.5	-1912	1674	-374	406	-44.825	-9.750	-951.000	465.100
30	-1873	1656	-377	410	-44.113	-9.838	-906.175	474.850
30.5	-1846	1626	-233	260	-43.400	-6.163	-862.063	484.688
31	-1845	1636	-95	140	-43.513	-2.938	-818.663	490.850
31.5	-1810	1563	43	-46	-42.163	1.113	-775.150	493.788
32	-1748	1537	189	-145	-41.063	4.175	-732.988	492.675
32.5	-1794	1569	329	-286	-42.038	7.688	-691.925	488.500
33	-1888	1666	460	-412	-44.425	10.900	-649.888	480.813
33.5	-2047	1806	562	-539	-48.163	13.763	-605.463	469.913
34	-2207	1985	608	-579	-52.400	14.838	-557.300	456.150
34.5	-2254	2028	771	-725	-53.525	18.700	-504.900	441.313
35	-2202	1948	983	-978	-51.875	24.513	-451.375	422.613
35.5	-2165	1933	1229	-1214	-51.225	30.538	-399.500	398.100
36	-2109	1867	1403	-1363	-49.700	34.575	-348.275	367.563
36.5	-2014	1791	1538	-1479	-47.563	37.713	-298.575	332.988
37	-1979	1738	1618	-1588	-46.463	40.075	-251.013	295.275
37.5	-1778	1533	1579	-1543	-41.388	39.025	-204.550	255.200
38	-1583	1360	1537	-1514	-36.788	38.138	-163.163	216.175
38.5	-1574	1343	1669	-1649	-36.463	41.475	-126.375	178.038
39	-1445	1206	1780	-1752	-33.138	44.150	-89.913	136.563
39.5	-1279	1040	1857	-1814	-28.988	45.888	-56.775	92.413
40	-1218	1005	1884	-1838	-27.788	46.525	-27.788	46.525
Reference Point (40.5 m)							0.000	0.000

