

Our Ref: DV/BC/J12093(A)

21st November 2016

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For the attention of Mr T Purchase

Dear Tom,

Re: Kidderpore Avenue, Impact of the Proposed Basement Construction on the Thames Water Utility Pipe in terms of Ground Movements.

We write further to the comments issued on 14/11/2016 by Thames Water in relation to our assessment dated 9/11/2016 of the impact of the proposed construction on the Thames Water Utilities Limited trunk main located in Croft Way close to the south eastern boundary of the site. This letter considers the comments given, as reproduced below, and also provides the necessary information and data requested.

Section 1.2.1

- a. **TW Comment:** "Please provide the reference/published data to support the modification to the CIRIA C580 ground movement curves as a result of the wall installation."

Response: We would refer the reader to various past Ground Movement Reports (which can be viewed on the internet and referenced below at the end of this letter) by the Geotechnical Consulting Group (GCG), a highly respected Company of Geotechnical Specialists. Within these reports a similar method of estimating pile installation movements are adopted.

Assuming that good working practice is adopted, and on the basis of the above review, the current view (which has been adopted in our GMA), is that horizontal ground movements associated with pile installation are now considered overly conservative. They are much lower than indicated in Figure 2.8 (a) of CIRIA C580 and, horizontal movements associated with pile installation can be essentially ignored. In addition vertical movements can be assumed to be limited to 0.025% of the pile length, and extending out no more than 1.5 times the pile length from the piled wall.

Section 1.3

- a. **TW Comment:** "Please provide the PDISP input/output sheet for reference."



Response: Where applicable the input/output sheets for PDISP are given within the attached appendices (Appendix A, D and E).

b, c, d & e. TW Comment: In summary these comments were related to the approach adopted by XDISP and that in our analysis the possible beneficial effects of axial compressive and tensile strains to reduce flexural tensile and compressive strains was used. A series of criteria for calculating the combined tensile and compressive strains were also given. In addition a comment was given in relation to the use of strain reduction factors on axial tensile strains but not axial compressive strains. A request was also made for the following plots.

1. Resultant flexural displacement profiles (based on lateral and vertical displacements)
2. Curvature Profile
3. Axial and Flexural strain profiles
4. Combined tensile and compressive strain profiles

Response: We have now revised our analysis to exclude the "beneficial effects" of axial compressive and tensile strains to reduce flexural tensile and compressive strains. In our previous analysis a strain reduction factor of 0.2 was only applied to the axial tensile strain. We have now also applied a strain reduction factor of 0.2 to axial compressive strains and have carried out a series of revised analyses for the various cases considered in our original analysis (Appendices A-E) now referred to as Cases 1A to 5A. The requested plots are also included within Appendices A-E for each case considered.

Referring to the various plots presented these were generated using the direct output data from XDISP for the various cases considered. As noted in our previous letter report, in addition to the piled wall in the area of the proposed sunken courtyard area in locations where discrete piles are present, these were conservatively modelled as piled walls.

In total a series of four piled walls were used as shown in Figure C1 (Appendix A). It is noted on the appended plots that they comprise a series of "peaks and troughs". When using XDISP, the movements for each piled wall arising from pile installation and excavation in front of the wall are summated which in practice is unlikely to occur and a "smoother" ground movement behaviour will occur. Referring to the provided plots the noted peaks and troughs typically coincide with the start and end points for each wall and are to some degree a reflection of XDISP summating the movements. Accordingly the predicted peak displacements, strains etc are considered to be conservative estimates.

For the purpose of the reader reviewing the plots, from the start of Displacement Line1 the distance along the "x axis" for the approximate "start" and "end" points for each piled wall and along the route of the trunk main are as follows:

Piled Wall	Approximate Start Point (m)	Approximate End Point (m)
Piled Wall 1	7.4	21.2
Piled Wall 2	21.2	41.3
Piled Wall 3	41.3	70.5
Piled Wall 4	70.5	81.5

Please note the above distances are not related to the y (m) axis on Figure C1.

A summary of the results of the revised analysis are given below:

Case 1A-Refer Appendix A

"Demolition of the Existing Lord Cameron Building and Rosalind Franklin Buildings and soil unloading movements."

A summary of the maximum values of tensile strain, compressive strain, joint rotation, and joint pull out are summarised below:

Assessment Criteria		Predicted
Combined Tensile Strain	100µe	7.914 µe
Combined Compressive Strain	1200 µe	7.912 µe
Joint Rotation	0.1°	0.0054°
Joint Pull Out	3mm	0.0553mm

No exceedances of the above assessment criteria were noted.

Case 2A- Refer Appendix B

"Combined effects of soil unloading from demolition of the building and installation of piled foundations and piled walls located closest to the Thames Water Pipe."

A summary of the maximum values of tensile strain, compressive strain, joint rotation, and joint pull out are summarised below:

Assessment Criteria		Predicted
Combined Tensile Strain	100µe	90.338 µe
Combined Compressive Strain	1200 µe	90.327 µe
Joint Rotation	0.1°	0.0535°
Joint Pull Out	3mm	0.554mm

No exceedances of the above assessment criteria were noted.

Case 3A- Refer Appendix C

"Combined effects of soil unloading from demolition of the building, installation of piled foundations and piled walls located closest to the Thames Water Pipe and excavation in front of the piled walls."

As note in our original report dated 9/11/2016 during the initial analysis it was assumed that the wall in the area of the sunken courtyard would be a low stiffness (cantilevered) wall. However in the subsequent analysis tensile strains of >100µe were predicted in the pipe in several pipe locations. Accordingly it was necessary to revise the model to a high stiffness (propped) retaining wall conditions for all walls.

A summary of the maximum values of tensile strain, compressive strain, joint rotation, and joint pull out are summarised below:

Assessment Criteria		Predicted
Combined Tensile Strain	100µe	96.372 µe
Combined Compressive Strain	1200 µe	116.299µe
Joint Rotation	0.1°	0.0570°
Joint Pull Out	3mm	0.793mm

No exceedances of the above assessment criteria were noted.

Case 4A- Refer Appendix D

As per Case 3A above together with reloading of the soils and soil unloading due excavations associated with the construction of the proposed Lord Cameron Building and Rosalind Franklin Buildings.

A summary of the maximum values of tensile strain, compressive strain, joint rotation, and joint pull out are summarised below:

Assessment Criteria		Predicted
Combined Tensile Strain	100µe	100.922µe*
Combined Compressive Strain	1200 µe	108.744 µe
Joint Rotation	0.1°	0.0604°
Joint Pull Out	3mm	0.822mm

*Exceedance of the above assessment criteria noted.

Case 5A- Refer Appendix E

As per Case 4A above but for the long-term drained condition.

A summary of the maximum values of tensile strain, compressive strain, joint rotation, and joint pull out are summarised below:

Assessment Criteria		Predicted
Combined Tensile Strain	100µe	97.679 µe
Combined Compressive Strain	1200 µe	105.511 µe
Joint Rotation	0.1°	0.05814°
Joint Pull Out	3mm	0.810mm

No exceedances of the above assessment criteria were noted.

1.1 Comments

In summary and with the exception of one exceedance (Case 4A), no other exceedances are indicated. As noted previously the method of analyses adopted by using a series of piled walls and the summation of movements that XDISP adopts is considered to be a conservative estimate of the situation. It is noted that where the single exceedance of combined tensile strain is indicated (100.922µe versus 100 µe) this coincided with the start and end points of Piled Walls 1 and 2 and it is considered that in practice the combined tensile strain will be <100 µe.

If you have any further queries or we can be of further assistance, please do not hesitate to contact us.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'D. Vooght', with a stylized, cursive script.

D Vooght
For and on behalf of
Southern Testing Laboratories Limited
DDI: 01 342 333130

References Used:

Ground Movement Report by the Geotechnical Consultancy Group: 16 Lansdown Walk W11, Dated 22 September 2014

Ground Movement Report by the Geotechnical Consultancy Group; 5 Cresswell Place SW1, Dated 22 September 2012

APPENDIX A

Case 1A-Figures, XDISP and PDISP Outputs

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Kidderpore
Demolition Unload (Undrained)
Output

Analysis Options

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: 0.00 [m OD]
Displacements at area centroids calculated.

Soil Profiles Soil Profile 1

Layer	Level at top	Number of intermediate displacement levels	Youngs Modulus	Poissons ratio	Non-linear curve	
	[mOD]		Top [kN/m ²]	Btm [kN/m ²]		
1	92.000	7	21250	21250	0.50000	None
2	85.000	90	36550	181050	0.50000	None

Soil Zones

Zone	Name	X coordinates min	X coordinates max	Y coordinates min	Y coordinates max	Profile
1	1	-30.000	30.000	-15.000	90.000	Soil Profile 1

Load Data

Load ref.	Name	Shape	Orientation of Plane	Centre of load (Global)			Load position local x or from	Width x Radius	Length y	Polygon Coordinates	Rectangle of tolerance	Number	Load value	
				X	Y	Z (level)							Normal (local z)	Tangential (local x)
1	Unload A	Polygonal	Horizontal	N/A	N/A	89.000	N/A	N/A	N/A	(0,0) (6.3,0) (6.3,-1.2) (20.2,-1.2) (17.2,9.4) (14.7,9.4) (14.7,35.4) (12.5,35.4) (12.5,40.7) (-1.88,38.5) (-1.88,26.9) (0,26.9) (0,0)	10.000	10	-48.000	N/A
2	Unload B	Polygonal	Horizontal	N/A	N/A	90.100	N/A	N/A	N/A	(-5.34,38) (3.99,39.5) (3.99,71.8) (-16.4,71.8) (-16.4,59.9) (-5.34,59.9) (-5.34,38)	10.000	2	-48.000	N/A
3	Load C (Proposed)	Polygonal	Horizontal	N/A	N/A	89.050	N/A	N/A	N/A	(-3,0) (12.2,0) (12.2,-2) (20.2,-2) (18,11.5) (15,11.5) (15,30.6) (-3,30.6) (-3,24) (0,24) (0,10.2) (-3,10.2) (-3,0)	10.000	5	0.0	N/A
4	Load D (Proposed)	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(0,30.6) (12,30.6) (12,54.2) (13.4,54.2) (13.4,60) (5.4,60) (5.4,57.8) (-1.2,57.8) (-1.2,53.8) (-10.4,53.8) (-10.4,43.6) (-8,43.6) (-8,33.6) (-2.2,33.6) (-2.2,30.6) (0,30.6)	10.000	6	0.0	N/A
5	Load E (Proposed)	Polygonal	Horizontal	N/A	N/A	86.795	N/A	N/A	N/A	(-13,53.8) (-1.2,57.8) (-1.2,57.8) (5.4,57.8) (5.4,71.8) (-13,71.8) (-13,53.8)	10.000	2	0.0	N/A
6	Load F (Proposed)	Polygonal	Horizontal	N/A	N/A	91.125	N/A	N/A	N/A	(5.4,60) (13,60) (13,69) (5.4,69) (5.4,60)	10.000	1	0.0	N/A

Polygonal Loads' Rectangles

No.	Centre of load X	Centre of load Y	local x from global X	Width x	Depth y
Load 1 : Unload A (Edge 1 optimal)					
1	3.1500	19.628	0.0	6.3000	39.256
2	9.4170	19.498	0.0	6.2340	41.397
3	13.617	17.100	0.0	2.1660	36.600
4	15.965	4.1000	0.0	2.5300	10.600
5	17.527	3.5700	0.0	0.59400	9.5400
6	18.121	2.5100	0.0	0.59400	7.4200
7	18.715	1.4500	0.0	0.59400	5.3000
8	19.309	0.39000	0.0	0.59400	3.1800
9	19.903	-0.67000	0.0	0.59400	1.0600
10	-0.94000	32.771	0.0	1.8800	11.741
Load 2 : Unload B (Edge 3 optimal)					
1	-0.67650	55.275	-180.00	9.3330	33.050
2	-10.863	65.842	-180.00	11.039	11.915
Load 3 : Load C (Proposed) (Edge 2 optimal)					
1	16.119	-1.0000	-90.000	2.0000	7.8370
2	6.0000	27.300	-90.000	6.6000	18.000
3	7.5000	17.750	-90.000	12.500	15.000
4	9.0530	10.950	-90.000	1.3000	18.106
5	8.0215	5.1000	-90.000	10.200	22.043
Load 4 : Load D (Proposed) (Edge 2 optimal)					
1	4.9000	32.100	90.000	3.0000	14.200
2	2.0000	38.600	90.000	10.000	20.000
3	0.80000	48.700	90.000	10.200	22.400
4	5.4000	54.000	90.000	0.40000	13.200
5	6.1000	56.000	90.000	3.6000	14.600
6	9.4000	58.900	90.000	2.2000	8.0000
Load 5 : Load E (Proposed) (Edge 1 optimal)					
1	-7.1000	62.800	0.0	11.800	18.000
2	2.1000	64.800	0.0	6.6000	14.000
Load 6 : Load F (Proposed) (Edge 1 optimal)					
1	9.2000	64.500	0.0	7.6000	9.0000