C305-IM04040

Serial number probe: 1032604

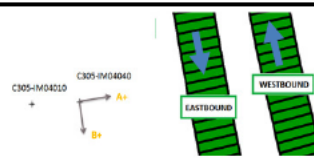


27/07/2012 09:35

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-495	636	-984	694	-14.138	-20.975	-2107.738	277.450
1	-530	638	-987	713	-14.800	-21.250	-2093.600	298.425
1.5	-663	812	-936	646	-18.438	-19.775	-2079.000	319.675
2	-659	780	-630	348	-17.988	-12.225	-2060.563	339.450
2.5	-577	721	-407	120	-16.225	-6.588	-2042.575	351.675
3	-607	723	-138	-190	-16.625	0.650	-2026.350	358.263
3.5	-469	607	242	-537	-13.450	9.738	-2009.725	357.613
4	-372	489	583	-862	-10.763	18.063	-1996.275	347.875
4.5	-338	468	686	-980	-10.075	20.825	-1985.513	329.813
5	-322	438	435	-734	-9.500	14.613	-1975.438	308.988
5.5	-197	333	106	-407	-6.825	6.413	-1965.938	294.375
6	-67	185	-285	-37	-3.150	-3.100	-1959.313	287.963
6.5	98	61	-578	295	0.463	-10.913	-1956.163	291.063
7	209	-95	-826	538	3.800	-17.050	-1956.625	301.975
7.5	266	-132	-894	604	4.975	-18.725	-1960.425	319.025
8	118	35	-699	415	1.038	-13.925	-1965.400	337.750
8.5	-127	260	-570	284	-4.838	-10.675	-1966.438	351.675
9	-324	456	-219	-93	-9.750	-1.575	-1961.600	362.350
9.5	-730	868	612	-896	-19.975	18.850	-1951.850	363.925
10	-1039	1158	1165	-1454	-27.463	32.738	-1931.875	345.075
10.5	-1070	1195	1759	-2024	-28.313	47.288	-1904.413	312.338
11	-926	1043	1890	-2188	-24.613	50.975	-1876.100	265.050
11.5	-839	974	1613	-1902	-22.663	43.938	-1851.486	214.075
12	-744	860	1275	-1568	-20.050	35.538	-1828.825	170.138
12.5	-660	788	880	-1170	-18.100	25.625	-1808.775	134.600
13	-642	773	490	-791	-17.688	16.013	-1790.675	108.975
13.5	-581	711	21	-298	-16.150	3.988	-1772.988	92.962
14	-439	557	-436	132	-12.450	-7.100	-1756.838	88.975
14.5	-388	524	-582	288	-11.400	-10.875	-1744.388	96.075
15	-371	490	-611	315	-10.763	-11.575	-1732.988	106.950
15.5	-356	488	-594	303	-10.550	-11.213	-1722.225	118.525
16	-455	585	-568	280	-13.000	-10.600	-1711.675	129.738
16.5	-551	679	-649	378	-15.375	-12.838	-1698.675	140.338
17	-634	749	-781	484	-17.288	-15.813	-1683.300	153.175
17.5	-583	723	-658	366	-16.325	-12.800	-1666.013	168.988
18	-535	645	-548	256	-14.750	-10.050	-1649.688	181.788
18.5	-446	587	-410	114	-12.913	-6.550	-1634.938	191.838
19	-426	537	-279	-29	-12.038	-3.200	-1622.025	198.388
19.5	-582	725	-283	-42	-16.338	-3.013	-1609.988	201.588
20	-823	941	-453	154	-22.050	-7.588	-1593.650	204.600
20.5	-901	1037	-536	251	-24.225	-9.838	-1571.600	212.188
21	-1003	1118	-591	309	-26.513	-11.250	-1547.375	222.025
21.5	-1062	1204	-654	359	-28.325	-12.663	-1520.863	233.275
22	-1190	1297	-646	371	-31.088	-12.713	-1492.538	245.938
22.5	-1364	1506	-829	530	-35.875	-16.988	-1461.450	258.650
23	-1489	1595	-1017	721	-38.550	-21.725	-1425.575	275.638
23.5	-1356	1496	-947	646	-35.650	-19.913	-1387.025	297.363
24	-1209	1316	-830	538	-31.563	-17.100	-1351.375	317.275
24.5	-1093	1231	-722	431	-29.050	-14.413	-1319.813	334.375
25	-994	1100	-643	342	-26.175	-12.313	-1290.763	348.788
25.5	-1046	1182	-775	473	-27.850	-15.600	-1264.588	361.100
26	-1345	1473	-987	695	-35.225	-21.025	-1236.738	376.700
26.5	-1515	1629	-866	572	-39.300	-17.975	-1201.513	397.725
27	-1532	1666	-697	389	-39.975	-13.575	-1162.213	415.700
27.5	-1656	1773	-610	323	-42.863	-11.663	-1122.238	429.275
28	-1661	1797	-535	242	-43.225	-9.713	-1079.375	440.938
28.5	-1715	1835	-444	140	-44.375	-7.300	-1036.150	450.650
29	-1765	1886	-494	212	-45.638	-8.825	-991.775	457.950
29.5	-1724	1850	-541	242	-44.675	-9.788	-946.138	466.775
30	-1693	1820	-529	240	-43.913	-9.613	-901.463	476.563
30.5	-1673	1791	-386	96	-43.300	-6.025	-857.550	486.175
31	-1656	1792	-256	-38	-43.100	-2.725	-814.250	492.200
31.5	-1625	1730	-111	-215	-41.938	1.300	-771.150	494.925
32	-1564	1700	20	-307	-40.800	4.088	-729.213	493.625
32.5	-1614	1726	162	-458	-41.750	7.750	-688.413	489.538
33	-1705	1836	300	-584	-44.263	11.050	-646.663	481.788
33.5	-1860	1981	414	-704	-48.013	13.975	-602.400	470.738
34	-2024	2151	459	-751	-52.188	15.125	-554.388	456.763
34.5	-2078	2201	599	-884	-53.488	18.538	-502.200	441.638
35	-2017	2124	824	-1131	-51.763	24.438	-448.713	423.100
35.5	-1969	2101	1069	-1365	-50.875	30.425	-396.950	398.663
36	-1916	2030	1241	-1527	-49.325	34.600	-346.075	368.238
36.5	-1825	1958	1367	-1658	-47.288	37.813	-296.750	333.638
37	-1794	1911	1465	-1745	-46.313	40.125	-249.463	295.825
37.5	-1587	1711	1410	-1709	-41.225	38.988	-203.150	255.700
38	-1404	1532	1386	-1669	-36.700	38.188	-161.925	216.713
38.5	-1380	1503	1521	-1808	-36.038	41.613	-125.225	178.525
39	-1258	1374	1626	-1921	-32.900	44.338	-89.188	136.913
39.5	-1089	1211	1698	-1973	-28.750	45.888	-56.288	92.575
40	-1033	1170	1722	-2013	-27.538	46.688	-27.538	46.688
Reference Point (40.5 m)							0.000	0.000