Displacement Data

Ref.	Type	Name	Direction of Extrusion	Line/Line for extrusion	First point X	First point Y	Second point X	Second point Y	No. of intrvl across extrusion/line	Extrusion Depth	No. of intrvl along extrusion	Calculate	Show Detailed results	
1	Grid	Grid 1	Global Y		-20.000	-10.000	89.000	30.000	N/A	89.000	40	95.000	80	Yes No
2	Line	Line 1	N/A		26.600	-9.400	90.150	18.400	21.800	90.150	10	N/A	N/A	Yes No
3	Line	Line 2	N/A		18.400	21.800	90.150	15.000	84.600	90.150	21	N/A	N/A	Yes No

RESULTS FOR GRIDS

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Horizontal rigid boundary level: 0.00 [m OD]

The maximum displacement difference between Boussinesq method (-18.537mm) and Mindlin method (-13.807mm) occurs at point X=6.2500m Y=26.813m Level 89.000mOD and is 4.7305mm

Name	X [m]	Y [m]	Z [Level]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
Unload A	7.68414	18.65464	89.00000	-18.439	88.600	-47.998	-111.31	-769.04E-6
Unload B	-3.74626	58.43207	90.10000	-16.718	89.675	-47.846	-105.55	-893.80E-6
Load C (Proposed)	7.69615	13.92689	89.05000	-18.285	88.645	-47.998	-111.68	-760.33E-6



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
Load D (Proposed)	2.38983	44.79169	87.98500	-13.851	87.488	-38.655	-66.215	-0.0011706
Load E (Proposed)	-4.31102	63.40630	86.79500	-14.226	86.346	-44.603	-73.034	-0.0014300
Load F (Proposed)	9.20000	64.50000	91.12500	-3.5282	90.688	0.0	0.0	0.0
Grid 1	-20.00000	-10.00000	89.00000	-0.45760	88.600	-41.132E-6	-0.12763	3.0002E-6
	-20.00000	-8.81250	89.00000	-0.49019	88.600	-45.237E-6	-0.13522	3.1785E-6
	-20.00000	-7.62500	89.00000	-0.52382	88.600	-49.753E-6	-0.14318	3.3655E-6
	-20.00000	-6.43750	89.00000	-0.55841	88.600	-54.713E-6	-0.15151	3.5611E-6
	-20.00000	-5.25000	89.00000	-0.59383	88.600	-60.149E-6	-0.16019	3.7650E-6
	-20.00000	-4.06250	89.00000	-0.62995	88.600	-66.094E-6	-0.16921	3.9767E-6
	-20.00000	-2.87500	89.00000	-0.66662	88.600	-72.590E-6	-0.17853	4.1955E-6
	-20.00000	-1.68750	89.00000	-0.70369	88.600	-79.676E-6	-0.18813	4.4209E-6
	-20.00000	-0.50000	89.00000	-0.74098	88.600	-87.406E-6	-0.19798	4.6522E-6
	-20.00000	0.68750	89.00000	-0.77832	88.600	-95.840E-6	-0.20806	4.8897E-6
	-20.00000	1.87500	89.00000	-0.81556	88.600	-105.06E-6	-0.21833	5.1298E-6
	-20.00000	3.06250	89.00000	-0.85251	88.600	-115.15E-6	-0.22878	5.3749E-6
	-20.00000	4.25000	89.00000	-0.88904	88.600	-126.25E-6	-0.23939	5.6237E-6
	-20.00000	5.43750	89.00000	-0.92501	88.600	-138.51E-6	-0.25015	5.8761E-6
	-20.00000	6.62500	89.00000	-0.96048	88.600	-152.12E-6	-0.26108	6.1322E-6
	-20.00000	7.81250	89.00000	-0.99484	88.600	-167.31E-6	-0.27218	6.3924E-6
	-20.00000	9.00000	89.00000	-1.0285	88.600	-184.38E-6	-0.28349	6.6574E-6
	-20.00000	10.18750	89.00000	-1.0614	88.600	-203.66E-6	-0.29505	6.9280E-6
	-20.00000	11.37500	89.00000	-1.0933	88.600	-225.58E-6	-0.30692	7.2057E-6
	-20.00000	12.56250	89.00000	-1.1243	88.600	-250.52E-6	-0.31916	7.4917E-6
	-20.00000	13.75000	89.00000	-1.1544	88.600	-279.45E-6	-0.33187	7.7889E-6
	-20.00000	14.93750	89.00000	-1.1836	88.600	-312.70E-6	-0.34512	8.0984E-6
	-20.00000	16.12500	89.00000	-1.2121	88.600	-351.27E-6	-0.35904	8.4232E-6
	-20.00000	17.31250	89.00000	-1.2398	88.600	-396.15E-6	-0.37374	8.7658E-6
	-20.00000	18.50000	89.00000	-1.2669	88.600	-448.56E-6	-0.38935	9.1274E-6
	-20.00000	19.68750	89.00000	-1.2933	88.600	-509.91E-6	-0.40601	9.5172E-6
	-20.00000	20.87500	89.00000	-1.3192	88.600	-581.88E-6	-0.42389	9.9328E-6
	-20.00000	22.06250	89.00000	-1.3448	88.600	-666.44E-6	-0.44314	10.380E-6
	-20.00000	23.25000	89.00000	-1.3699	88.600	-765.86E-6	-0.46395	10.862E-6
	-20.00000	24.43750	89.00000	-1.3948	88.600	-882.76E-6	-0.48649	11.384E-6
	-20.00000	25.62500	89.00000	-1.4196	88.600	-1001.02E-6	-0.51094	11.950E-6
	-20.00000	26.81250	89.00000	-1.4442	88.600	-1131.81E-6	-0.53751	12.564E-6
	-20.00000	28.00000	89.00000	-1.4689	88.600	-1275.16E-6	-0.56638	13.230E-6
	-20.00000	29.18750	89.00000	-1.4936	88.600	-1432.10E-6	-0.59773	13.952E-6
	-20.00000	30.37500	89.00000	-1.5186	88.600	-1603.67E-6	-0.63170	14.734E-6
	-20.00000	31.56250	89.00000	-1.5437	88.600	-1790.81E-6	-0.66843	15.577E-6
	-20.00000	32.75000	89.00000	-1.5692	88.600	-1994.46E-6	-0.70801	16.485E-6
	-20.00000	33.93750	89.00000	-1.5952	88.600	-2216.66E-6	-0.75046	17.458E-6
	-20.00000	35.12500	89.00000	-1.6216	88.600	-2458.45E-6	-0.79577	18.495E-6
	-20.00000	36.31250	89.00000	-1.6485	88.600	-2821.76E-6	-0.84388	19.595E-6
	-20.00000	37.50000	89.00000	-1.6761	88.600	-3307.63E-6	-0.89469	20.756E-6
	-20.00000	38.68750	89.00000	-1.7045	88.600	-3926.10E-6	-0.94813	21.976E-6
	-20.00000	39.87500	89.00000	-1.7337	88.600	-4688.22E-6	-1.00442	23.257E-6
	-20.00000	41.06250	89.00000	-1.7638	88.600	-5605.05E-6	-1.06375	24.600E-6
	-20.00000	42.25000	89.00000	-1.7957	88.600	-6687.66E-6	-1.12631	26.015E-6
	-20.00000	43.43750	89.00000	-1.8292	88.600	-7947.01E-6	-1.19120	27.517E-6
	-20.00000	44.62500	89.00000	-1.8648	88.600	-9394.16E-6	-1.26199	29.132E-6
	-20.00000	45.81250	89.00000	-1.9033	88.600	-11040.16E-6	-1.33997	30.896E-6
	-20.00000	47.00000	89.00000	-1.9436	88.600	-12896.06E-6	-1.42567	32.864E-6
	-20.00000	48.18750	89.00000	-1.9925	88.600	-14972.81E-6	-1.52064	35.108E-6
	-20.00000	49.37500	89.00000	-2.0454	88.600	-17380.36E-6	-1.62648	37.729E-6
	-20.00000	50.56250	89.00000	-2.1059	88.600	-20128.66E-6	-1.74566	40.664E-6
	-20.00000	51.75000	89.00000	-2.1760	88.600	-24227.66E-6	-1.96122	44.996E-6
	-20.00000	52.93750	89.00000	-2.2478	88.600	-29687.31E-6	-2.21385	49.849E-6
	-20.00000	54.12500	89.00000	-2.3545	88.600	-36617.56E-6	-2.47200	55.498E-6
	-20.00000	55.31250	89.00000	-2.4691	88.600	-45137.36E-6	-2.8508	63.161E-6
	-20.00000	56.50000	89.00000	-2.6049	88.600	-55459.66E-6	-3.3518	72.824E-6
	-20.00000	57.68750	89.00000	-2.7638	88.600	-68804.41E-6	-4.0052	84.637E-6
	-20.00000	58.87500	89.00000	-2.9480	88.600	-85500.56E-6	-4.8137	98.193E-6
	-20.00000	60.06250	89.00000	-3.1259	88.600	-105997.06E-6	-5.7108	112.40E-6
	-20.00000	61.25000	89.00000	-3.2930	88.600	-130742.26E-6	-6.5595	125.81E-6
	-20.00000	62.43750	89.00000	-3.4219	88.600	-160147.31E-6	-7.2359	136.99E-6
	-20.00000	63.62500	89.00000	-3.5014	88.600	-194622.16E-6	-7.6917	144.91E-6
	-20.00000	64.81250	89.00000	-3.5285	88.600	-245466.86E-6	-8.3285	149.18E-6
	-20.00000	66.00000	89.00000	-3.5031	88.600	-314277.36E-6	-9.9684	149.74E-6
	-20.00000	67.18750	89.00000	-3.4257	88.600	-403526.86E-6	-11.8101	146.63E-6
	-20.00000	68.37500	89.00000	-3.2962	88.600	-515152.36E-6	-14.4475	139.83E-6
	-20.00000	69.56250	89.00000	-3.1156	88.600	-650446.86E-6	-18.8659	129.46E-6
	-20.00000	70.75000	89.00000	-2.8891	88.600	-819713.36E-6	-24.0731	116.09E-6
	-20.00000	71.93750	89.00000	-2.6313	88.600	-1021166.86E-6	-31.333	100.90E-6
	-20.00000	73.12500	89.00000	-2.3654	88.600	-1266888.36E-6	-4.1895	85.385E-6
	-20.00000	74.31250	89.00000	-2.1128	88.600	-156129.86E-6	-3.3642	70.949E-6
	-20.00000	75.50000	89.00000	-1.8845	88.600	-2011665.86E-6	-2.7027	58.534E-6
	-20.00000	76.68750	89.00000	-1.6827	88.600	-2641516.36E-6	-2.1916	48.379E-6
	-20.00000	77.87500	89.00000	-1.5052	88.600	-3492942.86E-6	-1.7992	40.256E-6
	-20.00000	79.06250	89.00000	-1.3490	88.600	-4601985.06E-6	-1.4956	33.789E-6
	-20.00000	80.25000	89.00000	-1.2110	88.600	-5993824.56E-6	-1.2577	28.618E-6
	-20.00000	81.43750	89.00000	-1.0885	88.600	-7709909.06E-6	-1.0688	24.449E-6
	-20.00000	82.62500	89.00000	-0.9756	88.600	-9802655.56E-6	-0.8765	21.058E-6
	-20.00000	83.81250	89.00000	-0.8822	88.600	-12324446.06E-6	-0.79265	18.266E-6
	-20.00000	85.00000	89.00000	-0.79502	88.600	-15331551.56E-6	-0.69046	15.953E-6
	-18.75000	-10.00000	89.00000	-0.49878	88.600	-44.644E-6	-0.13630	3.2040E-6
	-18.75000	-8.81250	89.00000	-0.53485	88.600	-49.298E-6	-0.14482	3.4039E-6
	-18.75000	-7.62500	89.00000	-0.57216	88.600	-54.434E-6	-0.15719	3.6145E-6
	-18.75000	-6.43750	89.00000	-0.61060	88.600	-60.090E-6	-0.16318	3.8353E-6
	-18.75000	-5.25000	89.00000	-0.65003	88.600	-66.298E-6	-0.17301	4.0660E-6
	-18.75000	-4.06250	89.00000	-0.69029	88.600	-73.095E-6	-0.18322	4.3060E-6
	-18.75000	-2.87500	89.00000	-0.73122	88.600	-80.514E-6	-0.19380	4.5543E-6
	-18.75000	-1.68750	89.00000	-0.77261	88.600	-88.596E-6	-0.20470	4.8119E-6
	-18.75000	-0.50000	89.00000	-0.81426	88.600	-97.388E-6	-0.21588	5.0777E-6
	-18.75000	0.68750	89.00000	-0.85596	88.600	-106.95E-6	-0.22730	5.3407E-6
	-18.75000	1.87500	89.00000	-0.89751	88.600	-117.35E-6	-0.23892	5.6133E-6
	-18.75000	3.06250	89.00000	-0.93871	88.600	-128.69E-6	-0.25070	5.8989E-6
	-18.75000	4.25000	89.00000	-0.97936	88.600	-141.11E-6	-0.26262	6.1979E-6
	-18.75000	5.43750	89.00000	-1.0193	88.600	-154.77E-6	-0.27468	6.4521E-6
	-18.75000	6.62500	89.00000	-1.0584	88.600	-169.89E-6	-0.28686	6.7376E-6
	-18.75000	7.81250	89.00000	-1.0966	88.600	-186.74E-6	-0.29919	7.0266E-6
	-18.75000	9.00000	89.00000	-1.1338	88.600	-205.66E-6	-0.31170	7.3196E-6
	-18.75000	10.18750	89.00000	-1.1699	88.600	-227.05E-6	-0.32444	7.6179E-6
	-18.75000	11.37500	89.00000	-1.2049	88.600	-251.42E-6	-0.33748	7.9230E-6
	-18.75000	12.56250	89.00000	-1.2388	88.600	-279.37E-6	-0.35091	8.2370E-6
	-18.75000	13.75000	89.00000	-1.2717	88.600	-311.63E-6	-0.36482	8.5620E-6
	-18.75000	14.93750	89.00000	-1.3035	88.600	-349.10E-6	-0.37933	8.9008E-6
	-18.75000	16.12500	89.00000	-1.3345	88.600	-392.82E-		



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore
Demolition Unload (Undrained)
Output

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-18.75000	54.12500	89.00000	-2.6263	88.600	-0.053051	-2.9595	65.891E-6	
-18.75000	55.31250	89.00000	-2.7762	88.600	-0.084035	-3.4993	76.404E-6	
-18.75000	56.50000	89.00000	-2.9654	88.600	-0.14566	-4.2766	90.343E-6	
-18.75000	57.68750	89.00000	-3.2055	88.600	-0.27408	-5.4125	108.01E-6	
-18.75000	58.87500	89.00000	-3.5026	88.600	-0.52967	-7.0183	127.75E-6	
-18.75000	60.06250	89.00000	-3.8349	88.600	-0.91822	-8.9857	146.61E-6	
-18.75000	61.25000	89.00000	-4.1414	88.600	-1.2759	-10.839	164.97E-6	
-18.75000	62.43750	89.00000	-4.3698	88.600	-1.4845	-12.190	182.03E-6	
-18.75000	63.62500	89.00000	-4.5079	88.600	-1.5821	-13.016	194.57E-6	
-18.75000	64.81250	89.00000	-4.5649	88.600	-1.6227	-13.426	201.36E-6	
-18.75000	66.00000	89.00000	-4.5388	88.600	-1.6316	-13.499	202.44E-6	
-18.75000	67.18750	89.00000	-4.4407	88.600	-1.6147	-13.256	197.94E-6	
-18.75000	68.37500	89.00000	-4.2647	88.600	-1.5617	-12.662	187.69E-6	
-18.75000	69.56250	89.00000	-4.0036	88.600	-1.4401	-11.624	171.86E-6	
-18.75000	70.75000	89.00000	-3.6542	88.600	-1.1912	-10.046	152.30E-6	
-18.75000	71.93750	89.00000	-3.2389	88.600	-0.80502	-8.0324	132.17E-6	
-18.75000	73.12500	89.00000	-2.8188	88.600	-0.44154	-6.0539	111.28E-6	
-18.75000	74.31250	89.00000	-2.4473	88.600	-0.22479	-4.5088	90.222E-6	
-18.75000	75.50000	89.00000	-2.1365	88.600	-0.11864	-3.4188	72.068E-6	
-18.75000	76.68750	89.00000	-1.8779	88.600	-0.067084	-2.6587	57.822E-6	
-18.75000	77.87500	89.00000	-1.6603	88.600	-0.040549	-2.0371	46.312E-6	
-18.75000	79.06250	89.00000	-1.4745	88.600	-0.025930	-1.7202	38.644E-6	
-18.75000	80.25000	89.00000	-1.3142	88.600	-0.017362	-1.4213	32.217E-6	
-18.75000	81.43750	89.00000	-1.1744	88.600	-0.012069	-1.1910	27.171E-6	
-18.75000	82.62500	89.00000	-1.0517	88.600	-0.008516	-1.0089	23.151E-6	
-18.75000	83.81250	89.00000	-0.9450	88.600	-0.0063626	-0.86501	19.909E-6	
-18.75000	85.00000	89.00000	-0.84702	88.600	-0.0047811	-0.74747	17.250E-6	
-17.50000	-10.00000	89.00000	-0.54295	88.600	-48.746E-6	-0.14591	3.4297E-6	
-17.50000	-8.81250	89.00000	-0.58294	88.600	-54.088E-6	-0.15552	3.6554E-6	
-17.50000	-7.62500	89.00000	-0.62441	88.600	-60.013E-6	-0.16567	3.8939E-6	
-17.50000	-6.43750	89.00000	-0.67623	88.600	-66.559E-6	-0.17636	4.1451E-6	
-17.50000	-5.25000	89.00000	-0.71125	88.600	-73.765E-6	-0.18757	4.4082E-6	
-17.50000	-4.06250	89.00000	-0.75627	88.600	-81.663E-6	-0.19925	4.6825E-6	
-17.50000	-2.87500	89.00000	-0.80209	88.600	-90.283E-6	-0.21137	4.9669E-6	
-17.50000	-1.68750	89.00000	-0.84847	88.600	-99.656E-6	-0.22386	5.2601E-6	
-17.50000	-0.50000	89.00000	-0.90500	88.600	-109.828E-6	-0.23666	5.5608E-6	
-17.50000	0.68750	89.00000	-0.94189	88.600	-120.81E-6	-0.24972	5.8673E-6	
-17.50000	1.87500	89.00000	-0.98841	88.600	-132.71E-6	-0.26298	6.1784E-6	
-17.50000	3.06250	89.00000	-1.0345	88.600	-145.60E-6	-0.27638	6.4928E-6	
-17.50000	4.25000	89.00000	-1.0799	88.600	-159.62E-6	-0.28989	6.8096E-6	
-17.50000	5.43750	89.00000	-1.1244	88.600	-174.93E-6	-0.30347	7.1282E-6	
-17.50000	6.62500	89.00000	-1.1679	88.600	-191.83E-6	-0.31714	7.4486E-6	
-17.50000	7.81250	89.00000	-1.2102	88.600	-210.57E-6	-0.33090	7.7710E-6	
-17.50000	9.00000	89.00000	-1.2512	88.600	-231.56E-6	-0.34479	8.0964E-6	
-17.50000	10.18750	89.00000	-1.2910	88.600	-255.30E-6	-0.35888	8.4261E-6	
-17.50000	11.37500	89.00000	-1.3294	88.600	-282.36E-6	-0.37324	8.7622E-6	
-17.50000	12.56250	89.00000	-1.3665	88.600	-313.49E-6	-0.38798	9.1069E-6	
-17.50000	13.75000	89.00000	-1.4024	88.600	-349.58E-6	-0.40323	9.4631E-6	
-17.50000	14.93750	89.00000	-1.4371	88.600	-391.70E-6	-0.41913	9.8342E-6	
-17.50000	16.12500	89.00000	-1.4708	88.600	-441.20E-6	-0.43584	10.2248E-6	
-17.50000	17.31250	89.00000	-1.5034	88.600	-499.68E-6	-0.45335	10.637E-6	
-17.50000	18.50000	89.00000	-1.5352	88.600	-569.14E-6	-0.47249	11.077E-6	
-17.50000	19.68750	89.00000	-1.5663	88.600	-652.00E-6	-0.49285	11.550E-6	
-17.50000	20.87500	89.00000	-1.5968	88.600	-751.22E-6	-0.51490	12.062E-6	
-17.50000	22.06250	89.00000	-1.6265	88.600	-870.43E-6	-0.53869	12.618E-6	
-17.50000	23.25000	89.00000	-1.6556	88.600	-0.0010140	-0.56514	13.226E-6	
-17.50000	24.43750	89.00000	-1.6860	88.600	-0.0011873	-0.59395	13.891E-6	
-17.50000	25.62500	89.00000	-1.7154	88.600	-0.0013967	-0.62565	14.623E-6	
-17.50000	26.81250	89.00000	-1.7448	88.600	-0.0016496	-0.66060	15.427E-6	
-17.50000	28.00000	89.00000	-1.7743	88.600	-0.0019548	-0.69918	16.313E-6	
-17.50000	29.18750	89.00000	-1.8042	88.600	-0.0023218	-0.74175	17.289E-6	
-17.50000	30.37500	89.00000	-1.8344	88.600	-0.0027608	-0.78866	18.362E-6	
-17.50000	31.56250	89.00000	-1.8651	88.600	-0.0032819	-0.84022	19.538E-6	
-17.50000	32.75000	89.00000	-1.8964	88.600	-0.0038937	-0.89666	20.823E-6	
-17.50000	33.93750	89.00000	-1.9285	88.600	-0.0046015	-0.95815	22.218E-6	
-17.50000	35.12500	89.00000	-1.9613	88.600	-0.0054061	-1.0244	23.721E-6	
-17.50000	36.31250	89.00000	-1.9950	88.600	-0.0063017	-1.0953	25.326E-6	
-17.50000	37.50000	89.00000	-2.0296	88.600	-0.0072758	-1.1704	27.025E-6	
-17.50000	38.68750	89.00000	-2.0650	88.600	-0.0083110	-1.2492	28.805E-6	
-17.50000	39.87500	89.00000	-2.1014	88.600	-0.0093987	-1.3311	30.658E-6	
-17.50000	41.06250	89.00000	-2.1390	88.600	-0.010495	-1.4160	32.577E-6	
-17.50000	42.25000	89.00000	-2.1779	88.600	-0.011626	-1.5039	34.566E-6	
-17.50000	43.43750	89.00000	-2.2187	88.600	-0.012799	-1.5956	36.640E-6	
-17.50000	44.62500	89.00000	-2.2621	88.600	-0.014055	-1.6926	38.835E-6	
-17.50000	45.81250	89.00000	-2.3080	88.600	-0.015473	-1.7957	41.205E-6	
-17.50000	47.00000	89.00000	-2.3607	88.600	-0.017188	-1.9147	43.839E-6	
-17.50000	48.18750	89.00000	-2.4191	88.600	-0.019424	-2.0498	46.859E-6	
-17.50000	49.37500	89.00000	-2.4863	88.600	-0.022568	-2.2117	50.447E-6	
-17.50000	50.56250	89.00000	-2.5654	88.600	-0.027309	-2.4137	54.865E-6	
-17.50000	51.75000	89.00000	-2.6506	88.600	-0.033462	-2.6761	60.500E-6	
-17.50000	52.93750	89.00000	-2.7778	88.600	-0.048209	-3.0315	67.927E-6	
-17.50000	54.12500	89.00000	-2.9258	88.600	-0.073047	-3.5347	78.014E-6	
-17.50000	55.31250	89.00000	-3.1183	88.600	-0.12445	-4.2840	92.016E-6	
-17.50000	56.50000	89.00000	-3.3784	88.600	-0.24520	-5.4678	111.35E-6	
-17.50000	57.68750	89.00000	-3.7448	88.600	-0.57601	-7.4619	135.01E-6	
-17.50000	58.87500	89.00000	-4.2754	88.600	-1.5799	-10.965	146.48E-6	
-17.50000	60.06250	89.00000	-4.9737	88.600	-3.8216	-16.200	111.42E-6	
-17.50000	61.25000	89.00000	-5.1009	88.600	-5.7266	-20.974	89.281E-6	
-17.50000	62.43750	89.00000	-6.0257	88.600	-6.4452	-23.807	105.22E-6	
-17.50000	63.62500	89.00000	-6.6250	88.600	-6.6799	-25.278	123.20E-6	
-17.50000	64.81250	89.00000	-6.3473	88.600	-6.7580	-25.939	133.29E-6	
-17.50000	66.00000	89.00000	-6.3280	88.600	-6.7742	-26.063	135.06E-6	
-17.50000	67.18750	89.00000	-6.2035	88.600	-6.7436	-25.702	128.72E-6	
-17.50000	68.37500	89.00000	-5.9634	88.600	-6.6364	-24.754	113.98E-6	
-17.50000	69.56250	89.00000	-5.5771	88.600	-6.3223	-22.919	92.309E-6	
-17.50000	70.75000	89.00000	-4.9919	88.600	-5.3559	-19.467	79.984E-6	
-17.50000	71.93750	89.00000	-4.2018	88.600	-3.1446	-14.201	112.18E-6	
-17.50000	73.12500	89.00000	-3.4007	88.600	-1.1938	-9.2297	132.90E-6	
-17.50000	74.31250	89.00000	-2.8480	88.600	-0.44288	-6.1209	112.76E-6	
-17.50000	75.50000	89.00000	-2.4182	88.600	-0.19262	-4.3146	107.92E-6	
-17.50000	76.68750	89.00000	-2.0875	88.600	-0.096953	-3.2029	68.520E-6	
-17.50000	77.87500	89.00000	-1.8226	88.600	-0.054416	-2.4715	54.311E-6	
-17.50000	79.06250	89.00000	-1.6038	88.600	-0.033090	-1.9632	43.856E-6	
-17.50000	80.25000	89.00000	-1.4191	88.600	-0.021371	-1.5946	36.012E-6	
-17.50000	81.43750	89.00000	-1.2609	88.600	-0.014459	-1.3184	30.001E-6	
-17.50000	82.62500	89.00000	-1.1237	88.600	-0.010148	-1.1059	25.304E-6	
-17.50000	83.81250	89.00000	-1.0038	88.600	-0.0073382	-0.93878	21.571E-6	
-17.50000	85.00000	89.00000	-0.89837	88.600	-0.0054380	-0.80509	18.560E-6	
-16.25000	-10.00000	89.00000	-0.59032	88.600	-53.590E-6	-0.16568	3.6806E-6	
-16.25000	-8.81250	89.00000	-0.63474	88.600	-59.818E-6	-0.16750	3.9369E-6	
-16.25000	-7.62500	89.00000	-0.68094	88.600	-66.760E-6	-0.17909	4.2092E-6	
-16.25000	-6.43750	89.00000	-0.72877	88.600	-74.477E-6	-0.19135	4.4971E-6	
-16.25000	-5.25000	89.00000	-0.77805	88.600	-83.005E-6	-0.20424	4.7999E-6	
-16.25000	-4.06250	89.0						