C305-IM04040

Serial number probe: 1035333

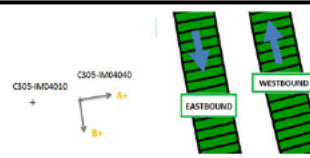


25/07/2012 12:52

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-675	474	-819	861	-14.363	-21.000	-2120.388	270.513
1	-730	458	-840	872	-14.850	-21.400	-2106.025	291.513
1.5	-843	619	-780	833	-18.275	-20.163	-2091.175	312.913
2	-849	624	-475	524	-18.413	-12.488	-2072.900	333.075
2.5	-765	550	-237	280	-16.438	-6.463	-2054.488	345.563
3	-796	552	33	-8	-16.850	0.513	-2038.050	352.025
3.5	-853	451	406	-354	-13.800	9.500	-2021.200	351.513
4	-553	317	745	-695	-10.875	18.000	-2007.400	342.013
4.5	-508	300	840	-814	-10.100	20.675	-1996.525	324.013
5	-507	271	601	-571	-9.725	14.650	-1986.425	303.338
5.5	-388	174	280	-240	-7.025	6.500	-1976.700	288.688
6	-250	9	-132	133	-3.238	-3.313	-1969.675	282.188
6.5	-70	-110	-440	449	0.500	-11.113	-1966.438	285.500
7	22	-269	-663	708	3.638	-17.138	-1966.938	296.613
7.5	83	-302	-722	773	4.813	-18.688	-1970.575	313.750
8	-59	-132	-544	590	0.913	-14.175	-1975.388	332.438
8.5	-312	86	-403	451	-4.975	-10.675	-1976.300	346.613
9	-513	288	-53	62	-10.013	-1.438	-1971.325	357.288
9.5	-905	704	765	-719	-20.113	18.550	-1961.313	358.725
10	-1231	996	1330	-1282	-27.838	32.650	-1941.200	340.175
10.5	-1245	1036	1937	-1864	-28.513	47.513	-1913.363	307.525
11	-1126	882	2039	-2015	-25.100	50.675	-1884.850	260.013
11.5	-1017	808	1790	-1741	-22.813	44.138	-1859.750	209.338
12	-919	695	1433	-1417	-20.175	35.625	-1836.938	165.200
12.5	-848	619	1046	-1002	-18.338	25.600	-1816.763	129.575
13	-834	605	640	-628	-17.988	15.850	-1798.425	103.975
13.5	-763	541	149	-138	-16.300	3.588	-1780.438	88.125
14	-617	384	-276	305	-12.513	-7.263	-1764.138	84.538
14.5	-574	356	-428	451	-11.625	-10.988	-1751.625	91.800
15	-549	323	-449	492	-10.900	-11.763	-1740.000	102.788
15.5	-536	325	-419	479	-10.763	-11.225	-1729.100	114.550
16	-646	413	-417	453	-13.238	-10.875	-1718.338	125.775
16.5	-740	514	-489	536	-15.675	-12.813	-1705.100	136.650
17	-826	573	-598	656	-17.488	-15.675	-1689.425	149.463
17.5	-763	546	-496	549	-16.363	-13.063	-1671.938	165.138
18	-706	467	-390	414	-14.663	-10.050	-1655.575	178.200
18.5	-639	406	-251	273	-13.063	-6.550	-1640.913	188.250
19	-606	369	-127	127	-12.188	-3.175	-1627.850	194.800
19.5	-768	556	-121	119	-16.550	-3.000	-1615.663	197.975
20	-1004	778	-292	329	-22.275	-7.763	-1599.113	200.975
20.5	-1079	888	-396	416	-24.338	-10.150	-1576.838	208.738
21	-1187	942	-453	482	-26.613	-11.688	-1552.500	218.888
21.5	-1253	1035	-500	537	-28.600	-12.963	-1525.888	230.575
22	-1380	1119	-483	524	-31.238	-12.588	-1497.288	243.538
22.5	-1553	1333	-666	701	-36.075	-17.088	-1466.050	256.125
23	-1670	1427	-837	892	-38.713	-21.613	-1429.975	273.213
23.5	-1533	1333	-773	805	-35.825	-19.725	-1391.263	294.825
24	-1378	1141	-673	702	-31.488	-17.188	-1355.438	314.550
24.5	-1283	1058	-558	603	-29.263	-14.513	-1323.950	331.738
25	-1177	924	-475	504	-26.263	-12.238	-1294.688	346.250
25.5	-1222	1007	-634	653	-27.863	-16.088	-1268.425	358.488
26	-1531	1306	-819	866	-35.463	-21.063	-1240.563	374.575
26.5	-1711	1449	-726	737	-39.500	-18.288	-1205.100	395.638
27	-1706	1503	-516	555	-40.113	-13.388	-1165.600	413.925
27.5	-1835	1604	-449	478	-42.988	-11.588	-1125.488	427.313
28	-1849	1623	-378	421	-43.400	-9.988	-1082.500	438.900
28.5	-1900	1665	-276	304	-44.563	-7.250	-1039.100	448.888
29	-1956	1726	-337	383	-46.025	-9.000	-994.538	456.138
29.5	-1917	1680	-364	423	-44.963	-9.838	-948.513	465.138
30	-1874	1655	-351	403	-44.113	-9.425	-903.550	474.975
30.5	-1860	1615	-218	269	-43.438	-6.088	-859.438	484.400
31	-1846	1620	-97	119	-43.325	-2.700	-816.000	490.488
31.5	-1795	1566	42	-47	-42.013	1.113	-772.675	493.188
32	-1746	1524	174	-141	-40.875	3.938	-730.663	492.075
32.5	-1792	1555	316	-282	-41.838	7.475	-689.788	488.138
33	-1884	1688	460	-411	-44.400	10.888	-647.950	480.663
33.5	-2044	1801	559	-536	-48.063	13.688	-603.550	469.775
34	-2207	1989	625	-593	-52.450	15.225	-555.488	456.088
34.5	-2243	2026	774	-709	-53.363	18.538	-503.038	440.863
35	-2187	1957	995	-958	-51.800	24.413	-449.675	422.325
35.5	-2144	1928	1227	-1188	-50.900	30.188	-397.875	397.913
36	-2104	1888	1413	-1356	-49.650	34.613	-346.975	367.725
36.5	-1996	1778	1529	-1498	-47.175	37.838	-297.325	333.113
37	-1983	1738	1624	-1576	-46.513	40.000	-250.150	295.275
37.5	-1776	1537	1559	-1545	-41.413	38.800	-203.638	255.275
38	-1577	1359	1547	-1496	-36.700	38.038	-162.225	216.475
38.5	-1574	1325	1688	-1649	-36.238	41.713	-125.525	178.438
39	-1429	1202	1784	-1752	-32.888	44.200	-89.288	136.725
39.5	-1262	1046	1859	-1811	-28.850	45.875	-56.400	92.525
40	-1205	999	1894	-1838	-27.550	46.650	-27.550	46.650
Reference Point (40.5 m)							0.000	0.000