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by Date Checked

Kidderpore Demolition Unload (Undrained) Output

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 400 rows of data.



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-13.75000	4.25000	89.00000	-1.4609	88.600	-258.34E-6	-0.40895	9.6041E-6	
-13.75000	5.43750	89.00000	-1.5237	88.600	-281.71E-6	-0.42952	10.086E-6	
-13.75000	6.62500	89.00000	-1.5844	88.600	-306.52E-6	-0.44973	10.560E-6	
-13.75000	7.81250	89.00000	-1.6428	88.600	-333.23E-6	-0.46961	11.026E-6	
-13.75000	9.00000	89.00000	-1.6988	88.600	-362.46E-6	-0.48922	11.486E-6	
-13.75000	10.18750	89.00000	-1.7523	88.600	-395.04E-6	-0.50859	11.941E-6	
-13.75000	11.37500	89.00000	-1.8034	88.600	-431.98E-6	-0.52817	12.397E-6	
-13.75000	12.56250	89.00000	-1.8523	88.600	-474.54E-6	-0.54788	12.858E-6	
-13.75000	13.75000	89.00000	-1.8990	88.600	-524.32E-6	-0.56806	13.329E-6	
-13.75000	14.93750	89.00000	-1.9438	88.600	-583.28E-6	-0.58900	13.818E-6	
-13.75000	16.12500	89.00000	-1.9870	88.600	-653.92E-6	-0.61103	14.318E-6	
-13.75000	17.31250	89.00000	-2.0287	88.600	-739.40E-6	-0.63451	14.878E-6	
-13.75000	18.50000	89.00000	-2.0692	88.600	-843.78E-6	-0.65986	15.467E-6	
-13.75000	19.68750	89.00000	-2.1089	88.600	-972.27E-6	-0.68753	16.109E-6	
-13.75000	20.87500	89.00000	-2.1480	88.600	-0.0011316	-0.71804	16.815E-6	
-13.75000	22.06250	89.00000	-2.1866	88.600	-0.0013306	-0.75196	17.592E-6	
-13.75000	23.25000	89.00000	-2.2252	88.600	-0.0015808	-0.78990	18.474E-6	
-13.75000	24.43750	89.00000	-2.2638	88.600	-0.0018973	-0.83258	19.456E-6	
-13.75000	25.62500	89.00000	-2.3026	88.600	-0.0023002	-0.88079	20.562E-6	
-13.75000	26.81250	89.00000	-2.3419	88.600	-0.0028159	-0.93543	21.811E-6	
-13.75000	28.00000	89.00000	-2.3817	88.600	-0.0034795	-0.99757	23.227E-6	
-13.75000	29.18750	89.00000	-2.4224	88.600	-0.0043366	-1.0684	24.834E-6	
-13.75000	30.37500	89.00000	-2.4641	88.600	-0.0054456	-1.1495	26.662E-6	
-13.75000	31.56250	89.00000	-2.5073	88.600	-0.0068781	-1.2422	28.742E-6	
-13.75000	32.75000	89.00000	-2.5522	88.600	-0.0087156	-1.3481	31.104E-6	
-13.75000	33.93750	89.00000	-2.5989	88.600	-0.011040	-1.4683	33.769E-6	
-13.75000	35.12500	89.00000	-2.6483	88.600	-0.013912	-1.6034	36.744E-6	
-13.75000	36.31250	89.00000	-2.6997	88.600	-0.017339	-1.7526	40.103E-6	
-13.75000	37.50000	89.00000	-2.7531	88.600	-0.021247	-1.9137	43.929E-6	
-13.75000	38.68750	89.00000	-2.8078	88.600	-0.025460	-2.0832	47.218E-6	
-13.75000	39.87500	89.00000	-2.8639	88.600	-0.029938	-2.2564	50.992E-6	
-13.75000	41.06250	89.00000	-2.9187	88.600	-0.033844	-2.4291	54.767E-6	
-13.75000	42.25000	89.00000	-2.9743	88.600	-0.037614	-2.5985	58.486E-6	
-13.75000	43.43750	89.00000	-3.0301	88.600	-0.041006	-2.7638	62.136E-6	
-13.75000	44.62500	89.00000	-3.0871	88.600	-0.044091	-2.9269	65.765E-6	
-13.75000	45.81250	89.00000	-3.1458	88.600	-0.047049	-3.0922	69.436E-6	
-13.75000	47.00000	89.00000	-3.2114	88.600	-0.050168	-3.2669	73.327E-6	
-13.75000	48.18750	89.00000	-3.2839	88.600	-0.053896	-3.4618	77.651E-6	
-13.75000	49.37500	89.00000	-3.3683	88.600	-0.058973	-3.6929	82.728E-6	
-13.75000	50.56250	89.00000	-3.4701	88.600	-0.066749	-3.9844	89.038E-6	
-13.75000	51.75000	89.00000	-3.5973	88.600	-0.079929	-4.3756	97.313E-6	
-13.75000	52.93750	89.00000	-3.7620	88.600	-0.10451	-4.9342	108.72E-6	
-13.75000	54.12500	89.00000	-3.9843	88.600	-0.15541	-5.7853	125.16E-6	
-13.75000	55.31250	89.00000	-4.2999	88.600	-0.27547	-7.1836	149.58E-6	
-13.75000	56.50000	89.00000	-4.7190	88.600	-0.61326	-9.7083	195.14E-6	
-13.75000	57.68750	89.00000	-5.2576	88.600	-1.8248	-14.887	221.01E-6	
-13.75000	58.87500	89.00000	-7.0641	88.600	-7.4520	-26.828	105.23E-6	
-13.75000	60.06250	89.00000	-9.7433	88.600	-26.876	-50.590	-706.79E-6	
-13.75000	61.25000	89.00000	-12.056	88.600	-41.905	-71.054	-0.0012862	
-13.75000	62.43750	89.00000	-14.9375	88.600	-45.397	-80.079	-0.0013203	
-13.75000	63.62500	89.00000	-13.725	88.600	-46.188	-83.819	-0.0012881	
-13.75000	64.81250	89.00000	-13.933	88.600	-46.405	-85.323	-0.0012681	
-13.75000	66.00000	89.00000	-13.918	88.600	-46.446	-85.588	-0.0012647	
-13.75000	67.18750	89.00000	-13.701	88.600	-46.367	-84.814	-0.0012773	
-13.75000	68.37500	89.00000	-13.244	88.600	-46.058	-82.344	-0.0013067	
-13.75000	69.56250	89.00000	-12.413	88.600	-44.909	-77.711	-0.0013416	
-13.75000	70.75000	89.00000	-10.856	88.600	-39.575	-66.041	-0.0012396	
-13.75000	71.93750	89.00000	-8.0583	88.600	-20.567	-42.405	-453.99E-6	
-13.75000	73.12500	89.00000	-5.5072	88.600	-4.9866	-21.243	147.84E-6	
-13.75000	74.31250	89.00000	-4.1050	88.600	-1.2925	-11.549	180.58E-6	
-13.75000	75.50000	89.00000	-3.2695	88.600	-0.44911	-7.1690	136.98E-6	
-13.75000	76.68750	89.00000	-2.7071	88.600	-0.19483	-4.8859	101.21E-6	
-13.75000	77.87500	89.00000	-2.2950	88.600	-0.098461	-3.5458	76.481E-6	
-13.75000	79.06250	89.00000	-1.9752	88.600	-0.055381	-2.6888	59.357E-6	
-13.75000	80.25000	89.00000	-1.6500	88.600	-0.031659	-2.1056	47.165E-6	
-13.75000	81.43750	89.00000	-1.5044	88.600	-0.021701	-1.6898	38.227E-6	
-13.75000	82.62500	89.00000	-1.3250	88.600	-0.014636	-1.3826	31.500E-6	
-13.75000	83.81250	89.00000	-1.1718	88.600	-0.010233	-1.1493	26.320E-6	
-13.75000	85.00000	89.00000	-1.0396	88.600	-0.0073686	-0.96799	22.256E-6	
-12.50000	-7.81250	89.00000	-0.75353	88.600	-74.855E-6	-0.19670	4.6230E-6	
-12.50000	-8.81250	89.00000	-0.81516	88.600	-85.812E-6	-0.21340	5.0150E-6	
-12.50000	-9.81250	89.00000	-0.88001	88.600	-98.476E-6	-0.23152	5.4406E-6	
-12.50000	-10.81250	89.00000	-0.94792	88.600	-113.02E-6	-0.25109	5.8999E-6	
-12.50000	-11.81250	89.00000	-1.0186	88.600	-129.56E-6	-0.27207	6.3924E-6	
-12.50000	-12.81250	89.00000	-1.0917	88.600	-148.16E-6	-0.29497	6.9303E-6	
-12.50000	-13.81250	89.00000	-1.1668	88.600	-168.76E-6	-0.31785	7.4669E-6	
-12.50000	-14.81250	89.00000	-1.2433	88.600	-191.20E-6	-0.34228	8.0400E-6	
-12.50000	-15.81250	89.00000	-1.3205	88.600	-215.21E-6	-0.36738	8.6289E-6	
-12.50000	-16.81250	89.00000	-1.3977	88.600	-240.45E-6	-0.39284	9.2263E-6	
-12.50000	-17.81250	89.00000	-1.4750	88.600	-266.98E-6	-0.41925	9.8478E-6	
-12.50000	-18.81250	89.00000	-1.5496	88.600	-293.40E-6	-0.44362	10.417E-6	
-12.50000	-19.81250	89.00000	-1.6230	88.600	-320.80E-6	-0.46843	10.999E-6	
-12.50000	-20.81250	89.00000	-1.6941	88.600	-348.89E-6	-0.49261	11.566E-6	
-12.50000	-21.81250	89.00000	-1.7624	88.600	-378.02E-6	-0.51612	12.117E-6	
-12.50000	-22.81250	89.00000	-1.8278	88.600	-408.72E-6	-0.53997	12.653E-6	
-12.50000	-23.81250	89.00000	-1.8901	88.600	-441.77E-6	-0.56124	13.175E-6	
-12.50000	-24.81250	89.00000	-1.9494	88.600	-478.16E-6	-0.58312	13.687E-6	
-12.50000	-25.81250	89.00000	-2.0057	88.600	-519.13E-6	-0.60481	14.194E-6	
-12.50000	-26.81250	89.00000	-2.0592	88.600	-566.19E-6	-0.62660	14.703E-6	
-12.50000	-27.81250	89.00000	-2.1102	88.600	-621.27E-6	-0.64878	15.222E-6	
-12.50000	-28.81250	89.00000	-2.1590	88.600	-686.76E-6	-0.67174	15.757E-6	
-12.50000	-29.81250	89.00000	-2.2058	88.600	-765.69E-6	-0.69587	16.319E-6	
-12.50000	-30.81250	89.00000	-2.2509	88.600	-861.98E-6	-0.72166	16.919E-6	
-12.50000	-31.81250	89.00000	-2.2949	88.600	-980.71E-6	-0.74961	17.569E-6	
-12.50000	-32.81250	89.00000	-2.3379	88.600	-1129.5	-0.78033	18.281E-6	
-12.50000	-33.81250	89.00000	-2.3804	88.600	-0.0013142	-0.81447	19.071E-6	
-12.50000	-34.81250	89.00000	-2.4227	88.600	-0.0015493	-0.85275	19.955E-6	
-12.50000	-35.81250	89.00000	-2.4650	88.600	-0.0018495	-0.89601	20.952E-6	
-12.50000	-36.81250	89.00000	-2.5076	88.600	-0.0022359	-0.94513	22.081E-6	
-12.50000	-37.81250	89.00000	-2.5506	88.600	-0.0027371	-1.00012	23.364E-6	
-12.50000	-38.81250	89.00000	-2.5943	88.600	-0.0033929	-1.0635	24.826E-6	
-12.50000	-39.81250	89.00000	-2.6388	88.600	-0.0042582	-1.1390	26.500E-6	
-12.50000	-40.81250	89.00000	-2.6844	88.600	-0.0054093	-1.2242	28.422E-6	
-12.50000	-41.81250	89.00000	-2.7315	88.600	-0.0069510	-1.3230	30.638E-6	
-12.50000	-42.81250	89.00000	-2.7805	88.600	-0.0090226	-1.4381	33.202E-6	
-12.50000	-43.81250	89.00000	-2.8321	88.600	-0.011805	-1.5726	36.168E-6	
-12.50000	-44.81250	89.00000	-2.8867	88.600	-0.015502	-1.7289	39.587E-6	
-12.50000	-45.81250	89.00000	-2.9449	88.600	-0.020308	-1.9091	43.487E-6	
-12.50000	-46.81250	89.00000	-3.0066	88.600	-0.026325	-2.1128	47.854E-6	
-12.50000	-47.81250	89.00000	-3.0714	88.600	-0.033446	-2.3366	52.618E-6	
-12.50000	-48.81250	89.00000	-3.1381	88.600	-0.041276	-2.5737	57.644E-6	
-12.50000	-49.81250	89.00000	-3.2054	88.600	-0.049195	-2.8148	62.757E-6	
-12.50000	-50.81250	89.00000	-3.2718	88.600	-0.056575	-3.0507	67.988E-6	
-12.50000								