C305-IM04040

Serial number probe: 1032604



27/07/2012 10:34

Depth (m)	A+	A-	B+	B-	A (mm)	B (mm)	Cumulative A (mm)	Cumulative B (mm)
0.5	-500	638	-982	695	-14.225	-20.963	-2105.763	276.900
1	-539	636	-996	714	-14.688	-21.375	-2091.538	297.863
1.5	-668	793	-932	670	-18.263	-20.025	-2076.850	319.238
2	-661	781	-632	355	-18.025	-12.338	-2058.588	339.263
2.5	-582	721	-402	121	-16.288	-6.538	-2040.563	351.600
3	-602	721	-124	-182	-16.538	0.725	-2024.275	358.138
3.5	-469	609	246	-524	-13.475	9.625	-2007.738	357.413
4	-372	492	587	-861	-10.800	18.100	-1994.263	347.788
4.5	-325	468	684	-980	-9.913	20.800	-1983.463	329.688
5	-324	438	450	-739	-9.525	14.863	-1973.550	308.888
5.5	-199	334	114	-399	-6.863	6.413	-1964.025	294.025
6	-69	183	-285	-28	-3.150	-3.213	-1957.363	287.613
6.5	106	60	-597	292	0.575	-11.113	-1954.213	290.825
7	210	-98	-828	545	3.850	-17.163	-1954.788	301.938
7.5	257	-135	-887	607	4.900	-18.675	-1958.638	319.100
8	115	37	-699	417	0.975	-13.950	-1963.538	337.775
8.5	-129	257	-560	287	-4.825	-10.588	-1964.513	351.725
9	-329	460	-217	-96	-9.863	-1.513	-1959.688	362.313
9.5	-731	874	615	-891	-20.063	18.825	-1949.825	363.825
10	-1040	1161	1173	-1454	-27.513	32.838	-1929.763	345.000
10.5	-1068	1205	1770	-2026	-28.413	47.450	-1902.250	312.163
11	-932	1047	1883	-2181	-24.738	50.800	-1873.838	264.713
11.5	-825	973	1623	-1914	-22.475	44.213	-1849.100	213.913
12	-743	863	1275	-1576	-20.075	35.638	-1826.625	169.700
12.5	-658	794	880	-1168	-18.150	25.600	-1806.550	134.063
13	-641	772	485	-785	-17.663	15.875	-1788.400	108.463
13.5	-581	711	-6	-301	-16.150	3.688	-1770.738	92.587
14	-441	555	-437	142	-12.450	-7.238	-1754.588	88.900
14.5	-392	521	-581	293	-11.413	-10.925	-1742.138	96.137
15	-370	486	-604	327	-10.700	-11.638	-1730.725	107.063
15.5	-362	488	-587	305	-10.625	-11.150	-1720.025	118.700
16	-454	583	-567	291	-12.963	-10.725	-1709.400	129.850
16.5	-555	678	-657	368	-15.413	-12.813	-1696.438	140.575
17	-637	741	-767	489	-17.225	-15.700	-1681.025	153.388
17.5	-581	720	-661	374	-16.263	-12.938	-1663.800	169.088
18	-533	642	-551	259	-14.688	-10.125	-1647.538	182.025
18.5	-446	581	-405	108	-12.838	-6.425	-1632.850	192.150
19	-424	536	-281	-28	-12.000	-3.163	-1620.013	198.575
19.5	-585	721	-289	-41	-16.325	-3.088	-1608.013	201.738
20	-824	936	-457	162	-22.000	-7.738	-1591.688	204.825
20.5	-900	1034	-544	246	-24.175	-9.875	-1569.688	212.563
21	-1003	1116	-602	316	-26.488	-11.475	-1545.513	222.438
21.5	-1066	1198	-661	381	-28.300	-13.025	-1519.025	233.913
22	-1192	1295	-642	368	-31.088	-12.625	-1490.725	246.938
22.5	-1366	1502	-824	534	-35.850	-16.975	-1459.638	259.563
23	-1488	1594	-1004	722	-38.525	-21.575	-1423.788	276.538
23.5	-1362	1492	-924	649	-35.675	-19.663	-1385.263	298.113
24	-1206	1316	-837	546	-31.525	-17.288	-1349.588	317.775
24.5	-1094	1231	-724	436	-29.063	-14.500	-1318.063	335.063
25	-992	1099	-632	344	-26.138	-12.200	-1289.000	349.563
25.5	-1050	1179	-785	484	-27.863	-15.863	-1262.863	361.763
26	-1341	1471	-981	696	-35.150	-20.963	-1235.000	377.625
26.5	-1518	1627	-873	576	-39.313	-18.113	-1199.850	398.588
27	-1533	1667	-681	383	-40.000	-13.300	-1160.538	416.700
27.5	-1660	1769	-600	316	-42.863	-11.450	-1120.538	430.000
28	-1662	1793	-534	245	-43.188	-9.738	-1077.675	441.450
28.5	-1716	1835	-440	139	-44.388	-7.238	-1034.488	451.188
29	-1764	1886	-489	210	-45.625	-8.738	-990.100	458.425
29.5	-1727	1846	-533	254	-44.663	-9.838	-944.475	467.163
30	-1690	1818	-516	245	-43.850	-9.513	-899.813	477.000
30.5	-1674	1790	-386	100	-43.300	-6.075	-855.963	486.513
31	-1654	1791	-248	-45	-43.063	-2.538	-812.663	492.588
31.5	-1620	1727	-109	-204	-41.838	1.188	-769.600	495.125
32	-1564	1699	26	-308	-40.788	4.175	-727.763	493.938
32.5	-1609	1725	164	-457	-41.675	7.763	-686.975	489.763
33	-1706	1832	302	-583	-44.225	11.063	-645.300	482.000
33.5	-1858	1978	411	-700	-47.950	13.888	-601.075	470.938
34	-2020	2147	469	-752	-52.088	15.263	-553.125	457.050
34.5	-2068	2200	608	-880	-53.350	18.600	-501.038	441.788
35	-2011	2124	833	-1117	-51.688	24.375	-447.688	423.188
35.5	-1965	2097	1073	-1361	-50.775	30.425	-396.000	398.813
36	-1915	2030	1243	-1524	-49.313	34.588	-345.225	368.388
36.5	-1823	1954	1374	-1680	-47.213	37.925	-295.913	333.800
37	-1799	1907	1463	-1740	-46.325	40.038	-248.700	295.875
37.5	-1585	1704	1408	-1704	-41.113	38.900	-202.375	255.838
38	-1398	1529	1391	-1664	-36.588	38.188	-161.263	216.938
38.5	-1382	1498	1520	-1806	-36.000	41.575	-124.675	178.750
39	-1250	1370	1629	-1918	-32.750	44.338	-88.675	137.175
39.5	-1085	1203	1704	-1978	-28.600	46.025	-55.925	92.838
40	-1028	1158	1730	-2015	-27.325	46.813	-27.325	46.813
Reference Point (40.5 m)							0.000	0.000



48 Spencer St. Lebanon, N.H. 03766 USA

Model 6100-1M Inclinometer Calibration Report

Date of Calibration: October 29, 2010
Calibration Instruction: CI-6100 Inclinometer

Inclinometer S/N: 1032604
Technician: ER

Please Note:

Measured $40,000\sin\theta = (\text{Measured } 20,000\sin+\theta) - (\text{Measured } 20,000\sin-\theta)$
 System Accuracy = $((\text{Measured } 40,000\sin\theta) - (\text{Ideal } 40,000\sin\theta)) / 20,000 \times 100$

When using this probe in conjunction with a GK-603 Readout the Internal Bias may be entered in the Probe Configuration as the "A Axis Zero Shift" and the "B Axis Zero Shift". The Gage Factors may also be applied in the Probe Configuration.

When an Inclinometer Probe and a GK-603 are supplied together the Internal Biases and the Gage Factors are entered at the Geokon facility:

Inclinometer Probe S/N:	1032604
A Axis Zero Offset:	30
B Axis Zero Offset:	20
A Axis Gage Factor:	0.6268
B Axis Gage Factor:	0.6274

The instrument above was found to be in tolerance in all operating ranges.

Calibration Issued By: _____ Date: 11-4-10

QA Manager: _____ Date: 11-8-10

The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z-540-1

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Geokon UK
Contract: 2048

C. R. No.: 1032604
Model: 6100-1M
Revision Date: 08 November 2011
Recall Date: 08 November 2012

Authorised by: _____ (signature) _____



48 Spencer St. Lebanon, N.H. 03766 USA

Model 6100-1M Inclinometer Calibration Report

Date of Calibration: November 8, 2010
Calibration Instruction: CI-6100 Inclinometer

Inclinometer S/N: 1035333
Technician: ER

Please Note:

Measured $40,000\sin\theta = (\text{Measured } 20,000\sin+\theta) - (\text{Measured } 20,000\sin-\theta)$
 System Accuracy = $((\text{Measured } 40,000\sin\theta) - (\text{Ideal } 40,000\sin\theta) / 20,000) \times 100$

When using this probe in conjunction with a GK-603 Readout the Internal Bias may be entered in the Probe Configuration as the "A Axis Zero Shift" and the "B Axis Zero Shift". The Gage Factors may also be applied in the Probe Configuration.

When an Inclinometer Probe and a GK-603 are supplied together the Internal Biases and the Gage Factors are entered at the Geokon facility:

Inclinometer Probe S/N:	1035333
A Axis Zero Offset:	40
B Axis Zero Offset:	20
A Axis Gage Factor:	0.6258
B Axis Gage Factor:	0.6264

The instrument above was found to be in tolerance in all operating ranges.

Calibration Issued By: [Redacted]

Date: *November 08, 2010*

QA Manager: [Redacted]

Date: *November 08, 2010*

The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z-540-1

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Geokon UK
Contract: 2048

C. R. No.: 1035333
Model: 6100-1M
Revision Date: 08 November 2011
Recall Date: 08 November 2012

Authorised by: [Redacted] (signature) [Redacted]



BS EN ISO 9001:2008
FM 553710

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CALIBRATION CERTIFICATE

Instrument Type : **Biaxial Inclinometer System** Serial Number : **DI1244**
Instrument Range : **± 30 Degrees**

Calibration Data

Calibration Equipment : **Digital Rotary Table N° :21900871D**
Traceable to National Standards

Calibration Procedure : **O18 Section 10**

Date of Calibration : **4 January 2013**

Ambient Temperature : **21 °C**

Calibrated By : **J Harvey**

Calibration Results

A Position & Readings		B Positions & Readings	
Degree/mm	Axis A (mm)	Degree/mm	Axis B (mm)
30.00/250.00	250.04	30.00/250.01	250.05
10.00/86.83	86.85	10.00/86.83	86.84
5.00/43.57	43.62	5.00/43.57	43.59
0.00/-0.01	0.03	0.00/-0.01	0.02
-5.00/-43.58	-43.54	-5.00/-43.57	-43.53
-10.00/-86.83	-86.8	-10.00/-86.83	-86.79
-30.00/-250.01	-249.96	-30.00/-250.00	-249.96

The instrument detailed hereon has, as applicable, been tested and calibrated in accordance with procedures, which are part of our ISO9001:2008 Quality Management System, and unless otherwise indicated, performs within ± 0.1mm as specified. Thus, the instrument conforms in all respects to our relevant specifications and drawings.