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore Demolition Unload (Undrained) Output

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 100 rows of data.



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-10.00000	50.56250	89.00000	-4.9210	88.600	-0.30688	-8.0580	167.94E-6	
-10.00000	51.75000	89.00000	-5.0509	88.600	-0.32194	-8.4973	177.21E-6	
-10.00000	52.93750	89.00000	-5.2212	88.600	-0.34967	-9.1174	189.85E-6	
-10.00000	54.12500	89.00000	-5.4549	88.600	-0.40687	-10.061	208.01E-6	
-10.00000	55.31250	89.00000	-5.7920	88.600	-0.54077	-11.613	235.08E-6	
-10.00000	56.50000	89.00000	-6.2098	88.600	-0.91064	-14.407	274.70E-6	
-10.00000	57.68750	89.00000	-7.1719	88.600	-2.1965	-20.034	316.35E-6	
-10.00000	58.87500	89.00000	-8.7598	88.600	-7.9781	-32.747	207.35E-6	
-10.00000	60.06250	89.00000	-11.562	88.600	-27.637	-57.483	-598.29E-6	
-10.00000	61.25000	89.00000	-13.987	88.600	-42.882	-78.858	-0.0011715	
-10.00000	62.43750	89.00000	-15.195	88.600	-46.499	-88.497	-0.0012800	
-10.00000	63.62500	89.00000	-15.757	88.600	-47.345	-92.547	-0.0011644	
-10.00000	64.81250	89.00000	-15.956	88.600	-47.581	-94.137	-0.0011437	
-10.00000	66.00000	89.00000	-15.897	88.600	-47.621	-94.313	-0.0011424	
-10.00000	67.18750	89.00000	-15.604	88.600	-47.525	-93.278	-0.0011599	
-10.00000	68.37500	89.00000	-15.031	88.600	-47.774	-90.630	-0.0011974	
-10.00000	69.56250	89.00000	-14.038	88.600	-45.932	-84.931	-0.0012439	
-10.00000	70.75000	89.00000	-12.265	88.600	-40.416	-72.121	-0.0011559	
-10.00000	71.93750	89.00000	-9.2148	88.600	-21.139	-47.055	-384.97E-6	
-10.00000	73.12500	89.00000	-6.4152	88.600	-5.3042	-24.504	202.15E-6	
-10.00000	74.31250	89.00000	-4.8056	88.600	-1.4519	-13.749	220.87E-6	
-10.00000	75.50000	89.00000	-3.8116	88.600	-0.52898	-8.6419	166.00E-6	
-10.00000	76.68750	89.00000	-3.1313	88.600	-0.23653	-5.8908	121.91E-6	
-10.00000	77.87500	89.00000	-2.6312	88.600	-0.12134	-4.2463	91.347E-6	
-10.00000	79.06250	89.00000	-2.2451	88.600	-0.068542	-3.1876	70.165E-6	
-10.00000	80.25000	89.00000	-1.9455	88.600	-0.041564	-2.4680	55.137E-6	
-10.00000	81.43750	89.00000	-1.6938	88.600	-0.026613	-1.9580	44.192E-6	
-10.00000	82.62500	89.00000	-1.4732	88.600	-0.017789	-1.5844	36.025E-6	
-10.00000	83.81250	89.00000	-1.2953	88.600	-0.012313	-1.3034	29.798E-6	
-10.00000	85.00000	89.00000	-1.1432	88.600	-0.008733	-1.0872	24.962E-6	
-8.75000	-10.00000	89.00000	-0.95162	88.600	-14.98E-6	-0.2535	-0.00121E-6	
-8.75000	-8.81250	89.00000	-1.0387	88.600	-137.28E-6	-0.28070	6.5950E-6	
-8.75000	-7.62500	89.00000	-1.1320	88.600	-166.03E-6	-0.31156	7.3190E-6	
-8.75000	-6.43750	89.00000	-1.2317	88.600	-201.76E-6	-0.34625	8.1327E-6	
-8.75000	-5.25000	89.00000	-1.3374	88.600	-245.79E-6	-0.38498	9.0410E-6	
-8.75000	-4.06250	89.00000	-1.4487	88.600	-299.21E-6	-0.42797	10.044E-6	
-8.75000	-2.87500	89.00000	-1.5648	88.600	-362.40E-6	-0.47441	11.137E-6	
-8.75000	-1.68750	89.00000	-1.6844	88.600	-434.55E-6	-0.52419	12.303E-6	
-8.75000	-0.50000	89.00000	-1.8059	88.600	-513.26E-6	-0.57607	13.518E-6	
-8.75000	0.68750	89.00000	-1.9277	88.600	-594.86E-6	-0.62870	14.757E-6	
-8.75000	1.87500	89.00000	-2.0479	88.600	-675.22E-6	-0.68063	15.967E-6	
-8.75000	3.06250	89.00000	-2.1647	88.600	-750.95E-6	-0.73057	17.137E-6	
-8.75000	4.25000	89.00000	-2.2767	88.600	-820.21E-6	-0.77761	18.239E-6	
-8.75000	5.43750	89.00000	-2.3831	88.600	-882.78E-6	-0.82128	19.262E-6	
-8.75000	6.62500	89.00000	-2.4831	88.600	-939.76E-6	-0.86153	20.205E-6	
-8.75000	7.81250	89.00000	-2.5766	88.600	-992.97E-6	-0.89857	21.073E-6	
-8.75000	9.00000	89.00000	-2.6638	88.600	-0.0010447	-0.93286	21.876E-6	
-8.75000	10.18750	89.00000	-2.7448	88.600	-0.0010975	-0.96495	22.627E-6	
-8.75000	11.37500	89.00000	-2.8201	88.600	-0.0011539	-0.99546	23.341E-6	
-8.75000	12.56250	89.00000	-2.8903	88.600	-0.0012168	-1.0251	24.033E-6	
-8.75000	13.75000	89.00000	-2.9560	88.600	-0.0012897	-1.0545	24.721E-6	
-8.75000	14.93750	89.00000	-3.0180	88.600	-0.0013768	-1.0845	25.421E-6	
-8.75000	16.12500	89.00000	-3.0770	88.600	-0.0014834	-1.1160	26.153E-6	
-8.75000	17.31250	89.00000	-3.1337	88.600	-0.0016167	-1.1499	26.941E-6	
-8.75000	18.50000	89.00000	-3.1881	88.600	-0.0017864	-1.1877	27.811E-6	
-8.75000	19.68750	89.00000	-3.2440	88.600	-0.0020061	-1.2297	28.793E-6	
-8.75000	20.87500	89.00000	-3.2992	88.600	-0.0022949	-1.2787	29.926E-6	
-8.75000	22.06250	89.00000	-3.3555	88.600	-0.0026796	-1.3362	31.250E-6	
-8.75000	23.25000	89.00000	-3.4138	88.600	-0.0031984	-1.4041	32.813E-6	
-8.75000	24.43750	89.00000	-3.4744	88.600	-0.0039048	-1.4846	34.661E-6	
-8.75000	25.62500	89.00000	-3.5374	88.600	-0.0048731	-1.5802	36.837E-6	
-8.75000	26.81250	89.00000	-3.6025	88.600	-0.0062158	-1.6922	39.377E-6	
-8.75000	28.00000	89.00000	-3.6693	88.600	-0.0081091	-1.8233	42.328E-6	
-8.75000	29.18750	89.00000	-3.7376	88.600	-0.010852	-1.9776	45.767E-6	
-8.75000	30.37500	89.00000	-3.8081	88.600	-0.01469	-2.160	49.838E-6	
-8.75000	31.56250	89.00000	-3.8826	88.600	-0.0201391	-2.3921	54.775E-6	
-8.75000	32.75000	89.00000	-3.9643	88.600	-0.031822	-2.6843	60.914E-6	
-8.75000	33.93750	89.00000	-4.0577	88.600	-0.049414	-3.0677	68.694E-6	
-8.75000	35.12500	89.00000	-4.1687	88.600	-0.079963	-3.5806	78.605E-6	
-8.75000	36.31250	89.00000	-4.2921	88.600	-0.13011	-4.2666	90.995E-6	
-8.75000	37.50000	89.00000	-4.4634	88.600	-0.21979	-5.1512	105.69E-6	
-8.75000	38.68750	89.00000	-4.6426	88.600	-0.33789	-6.1892	121.78E-6	
-8.75000	39.87500	89.00000	-4.8218	88.600	-0.45805	-7.2383	137.98E-6	
-8.75000	41.06250	89.00000	-4.9816	88.600	-0.58472	-8.1500	153.03E-6	
-8.75000	42.25000	89.00000	-5.1338	88.600	-0.60521	-8.5138	165.96E-6	
-8.75000	43.43750	89.00000	-5.2209	88.600	-0.63806	-9.4178	176.56E-6	
-8.75000	44.62500	89.00000	-5.3096	88.600	-0.65738	-9.8423	185.18E-6	
-8.75000	45.81250	89.00000	-5.3870	88.600	-0.66944	-10.185	192.40E-6	
-8.75000	47.00000	89.00000	-5.4598	88.600	-0.67782	-10.482	198.78E-6	
-8.75000	48.18750	89.00000	-5.5243	88.600	-0.68472	-10.761	204.88E-6	
-8.75000	49.37500	89.00000	-5.6167	88.600	-0.69184	-11.053	211.24E-6	
-8.75000	50.56250	89.00000	-5.7142	88.600	-0.70112	-11.391	218.53E-6	
-8.75000	51.75000	89.00000	-5.8361	88.600	-0.71570	-11.821	227.63E-6	
-8.75000	52.93750	89.00000	-5.9960	88.600	-0.74215	-12.419	239.83E-6	
-8.75000	54.12500	89.00000	-6.2153	88.600	-0.79644	-13.321	257.21E-6	
-8.75000	55.31250	89.00000	-6.5321	88.600	-0.92393	-14.797	282.94E-6	
-8.75000	56.50000	89.00000	-7.0204	88.600	-1.2796	-17.458	320.46E-6	
-8.75000	57.68750	89.00000	-7.8398	88.600	-2.5357	-22.865	359.02E-6	
-8.75000	58.87500	89.00000	-9.3698	88.600	-8.2626	-35.246	246.07E-6	
-8.75000	60.06250	89.00000	-12.103	88.600	-27.845	-59.568	163.95E-6	
-8.75000	61.25000	89.00000	-14.461	88.600	-43.019	-80.543	-0.0011415	
-8.75000	62.43750	89.00000	-15.612	88.600	-46.590	-89.874	-0.0011740	
-8.75000	63.62500	89.00000	-16.132	88.600	-47.410	-93.718	-0.0011415	
-8.75000	64.81250	89.00000	-16.297	88.600	-47.635	-95.171	-0.0011231	
-8.75000	66.00000	89.00000	-16.211	88.600	-47.619	-95.249	-0.0011237	
-8.75000	67.18750	89.00000	-15.892	88.600	-47.568	-94.131	-0.0011429	
-8.75000	68.37500	89.00000	-15.293	88.600	-47.213	-91.401	-0.0011820	
-8.75000	69.56250	89.00000	-14.273	88.600	-45.966	-85.614	-0.0012302	
-8.75000	70.75000	89.00000	-12.473	88.600	-40.445	-72.708	-0.0011442	
-8.75000	71.93750	89.00000	-9.9397	88.600	-21.161	-47.542	-0.001175E-6	
-8.75000	73.12500	89.00000	-6.5665	88.600	-5.3209	-24.893	210.12E-6	
-8.75000	74.31250	89.00000	-4.9314	88.600	-1.4635	-14.044	227.15E-6	
-8.75000	75.50000	89.00000	-3.9151	88.600	-0.53673	-8.8708	170.84E-6	
-8.75000	76.68750	89.00000	-3.2161	88.600	-0.24158	-6.0624	125.59E-6	
-8.75000	77.87500	89.00000	-2.3024	88.600	-0.12460	-4.3743	94.129E-6	
-8.75000	79.06250	89.00000	-2.3019	88.600	-0.070649	-3.2833	72.268E-6	
-8.75000	80.25000	89.00000	-1.9833	88.600	-0.042936	-2.5399	56.731E-6	
-8.75000	81.43750	89.00000	-1.7226	88.600	-0.027516	-2.0124	45.408E-6	
-8.75000	82.62500	89.00000	-1.5055	88.600	-0.018392	-1.6260	36.960E-6	
-8.75000	83.81250	89.00000	-1.3223	88.600	-0.012722	-1.3354	30.528E-6	
-8.75000	85.00000	89.00000	-1.1659	88.600	-0.0090549	-1.1122	25.530E-6	
-7.50000	-10.00000	89.00000	-1.0256	88.600	-134.02E-6	-0.27699	6.5080E-6	
-7.50000	-8.81250	89.00000	-1.1236	88.600	-164.68E-6	-0.30967	7.2748E-6	
-7.50000	-7.62500	89.00000	-1.2295	88.600	-204.30E-6	-0.34724	8.1558E-6	
-7.50000	-6.43750	89.00000	-1.3437	88.600	-255.16E-6	-0.39013	9.2561E-6	
-7.50000	-5.250							



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [moD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-7.50000	25.62500	89.00000	-3.9845	88.600	-0.0062374	-1.9137	44.587E-6	
-7.50000	26.81250	89.00000	-4.0630	88.600	-0.0079950	-2.0581	47.861E-6	
-7.50000	28.00000	89.00000	-4.1435	88.600	-0.010476	-2.2257	51.631E-6	
-7.50000	29.18750	89.00000	-4.2247	88.600	-0.014091	-2.4200	55.947E-6	
-7.50000	30.37500	89.00000	-4.3070	88.600	-0.019647	-2.6508	60.986E-6	
-7.50000	31.56250	89.00000	-4.3932	88.600	-0.02730	-2.9390	67.101E-6	
-7.50000	32.75000	89.00000	-4.4884	88.600	-0.044572	-3.3150	74.855E-6	
-7.50000	33.93750	89.00000	-4.6012	88.600	-0.074201	-3.8369	85.042E-6	
-7.50000	35.12500	89.00000	-4.7443	88.600	-0.13397	-4.5935	98.626E-6	
-7.50000	36.31250	89.00000	-4.9352	88.600	-0.26297	-5.7274	116.20E-6	
-7.50000	37.50000	89.00000	-5.1912	88.600	-0.54120	-7.4130	136.22E-6	
-7.50000	38.68750	89.00000	-5.5066	88.600	-1.0239	-9.6449	154.67E-6	
-7.50000	39.87500	89.00000	-5.8241	88.600	-1.5221	-11.915	172.90E-6	
-7.50000	41.06250	89.00000	-6.0819	88.600	-1.8218	-13.669	193.04E-6	
-7.50000	42.25000	89.00000	-6.2699	88.600	-1.9622	-14.862	211.18E-6	
-7.50000	43.43750	89.00000	-6.5045	88.600	-2.0273	-15.664	226.67E-6	
-7.50000	44.62500	89.00000	-6.5063	88.600	-2.0597	-16.226	236.39E-6	
-7.50000	45.81250	89.00000	-6.5875	88.600	-2.0775	-16.645	245.00E-6	
-7.50000	47.00000	89.00000	-6.6590	88.600	-2.0886	-16.983	252.18E-6	
-7.50000	48.18750	89.00000	-6.7290	88.600	-2.0967	-17.284	258.69E-6	
-7.50000	49.37500	89.00000	-6.8045	88.600	-2.1043	-17.553	265.18E-6	
-7.50000	50.56250	89.00000	-6.8928	88.600	-2.1133	-17.914	272.34E-6	
-7.50000	51.75000	89.00000	-7.0026	88.600	-2.1269	-18.324	281.01E-6	
-7.50000	52.93750	89.00000	-7.1461	88.600	-2.1509	-18.880	292.39E-6	
-7.50000	54.12500	89.00000	-7.3425	88.600	-2.1997	-19.703	308.34E-6	
-7.50000	55.31250	89.00000	-7.6184	88.600	-2.3138	-21.377	331.47E-6	
-7.50000	56.50000	89.00000	-8.0611	88.600	-2.6355	-23.433	365.33E-6	
-7.50000	57.68750	89.00000	-8.7967	88.600	-3.8010	-28.340	398.52E-6	
-7.50000	58.87500	89.00000	-10.198	88.600	-9.3041	-39.836	280.56E-6	
-7.50000	60.06250	89.00000	-12.764	88.600	-28.500	-62.917	531.40E-6	
-7.50000	61.25000	89.00000	-14.851	88.600	-43.306	-82.725	-0.0011118	
-7.50000	62.43750	89.00000	-15.996	88.600	-46.722	-91.294	-0.0011499	
-7.50000	63.62500	89.00000	-16.440	88.600	-47.475	-94.713	-0.0011226	
-7.50000	64.81250	89.00000	-16.556	88.600	-47.673	-95.932	-0.0011079	
-7.50000	66.00000	89.00000	-16.435	88.600	-47.696	-95.871	-0.0011110	
-7.50000	67.18750	89.00000	-16.909	88.600	-47.590	-94.660	-0.0011320	
-7.50000	68.37500	89.00000	-15.468	88.600	-47.231	-91.858	-0.0011726	
-7.50000	69.56250	89.00000	-14.427	88.600	-45.982	-86.009	-0.0012220	
-7.50000	70.75000	89.00000	-12.607	88.600	-40.458	-73.043	-0.0011372	
-7.50000	71.93750	89.00000	-9.9206	88.600	-21.173	-47.820	-369.30E-6	
-7.50000	73.12500	89.00000	-6.6649	88.600	-5.3288	-25.182	214.86E-6	
-7.50000	74.31250	89.00000	-5.0140	88.600	-1.4693	-14.222	230.93E-6	
-7.50000	75.50000	89.00000	-3.9839	88.600	-0.54077	-9.0877	173.80E-6	
-7.50000	76.68750	89.00000	-3.2730	88.600	-0.24433	-6.1678	127.88E-6	
-7.50000	77.87500	89.00000	-2.7476	88.600	-0.12645	-4.4543	95.882E-6	
-7.50000	79.06250	89.00000	-2.3408	88.600	-0.071890	-3.3440	73.609E-6	
-7.50000	80.25000	89.00000	-2.0156	88.600	-0.043757	-2.5860	57.759E-6	
-7.50000	81.43750	89.00000	-1.7494	88.600	-0.028068	-2.0477	46.199E-6	
-7.50000	82.62500	89.00000	-1.5280	88.600	-0.018766	-1.6531	37.573E-6	
-7.50000	83.81250	89.00000	-1.3412	88.600	-0.012978	-1.3565	-1.0033E-6	
-7.50000	85.00000	89.00000	-1.1819	88.600	-0.0092325	-1.1287	25.907E-6	
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-6.25000	-8.81250	89.00000	-1.2135	88.600	-199.66E-6	-0.34258	8.0465E-6	
-6.25000	-7.62500	89.00000	-1.3340	88.600	-255.21E-6	-0.38866	9.1269E-6	
-6.25000	-6.43750	89.00000	-1.4651	88.600	-330.88E-6	-0.44285	10.397E-6	
-6.25000	-5.25000	89.00000	-1.6075	88.600	-434.43E-6	-0.50649	11.887E-6	
-6.25000	-4.06250	89.00000	-1.7606	88.600	-575.20E-6	-0.58071	13.623E-6	
-6.25000	-2.87500	89.00000	-1.9237	88.600	-761.99E-6	-0.66600	15.617E-6	
-6.25000	-1.68750	89.00000	-2.0949	88.600	-997.85E-6	-0.76144	17.846E-6	
-6.25000	-0.50000	89.00000	-2.2711	88.600	-0.0012730	-0.86416	20.242E-6	
-6.25000	0.68750	89.00000	-2.4482	88.600	-0.0015623	-0.96906	22.691E-6	
-6.25000	1.87500	89.00000	-2.6217	88.600	-0.0018344	-1.0707	25.064E-6	
-6.25000	3.06250	89.00000	-2.7877	88.600	-0.0020667	-1.1645	27.253E-6	
-6.25000	4.25000	89.00000	-2.9436	88.600	-0.0022522	-1.2479	29.203E-6	
-6.25000	5.43750	89.00000	-3.0979	88.600	-0.0023960	-1.3207	30.904E-6	
-6.25000	6.62500	89.00000	-3.2202	88.600	-0.0025081	-1.3834	32.374E-6	
-6.25000	7.81250	89.00000	-3.3408	88.600	-0.0025986	-1.4379	33.649E-6	
-6.25000	9.00000	89.00000	-3.4505	88.600	-0.0026760	-1.4850	34.765E-6	
-6.25000	10.18750	89.00000	-3.5503	88.600	-0.0027472	-1.5288	35.760E-6	
-6.25000	11.37500	89.00000	-3.6412	88.600	-0.0028161	-1.5697	36.666E-6	
-6.25000	12.56250	89.00000	-3.7245	88.600	-0.0028938	-1.6031	37.515E-6	
-6.25000	13.75000	89.00000	-3.8012	88.600	-0.0029796	-1.6382	38.336E-6	
-6.25000	14.93750	89.00000	-3.8727	88.600	-0.0030815	-1.6736	39.160E-6	
-6.25000	16.12500	89.00000	-3.9401	88.600	-0.0032071	-1.7104	40.018E-6	
-6.25000	17.31250	89.00000	-4.0048	88.600	-0.0033669	-1.7497	40.904E-6	
-6.25000	18.50000	89.00000	-4.0683	88.600	-0.0035759	-1.7954	41.993E-6	
-6.25000	19.68750	89.00000	-4.1320	88.600	-0.0038570	-1.8483	43.217E-6	
-6.25000	20.87500	89.00000	-4.1980	88.600	-0.0042462	-1.9124	44.699E-6	
-6.25000	22.06250	89.00000	-4.2681	88.600	-0.0048021	-1.9928	46.551E-6	
-6.25000	23.25000	89.00000	-4.3448	88.600	-0.0056195	-2.0920	48.920E-6	
-6.25000	24.43750	89.00000	-4.4298	88.600	-0.0068427	-2.2294	51.972E-6	
-6.25000	25.62500	89.00000	-4.5237	88.600	-0.0086553	-2.3988	55.831E-6	
-6.25000	26.81250	89.00000	-4.6244	88.600	-0.011227	-2.6038	60.473E-6	
-6.25000	28.00000	89.00000	-4.7274	88.600	-0.014721	-2.8369	65.710E-6	
-6.25000	29.18750	89.00000	-4.8281	88.600	-0.019568	-3.0926	71.409E-6	
-6.25000	30.37500	89.00000	-4.9262	88.600	-0.026911	-3.3846	77.739E-6	
-6.25000	31.56250	89.00000	-5.0255	88.600	-0.039256	-3.7406	85.242E-6	
-6.25000	32.75000	89.00000	-5.1346	88.600	-0.062140	-4.2161	94.817E-6	
-6.25000	33.93750	89.00000	-5.2681	88.600	-0.10921	-4.9076	107.76E-6	
-6.25000	35.12500	89.00000	-5.4501	88.600	-0.21946	-5.9916	125.65E-6	
-6.25000	36.31250	89.00000	-5.7240	88.600	-0.52448	-7.8742	148.25E-6	
-6.25000	37.50000	89.00000	-6.1654	88.600	-1.5163	-11.333	159.63E-6	
-6.25000	38.68750	89.00000	-6.8405	88.600	-4.2653	-17.174	103.01E-6	
-6.25000	39.87500	89.00000	-7.5321	88.600	-7.1964	-23.214	38.235E-6	
-6.25000	41.06250	89.00000	-8.2889	88.600	-12.3219	-26.906	45.657E-6	
-6.25000	42.25000	89.00000	-8.2615	88.600	-8.6653	-28.904	68.433E-6	
-6.25000	43.43750	89.00000	-8.4313	88.600	-8.7873	-30.059	86.996E-6	
-6.25000	44.62500	89.00000	-8.5445	88.600	-8.8390	-30.790	100.53E-6	
-6.25000	45.81250	89.00000	-8.6270	88.600	-8.8644	-31.294	110.60E-6	
-6.25000	47.00000	89.00000	-8.6944	88.600	-8.8797	-31.675	118.57E-6	
-6.25000	48.18750	89.00000	-8.7571	88.600	-8.8882	-31.995	125.43E-6	
-6.25000	49.37500	89.00000	-8.8228	88.600	-8.8961	-32.296	131.95E-6	
-6.25000	50.56250	89.00000	-8.8987	88.600	-8.9048	-32.615	138.84E-6	
-6.25000	51.75000	89.00000	-8.9927	88.600	-8.9170	-32.994	146.89E-6	
-6.25000	52.93750	89.00000	-9.1032	88.600	-8.9376	-33.491	157.13E-6	
-6.25000	54.12500	89.00000	-9.2813	88.600	-9.9783	-34.208	171.12E-6	
-6.25000	55.31250	89.00000	-9.5185	88.600	-9.0714	-35.338	191.15E-6	
-6.25000	56.50000	89.00000	-9.8785	88.600	-9.3294	-37.320	219.56E-6	
-6.25000	57.68750	89.00000	-10.477	88.600	-10.263	-41.303	247.36E-6	
-6.25000	58.87500	89.00000	-11.634	88.600	-14.824	-50.635	145.01E-6	
-6.25000	60.06250	89.00000	-13.740	88.600	-31.455	-69.746	579.31E-6	
-6.25000	61.25000	89.00000	-15.543	88.600	-44.182	-86.042	-0.0010942	
-6.25000	62.43750	89.00000	-16.361	88.600	-46.955	-92.923	-0.0011280	
-6.25000	63.62500	89.00000	-16.692	88.600	-47.553	-95.619	-0.0011068	
-6.25000	64.81250	89.00000	-16.853	88.600	-47.707	-96.500	-0.0010970	
-6.25000	66.00000	89.00000	-16.582	88.600	-47.713			