Certified: 



Line Manager

BOREHOLES LOGS PIEZOMETERS

ID	C305-PV04201	
Depth (m)	26	
Response zone	25.5 to 26.5 m (London Clay)	
Depth (m)	Drill log (Description)	
G/L	T/lit	Made Ground
1.20	Firm / stiff brown silty mottled clay	
2.00	Firm grey silty clay	Aluvium
6.40	Mixed gravel and some grey sand	River Terrace Deposits
11.35	Stiff brown/ London Clay	London Clay
12.00	London Clay	
26.00	London Clay	
27.00	London Clay	

ID	C305-PV04202	
Depth (m)	26	
Response zone	25.5 to 26.5 m (London Clay)	
Depth (m)	Drill log (Description)	
G/L	T/lit	Made Ground
1.20	Clay / brick fill	
3.40	Aluvial clay	Aluvium
7.20	Gravels	River Terrace Deposits
10.00	London Clay	London Clay
26.00	London Clay	
27.00	London Clay	

ID	C305-PV04203	
Depth (m)	32	
Response zone	31.2 to 32.2 m (London Clay)	
Depth (m)	Drill log (Description)	
G/L	T/lit	Made Ground
1.20	Clay, brick fill	
1.80	Concrete border	
2.10	Clay. Brick fill	Aluvium
4.00	Aluvial Clay	
4.9	Gravels and water	
5.8	Aluvial clay	River Terrace Deposits
9.4	Gravels	
13	London Clay	London Clay
32.2	London Clay	

ID	C305-PV04204	
Depth (m)	31.5	
Response zone	31 to 32 m (London Clay)	
Depth (m)	Drill log (Description)	
G/L	T/lit	Made Ground
1.20	Firm black brown clay fill with some brick concrete	
2.80	Very soft brown clay fill with some brick	
4.10	Firm, black silty clay fill with some brick and timber	
7.20	Firm grey silty clay with organic	Aluvium
9.20	Mixed gravel with some grey sand	River Terrace Deposits
13.30	Stiff brown/ London Clay	London Clay
31.50	London Clay	
32.50	London Clay	

ID	C305-PV04205	
Depth (m)	32	
Response zone	31 to 32 m (London Clay)	
Depth (m)	Drill log (Description)	
G/L	T/lit	Made Ground
1.20	Brick concrete/Rubble fill	
2.80	Firm black stoney/clay brick fill	
3.80	Firm grey silty clay	Aluvium
9.50	Mixed gravel and some grey sand	River Terrace Deposits
16.35	Stiff brown/grey / London Clay	London Clay
32.00	London Clay	

ID	C305-PV04206	
Depth (m)	31.9	
Response zone	31 to 32 m (London Clay)	
Depth (m)	Drill log (Description)	
G/L	Brick concrete/Rubble fill	Made Ground
1.10	Brick concrete/Black stoney clay fill	
2.50	Bronw clayey/ Sand and gravel fill	
3.60	Mixed gravel fill	Aluvium
4.00	Firm grey/Silty clay	River Terrace Deposits
9.40	Mixed gravel with some grey sand	
16.40	Stiff brown	London Clay
17.00	London Clay	
32.00	London Clay	

BOREHOLES LOGS ROD EXTENSOMETERS

ID	C305-XR04010	
Depth (m)	42	
Depth (m)	Drill log (Description)	
G/L	T/lit	
1.20	Clay / brick fill	Made Ground
1.70-2	Concrete	
4.20	Aluvial clay	Aluvium
9.70	Gravels	River Terrace Deposits
16.40	London Clay	London Clay
38.50	Grey clay / shells	Harwich Formation
38.9	Pebble beds and water	
40.2	Grey sand	Lambeth Group
42.00	Grey sand	

ID	C305-XR04020	
Depth (m)	42	
Depth (m)	Drill log (Description)	
G/L	T/lit	
1.20	Made ground brck and clay fill	Made Ground
1.70-2	Concrete	
3.80	Aluvial clay	Aluvium
9.60	Gravels/water	River Terrace Deposits
16.50	London Clay	London Clay
24.60-24.90	Clay stone	
38.20	Grey clay / shells	Harwich Formation
38.5	Pebble beds	
39.2	Grey sand	Lambeth Group
42.00		

ID	C305-XR04030	
Depth (m)	27	
Depth (m)	Drill log (Description)	
G/L	T/lit	
0.20	Mix fill brick, concrete, gravel , clay	Made Ground
4.80	Silty clay with organic material	
7.60	Gravels	River Terrace Deposits
11.60	London Clay	London Clay
27.00	London Clay	

ID	C305-XR04040	
Depth (m)	27	
Depth (m)	Drill log (Description)	
G/L	T/lit	
1.20	Made ground clay + brick fill	Made Ground
2.90	Aluvial clay	
6.90	Gravels/water	River Terrace Deposits
10.00	London Clay	London Clay
27.00	London Clay	

ID	C305-XR04050	
Depth (m)	41.5	
Depth (m)	Drill log (Description)	
G/L	T/lit	Made Ground
1.20	Soft black clay fill with some brick and concrete	
4.20	Gravel fill with some grey silt fill	Aluvium
7.05	firm grey silty clay	
9.20	Mixed gravel and some grey sand	River Terrace Deposits
13.30	Stiff brown London Clay	London Clay
37.15	Grey sand with shells and black pebbles	Harwich Formation
38.40	Dense grey sand	
41.5		

ID	C305-XR04060	
Depth (m)	42	
Depth (m)	Drill log (Description)	
G/L	T/lit	Made Ground
0.50	Brick concrete fill	
2.00	Black gravel brick sand clay fill	
5.00	Grey soft clay and gravel fill	Aluvium
6.00	Chalk clay fill	
7.00	Soft grey clay	River Terrace Deposits
9.00	Gravels	
12.80	London clay	London Clay
14 60-14.90	Clay Stones	
14.9	London Clay	
36.5	Clay / shells	Harwich Formation
36.9	Pebble beds	
37.9	Grey sand	
42	Grey sand	

APPENDIX C:

MINUTES CLOSE OUT MEETING AREA 4

Learning Legacy Document



I&M Close Out Meeting

Date & Time		15/07/2015 09:00		
Meeting No.		1		
The purpose of this document is to record agreement to cease monitoring long term monitoring and decommission based on review of the data against the requirements. Agreement from this meeting is then considered acceptance from all parties that the Close Out Report can then be produced based on the data shown and this will be acceptable to the Project Manager.				
Attendees:				
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; height: 80px; background-color: black;"></div> <div style="width: 45%; height: 80px; background-color: black;"></div> </div>				
Data Reviewed				
Monitoring References	Location	Settlement rate	Cease Monitoring?	Decommission/ prepare report?
Levelling Points Area 4 Limmo to Canary Wharf Station				
LP045100-LP045147	Area 4 - River Lea River West Bank Wall (4A)	74% at 2mm/year 80% at 3mm/year	Yes	Yes
LP040101-LP040124	Area 4 - Bridge Court	0% at 2mm/year 0% at 3mm/year	Yes - CP13/14	Yes
LP040201-LP040226	Area 4 - Keel Court	40% at 2mm/year 68% at 3mm/year	Yes - CP13/14	Yes
LP040301-LP040330	Area 4 - John Smith Mews	73% at 2mm/year 83% at 3mm/year	Yes - CP13/14	Yes
LP040422-LP040431	Area 4 - Reuters Car Park	90% at 2mm/year 90% at 3mm/year		
LP041301-LP041328	Area 4 - Poplar Dock	68% at 2mm/year 82% at 3mm/year		
LP041401-LP041425	Area 4 - Boardwalk Place	100% at 2mm/year 100% at 3mm/year		
LP041501-LP041536	Area 4 - Trafalgar Way	36% at 2mm/year 44% at 3mm/year		
LP042301-LP042327	Area 4 - Billingsgate Market	96% at 2mm/year 100% at 3mm/year		
LP04472-LP04477	Area 4 - Lower Lea Crossing	50% at 2mm/year 83% at 3mm/year	Yes - CP14	Yes
LP04301-LP04310	Area 4 - Bow Creek River Wall	90% at 2mm/year 100% at 3mm/year	Yes - CP14	Yes
LP043201-LP043210	Area 4 - Orchard Place	20% at 2mm/year 20% at 3mm/year	Yes - temporary studs due to stoppage	Yes
LP042050-LP042078	Area 4 - East India Dock	79% at 2mm/year 90% at 3mm/year	Yes - CP13/14	Yes
LP040801-LP040805	Area 4 - Prestons Road	100% at 2mm/year 100% at 3mm/year		
LP040201-LP040216	Area 4 - Aspen Way Underpass	100% at 2mm/year 100% at 3mm/year		
LP041701-LP041719	Area 4 - Prestons Road	95% at 2mm/year 95% at 3mm/year		
LP042001-LP042007	Area 4 - East India Dock	100% at 2mm/year 100% at 3mm/year	Yes - CP13/14	Yes
LP042201-LP042211	Area 4 - Billingsgate Market	64% at 2mm/year 82% at 3mm/year		
LP042401-LP042440	Area 4 - Billingsgate Market	67% at 2mm/year 78% at 3mm/year		
LP43201-LP43227	Area 4 - Blackwall Tunnel NB	89% at 2mm/year 100% at 3mm/year		
LP04478-LP04483	Area 4 - Lower Lea Crossing	??% at 2mm/year ??% at 3mm/year		
LP045301-LP045321		52% at 2mm/year		
LP045201-LP045212	Area 4 - Orchard Place (4B)	59% at 3mm/year	Yes	Yes