SOUTHERN TESTING LABORATORIES

Job No. J12093, Sheet No., Rev., Drg. Ref., Made by, Date, Checked

Kidderpore Demolition Unload (Undrained) Output

Main data table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain)



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
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J12093

Dr. Ref.

Made by	Date	Checked
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Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [moD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-3.75000	71.93750	89.00000	-9.5197	88.600	-21.165	-47.719	-371.20E-6	
-3.75000	73.12500	89.00000	-6.6703	88.600	-5.3234	-25.026	213.08E-6	
-3.75000	74.31250	89.00000	-5.0177	88.600	-1.4652	-14.145	229.41E-6	
-3.75000	75.50000	89.00000	-3.9874	88.600	-0.53787	-8.9480	172.57E-6	
-3.75000	76.68750	89.00000	-3.2770	88.600	-0.24235	-6.1220	126.94E-6	
-3.75000	77.87500	89.00000	-2.7523	88.600	-0.12512	-4.1876	85.187E-6	
-3.75000	79.06250	89.00000	-2.3460	88.600	-0.071011	-3.3200	73.105E-6	
-3.75000	80.25000	89.00000	-2.0211	88.600	-0.043189	-2.5691	57.401E-6	
-3.75000	81.43750	89.00000	-1.7552	88.600	-0.027696	-2.0359	45.948E-6	
-3.75000	82.62500	89.00000	-1.5337	88.600	-0.018521	-1.6451	37.400E-6	
-3.75000	83.81250	89.00000	-1.3468	88.600	-0.012816	-1.3511	30.882E-6	
-3.75000	85.00000	89.00000	-1.1874	88.600	-0.0091245	-1.1251	25.830E-6	
-2.50000	-10.00000	89.00000	-1.3518	88.600	-265.69E-6	-0.39837	9.3547E-6	
-2.50000	-8.81250	89.00000	-1.5079	88.600	-365.12E-6	-0.46633	10.947E-6	
-2.50000	-7.62500	89.00000	-1.6848	88.600	-520.71E-6	-0.55263	12.966E-6	
-2.50000	-6.43750	89.00000	-1.8859	88.600	-777.83E-6	-0.66468	15.582E-6	
-2.50000	-5.25000	89.00000	-2.1161	88.600	-0.0012325	-0.81418	19.070E-6	
-2.50000	-4.06250	89.00000	-2.3812	88.600	-0.0021040	-1.0202	23.856E-6	
-2.50000	-2.87500	89.00000	-2.6885	88.600	-0.0039260	-1.3139	30.639E-6	
-2.50000	-1.68750	89.00000	-3.0446	88.600	-0.0079433	-1.7404	40.390E-6	
-2.50000	-0.50000	89.00000	-3.4464	88.600	-0.013924	-2.3284	53.660E-6	
-2.50000	0.68750	89.00000	-3.8650	88.600	-0.026291	-2.9915	68.533E-6	
-2.50000	1.87500	89.00000	-4.2554	88.600	-0.033592	-3.5527	81.222E-6	
-2.50000	3.06250	89.00000	-4.5936	88.600	-0.037131	-3.9503	90.326E-6	
-2.50000	4.25000	89.00000	-4.8799	88.600	-0.038736	-4.2215	96.594E-6	
-2.50000	5.43750	89.00000	-5.1224	88.600	-0.03212	-4.4106	100.99E-6	
-2.50000	6.62500	89.00000	-5.3290	88.600	-0.039926	-4.5474	104.18E-6	
-2.50000	7.81250	89.00000	-5.5063	88.600	-0.040171	-4.6501	106.58E-6	
-2.50000	9.00000	89.00000	-5.6595	88.600	-0.040332	-4.7302	108.45E-6	
-2.50000	10.18750	89.00000	-5.7928	88.600	-0.040452	-4.7950	109.97E-6	
-2.50000	11.37500	89.00000	-5.9097	88.600	-0.040583	-4.8494	111.24E-6	
-2.50000	12.56250	89.00000	-6.0132	88.600	-0.040650	-4.8972	112.36E-6	
-2.50000	13.75000	89.00000	-6.1057	88.600	-0.040754	-4.9411	113.38E-6	
-2.50000	14.93750	89.00000	-6.1897	88.600	-0.040873	-4.9836	114.38E-6	
-2.50000	16.12500	89.00000	-6.2673	88.600	-0.041020	-5.0271	115.39E-6	
-2.50000	17.31250	89.00000	-6.3409	88.600	-0.041211	-5.0714	116.43E-6	
-2.50000	18.50000	89.00000	-6.4130	88.600	-0.041472	-5.1292	117.76E-6	
-2.50000	19.68750	89.00000	-6.4869	88.600	-0.041849	-5.1973	119.34E-6	
-2.50000	20.87500	89.00000	-6.5673	88.600	-0.042445	-5.2891	121.45E-6	
-2.50000	22.06250	89.00000	-6.6615	88.600	-0.043533	-5.4256	124.59E-6	
-2.50000	23.25000	89.00000	-6.7841	88.600	-0.046059	-5.6582	129.88E-6	
-2.50000	24.43750	89.00000	-6.9659	88.600	-0.054756	-6.1394	140.59E-6	
-2.50000	25.62500	89.00000	-7.2807	88.600	-0.11009	-7.4752	168.11E-6	
-2.50000	26.81250	89.00000	-7.8623	88.600	-0.80550	-12.472	236.59E-6	
-2.50000	28.00000	89.00000	-8.4839	88.600	-1.7156	-18.309	309.77E-6	
-2.50000	29.18750	89.00000	-9.2891	88.600	-1.7982	-20.020	344.13E-6	
-2.50000	30.37500	89.00000	-9.0271	88.600	-1.8190	-20.774	360.41E-6	
-2.50000	31.56250	89.00000	-9.1664	88.600	-1.8417	-21.379	373.04E-6	
-2.50000	32.75000	89.00000	-9.2925	88.600	-1.8849	-22.110	387.17E-6	
-2.50000	33.93750	89.00000	-9.4173	88.600	-1.9639	-23.113	406.12E-6	
-2.50000	35.12500	89.00000	-9.6624	88.600	-2.0227	-25.129	432.25E-6	
-2.50000	36.31250	89.00000	-10.053	88.600	-3.1657	-28.918	456.96E-6	
-2.50000	37.50000	89.00000	-10.846	88.600	-7.1988	-37.285	369.14E-6	
-2.50000	38.68750	89.00000	-12.499	88.600	-22.965	-53.187	-369.60E-6	
-2.50000	39.87500	89.00000	-14.271	88.600	-40.438	-70.559	-0.001921	
-2.50000	41.06250	89.00000	-15.118	88.600	-45.207	-79.907	-0.0013109	
-2.50000	42.25000	89.00000	-15.491	88.600	-46.263	-83.974	-0.0012898	
-2.50000	43.43750	89.00000	-15.667	88.600	-46.565	-85.961	-0.0012643	
-2.50000	44.62500	89.00000	-15.753	88.600	-46.674	-87.059	-0.0012462	
-2.50000	45.81250	89.00000	-15.797	88.600	-46.721	-87.721	-0.0012337	
-2.50000	47.00000	89.00000	-15.823	88.600	-46.744	-88.185	-0.0012246	
-2.50000	48.18750	89.00000	-15.841	88.600	-46.757	-88.520	-0.0012176	
-2.50000	49.37500	89.00000	-15.860	88.600	-46.765	-88.795	-0.0012118	
-2.50000	50.56250	89.00000	-15.883	88.600	-46.772	-89.047	-0.0012063	
-2.50000	51.75000	89.00000	-15.916	88.600	-46.799	-89.304	-0.0012008	
-2.50000	52.93750	89.00000	-15.962	88.600	-46.789	-89.595	-0.0011946	
-2.50000	54.12500	89.00000	-16.024	88.600	-46.803	-89.950	-0.0011873	
-2.50000	55.31250	89.00000	-16.108	88.600	-46.829	-90.414	-0.0011782	
-2.50000	56.50000	89.00000	-16.219	88.600	-46.875	-91.045	-0.0011666	
-2.50000	57.68750	89.00000	-16.362	88.600	-46.964	-91.913	-0.0011524	
-2.50000	58.87500	89.00000	-16.535	88.600	-47.121	-93.062	-0.0011365	
-2.50000	60.06250	89.00000	-16.717	88.600	-47.339	-94.385	-0.0011208	
-2.50000	61.25000	89.00000	-16.862	88.600	-47.542	-95.583	-0.0011069	
-2.50000	62.43750	89.00000	-16.930	88.600	-47.668	-96.390	-0.0010968	
-2.50000	63.62500	89.00000	-16.989	88.600	-47.726	-96.721	-0.0010931	
-2.50000	64.81250	89.00000	-16.757	88.600	-47.733	-96.556	-0.0010975	
-2.50000	66.00000	89.00000	-16.487	88.600	-47.692	-95.818	-0.0011119	
-2.50000	67.18750	89.00000	-16.053	88.600	-47.562	-94.268	-0.0011393	
-2.50000	68.37500	89.00000	-15.382	88.600	-47.195	-91.312	-0.0011829	
-2.50000	69.56250	89.00000	-14.317	88.600	-45.945	-85.417	-0.0012334	
-2.50000	70.75000	89.00000	-12.492	88.600	-40.425	-72.476	-0.0011482	
-2.50000	71.93750	89.00000	-9.4000	88.600	-21.145	-47.319	-379.20E-6	
-2.50000	73.12500	89.00000	-6.5681	88.600	-5.3083	-24.702	206.51E-6	
-2.50000	74.31250	89.00000	-4.9328	88.600	-1.4546	-13.893	224.20E-6	
-2.50000	75.50000	89.00000	-3.9181	88.600	-0.53080	-8.7562	168.56E-6	
-2.50000	76.68750	89.00000	-3.2211	88.600	-0.23773	-5.9789	123.90E-6	
-2.50000	77.87500	89.00000	-2.7075	88.600	-0.12214	-4.3148	92.903E-6	
-2.50000	79.06250	89.00000	-2.3101	88.600	-0.069087	-3.2416	71.397E-6	
-2.50000	80.25000	89.00000	-1.9924	88.600	-0.041941	-2.5110	56.121E-6	
-2.50000	81.43750	89.00000	-1.7320	88.600	-0.026978	-1.9926	44.997E-6	
-2.50000	82.62500	89.00000	-1.5150	88.600	-0.019798	-1.6125	36.672E-6	
-2.50000	83.81250	89.00000	-1.3316	88.600	-0.012451	-1.3264	30.331E-6	
-2.50000	85.00000	89.00000	-1.1750	88.600	-0.0088754	-1.1063	25.404E-6	
-1.25000	-10.00000	89.00000	-1.4364	88.600	-312.90E-6	-0.43432	10.197E-6	
-1.25000	-8.81250	89.00000	-1.6102	88.600	-442.22E-6	-0.51484	12.083E-6	
-1.25000	-7.62500	89.00000	-1.8096	88.600	-653.81E-6	-0.61982	14.538E-6	
-1.25000	-6.43750	89.00000	-2.0402	88.600	-0.0010256	-0.76096	17.833E-6	
-1.25000	-5.25000	89.00000	-2.3101	88.600	-0.0017453	-0.95880	22.437E-6	
-1.25000	-4.06250	89.00000	-2.6314	88.600	-0.0033389	-1.2528	29.242E-6	
-1.25000	-2.87500	89.00000	-3.0240	88.600	-0.0076214	-1.6122	38.122E-6	
-1.25000	-1.68750	89.00000	-3.5211	88.600	-0.022744	-2.5928	59.402E-6	
-1.25000	-0.50000	89.00000	-4.1599	88.600	-0.089392	-4.3233	95.416E-6	
-1.25000	0.68750	89.00000	-4.8765	88.600	-0.22524	-6.7709	143.42E-6	
-1.25000	1.87500	89.00000	-5.4845	88.600	-0.27839	-8.3214	176.15E-6	
-1.25000	3.06250	89.00000	-6.0289	88.600	-0.29050	-9.0920	193.42E-6	
-1.25000	4.25000	89.00000	-6.3088	88.600	-0.29407	-9.5181	203.20E-6	
-1.25000	5.43750	89.00000	-6.5984	88.600	-0.29544	-9.7812	209.29E-6	
-1.25000	6.62500	89.00000	-6.8366	88.600	-0.29607	-9.9573	213.39E-6	
-1.25000	7.81250	89.00000	-7.0360	88.600	-0.29640	-10.083	216.31E-6	
-1.25000	9.00000	89.00000	-7.2050	88.600	-0.29661	-10.176	218.50E-6	
-1.25000	10.18750	89.00000	-7.3497	88.600	-0.29675	-10.250	220.22E-6	
-1.25000	11.37500	89.00000	-7.4749	88.600	-0.29686	-10.309	221.62E-6	
-1.25000	12.56250	89.00000	-7.5842	88.600	-0.29696	-10.361	222.82E-6	
-1.25000	13.75000	89.00000	-7.6809	88.600	-0.29707	-10.407	223.90E-6	
-1.25000	14.93750	89.00000	-7.7657	88.600	-0.29719	-10.449	224.93E-6	
-1.25000	16.12500	89.00000	-7.8472	88.600	-0.297			