LPO41241-LPO41249	Area 4 - Poplar Dock	67% at 2mm/year 100% at 3mm/year		
Sockets Area 4 Limmo to Canary Wharf Station				
LB04301-LB04312	Area 4 - Orchard Place	83% at 2mm/year 92% at 3mm/year	Yes	Yes
LB040101-LB040110	Area 4 - Sail Court	100% at 2mm/year 100% at 3mm/year	Yes - CP13/CP14	Yes
LB040201-LB040211	Area 4 - Bridge/Keel Court	100% at 2mm/year 100% at 3mm/year	Yes - CP13/CP14	Yes
LB040301-LB040304	Area 4 - Sexton Court	75% at 2mm/year 100% at 3mm/year	Yes - CP13/14	Yes
LB040401-LB040412	Area 4 - John Smith Mews	80% at 2mm/year 90% at 3mm/year	Yes - CP13/14	Yes
LB040501-LB040506	Area 4 - Proton/Neutron Towers	100% at 2mm/year 100% at 3mm/year	Yes - CP13/14	Yes
LB040701-LB040706	Area 4 - Billingsgate Market	100% at 2mm/year 100% at 3mm/year		
LB041101-LB041110	Area 4 - Boardwalk Place	20% at 2mm/year 50% at 3mm/year		
LB041201-LB041210	Area 4 - Boardwalk Place	20% at 2mm/year 60% at 3mm/year		
LB041301-LB041308	Area 4 - Boardwalk Place	100% at 2mm/year 100% at 3mm/year		
LB041401-LB041410	Area 4 - Boardwalk Place	90% at 2mm/year 100% at 3mm/year		
LB044101-LB044105	Area 4 - Blackwall Tunnel Ventilation Tower (SB)	80% at 2mm/year 100% at 3mm/year		
Notes				
<p>-Cells in yellow indicate data review needs amending. <i>to included for rounding.</i></p> <p>-Limmo dewatering switch on 04/11/13, CP13 dewatering switch on 26/11/13.</p> <p>* -include CP13/CP14 data to demonstrate area is stable after last TBIM readings in close out reports affected by dewatering works. Next meeting tomorrow after CTC.</p>				
Sign off				
DSJV	Gecisa	Crossrail	G122	

I&M Close Out Template - 13th July 2015



I&M Close Out Meeting

Date & Time		16/07/2015 13:00		
Meeting No.		2		
The purpose of this document is to record agreement to cease monitoring long term monitoring and decommission based on review of the data against the requirements. Agreement from this meeting is then considered acceptance from all parties that the Close Out Report can then be produced based on the data shown and this will be acceptable to the Project Manager.				
Attendees:				
Data Reviewed				
Monitoring References	Location	Settlement rate	Cease Monitoring?	Decommission/ prepare report?
Levelling Points Area 4 Limmo to Canary Wharf Station				
LP040422-LP040431	Area 4 - Reuters Car Park	90% at 2mm/year 90% at 3mm/year	Yes - CP13	Yes - CP13
LP041301-LP041328	Area 4 - Poplar Dock (4L)	68% at 2mm/year 82% at 3mm/year	Yes - CP13	Yes - CP13 + readings in June '15
LP041401-LP041425	Area 4 - Boardwalk Place	100% at 2mm/year 100% at 3mm/year	Yes - CP13	Yes - CP13
LP041501-LP041536	Area 4 - Trafalgar Way	36% at 2mm/year 44% at 3mm/year	Yes - CP13	Yes - CP13
LP042301-LP042327	Area 4 - Billingsgate Market	96% at 2mm/year 100% at 3mm/year	Yes	Yes
LP040801-LP040805	Area 4 - Prestons Road	100% at 2mm/year 100% at 3mm/year	Yes	Yes
LP040201-LP040216	Area 4 - Aspen Way Underpass	100% at 2mm/year 100% at 3mm/year	Yes	Yes
LP041701-LP041719	Area 4 - Prestons Road	95% at 2mm/year 95% at 3mm/year	Yes	Yes
LP042201-LP042211	Area 4 - Billingsgate Market	64% at 2mm/year 82% at 3mm/year	Yes	Yes
LP042401-LP042440	Area 4 - Billingsgate Market	67% at 2mm/year 78% at 3mm/year	Yes	Yes
LP43201-LP43227	Area 4 - Blackwall Tunnel NB	89% at 2mm/year 100% at 3mm/year	No - Review with CP13 post.	Post CP13
LP04478-LP04483	Area 4 - Lower Lea Crossing	??% at 2mm/year ??% at 3mm/year	Yes	Yes
LP041241-LP041249	Area 4 - Poplar Dock	67% at 2mm/year 100% at 3mm/year	Yes - CP13	Yes
Sockets Area 4 Limmo to Canary Wharf Station				
LB040701-LB040706	Area 4 - Billingsgate Market	100% at 2mm/year 100% at 3mm/year	Yes	Yes
LB041101-LB041110	Area 4 - Boardwalk Place	20% at 2mm/year 50% at 3mm/year	Yes - 4L	Yes
LB041201-LB041210	Area 4 - Boardwalk Place	20% at 2mm/year 60% at 3mm/year	Yes - 4L	Yes
LB041301-LB041308	Area 4 - Boardwalk Place	100% at 2mm/year 100% at 3mm/year	Yes - 4L	Yes
LB041401-LB041410	Area 4 - Boardwalk Place	90% at 2mm/year 100% at 3mm/year	Yes - 4L	Yes
LB044101-LB044105	Area 4 - Blackwall Tunnel Ventilation Tower (SB)	80% at 2mm/year 100% at 3mm/year	No - Review with CP13 post.	Post CP13
Notes				

-Cells in yellow indicate data review needs amending.

-Limmo dewatering switch on 04/11/13, CP13 dewatering switch on 26/11/13.

* -For CP dewatering effects plot representative points from CP monitoring alongside data on same graph for comparison.

Sign off

DSJV	Geocisal	Crosstail	C122
[Redacted]	[Redacted]	[Redacted]	[Redacted]

I&M Close Out Template - 13th July 2015

Learning Legacy Document