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	X [m]	Location Y [m]	Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-1.25000	47.00000	89.00000	-16.375	88.600	-47.324	-91.195	-0.0011947
	-1.25000	48.18750	89.00000	-16.371	88.600	-47.337	-91.513	-0.0011882
	-1.25000	49.37500	89.00000	-16.369	88.600	-47.345	-91.767	-0.0011828
	-1.25000	50.56250	89.00000	-16.372	88.600	-47.352	-91.990	-0.0011780
	-1.25000	51.75000	89.00000	-16.384	88.600	-47.357	-92.208	-0.0011733
	-1.25000	52.93750	89.00000	-16.404	88.600	-47.364	-92.439	-0.0011683
	-1.25000	54.12500	89.00000	-16.436	88.600	-47.374	-92.704	-0.0011628
	-1.25000	55.31250	89.00000	-16.481	88.600	-47.388	-93.024	-0.0011563
	-1.25000	56.50000	89.00000	-16.538	88.600	-47.411	-93.418	-0.0011486
	-1.25000	57.68750	89.00000	-16.606	88.600	-47.447	-93.902	-0.0011397
	-1.25000	58.87500	89.00000	-16.679	88.600	-47.497	-94.463	-0.0011301
	-1.25000	60.06250	89.00000	-16.743	88.600	-47.558	-95.043	-0.0011207
	-1.25000	61.25000	89.00000	-16.776	88.600	-47.614	-95.534	-0.0011131
	-1.25000	62.43750	89.00000	-16.757	88.600	-47.653	-95.829	-0.0011089
	-1.25000	63.62500	89.00000	-16.667	88.600	-47.669	-95.846	-0.0011096
	-1.25000	64.81250	89.00000	-16.490	88.600	-47.659	-95.510	-0.0011168
	-1.25000	66.00000	89.00000	-16.202	88.600	-47.610	-94.695	-0.0011326
	-1.25000	67.18750	89.00000	-15.764	88.600	-47.480	-93.135	-0.0011601
	-1.25000	68.37500	89.00000	-15.102	88.600	-47.117	-90.222	-0.0012030
	-1.25000	69.56250	89.00000	-14.056	88.600	-45.874	-84.418	-0.0012519
	-1.25000	70.75000	89.00000	-12.258	88.600	-40.366	-71.608	-0.0013165
	-1.25000	71.93750	89.00000	-9.1988	88.600	-21.099	-46.606	-392.75E-6
	-1.25000	73.12500	89.00000	-6.4010	88.600	-5.2764	-24.146	195.69E-6
	-1.25000	74.31250	89.00000	-4.7973	88.600	-1.4339	-13.477	215.88E-6
	-1.25000	75.50000	89.00000	-3.8099	88.600	-0.51791	-8.4523	162.32E-6
	-1.25000	76.68750	89.00000	-2.6392	88.600	-0.23982	-4.7592	139.28E-6
	-1.25000	77.87500	89.00000	-2.6392	88.600	-0.11735	-4.1561	89.507E-6
	-1.25000	79.06250	89.00000	-2.2558	88.600	-0.066127	-3.1263	68.893E-6
	-1.25000	80.25000	89.00000	-1.9488	88.600	-0.040081	-2.4265	54.264E-6
	-1.25000	81.43750	89.00000	-1.6969	88.600	-0.025687	-1.9300	43.598E-6
	-1.25000	82.62500	89.00000	-1.5000	88.600	-0.017200	-1.5657	35.623E-6
	-1.25000	83.81250	89.00000	-1.3084	88.600	-0.011933	-1.2910	29.533E-6
	-1.25000	85.00000	89.00000	-1.1559	88.600	-0.0085243	-1.0791	24.790E-6
	0.00000	-10.00000	89.00000	-1.5193	88.600	-364.51E-6	-0.47125	11.062E-6
	0.00000	-8.81250	89.00000	-1.7113	88.600	-528.09E-6	-0.56539	13.266E-6
	0.00000	-7.62500	89.00000	-1.9343	88.600	-805.37E-6	-0.69098	16.201E-6
	0.00000	-6.43750	89.00000	-2.1962	88.600	-0.0013160	-0.86497	20.259E-6
	0.00000	-5.25000	89.00000	-2.5094	88.600	-0.0023733	-1.1193	26.168E-6
	0.00000	-4.06250	89.00000	-2.8942	88.600	-0.0049971	-1.5224	35.469E-6
	0.00000	-2.87500	89.00000	-3.3311	88.600	-0.013634	-2.2542	52.078E-6
	0.00000	-1.68750	89.00000	-4.0935	88.600	-0.063785	-3.9802	89.140E-6
	0.00000	-0.50000	89.00000	-5.2757	88.600	-1.4284	-12.072	183.23E-6
	0.00000	0.68750	89.00000	-6.7775	88.600	-23.295	-47.623	-523.85E-6
	0.00000	1.87500	89.00000	-8.7329	88.600	-23.953	-53.408	-434.16E-6
	0.00000	3.06250	89.00000	-9.3718	88.600	-23.999	-54.856	-402.61E-6
	0.00000	4.25000	89.00000	-9.8198	88.600	-23.996	-55.939	-388.13E-6
	0.00000	5.43750	89.00000	-10.160	88.600	-23.998	-55.843	-380.03E-6
	0.00000	6.62500	89.00000	-10.431	88.600	-23.999	-56.063	-374.93E-6
	0.00000	7.81250	89.00000	-10.652	88.600	-23.999	-56.211	-371.46E-6
	0.00000	9.00000	89.00000	-10.836	88.600	-24.000	-56.319	-368.95E-6
	0.00000	10.18750	89.00000	-10.991	88.600	-24.000	-56.400	-367.05E-6
	0.00000	11.37500	89.00000	-11.124	88.600	-24.000	-56.465	-365.53E-6
	0.00000	12.56250	89.00000	-11.238	88.600	-24.000	-56.519	-364.26E-6
	0.00000	13.75000	89.00000	-11.338	88.600	-24.000	-56.567	-363.14E-6
	0.00000	14.93750	89.00000	-11.426	88.600	-24.000	-56.610	-362.09E-6
	0.00000	16.12500	89.00000	-11.507	88.600	-24.000	-56.657	-361.05E-6
	0.00000	17.31250	89.00000	-11.581	88.600	-24.001	-56.705	-359.93E-6
	0.00000	18.50000	89.00000	-11.653	88.600	-24.001	-56.760	-358.65E-6
	0.00000	19.68750	89.00000	-11.725	88.600	-24.001	-56.829	-357.06E-6
	0.00000	20.87500	89.00000	-11.803	88.600	-24.002	-56.923	-354.91E-6
	0.00000	22.06250	89.00000	-11.895	88.600	-24.003	-57.064	-351.66E-6
	0.00000	23.25000	89.00000	-12.018	88.600	-24.006	-57.316	-345.94E-6
	0.00000	24.43750	89.00000	-12.212	88.600	-24.018	-57.885	-333.36E-6
	0.00000	25.62500	89.00000	-12.592	88.600	-24.128	-59.887	-294.49E-6
	0.00000	26.81250	89.00000	-13.158	88.600	-32.723	-78.171	-470.57E-6
	0.00000	28.00000	89.00000	-15.261	88.600	-47.728	-103.55	-932.67E-6
	0.00000	29.18750	89.00000	-15.681	88.600	-47.907	-106.18	-883.25E-6
	0.00000	30.37500	89.00000	-15.877	88.600	-47.932	-107.04	-864.80E-6
	0.00000	31.56250	89.00000	-15.990	88.600	-47.956	-107.66	-852.00E-6
	0.00000	32.75000	89.00000	-16.075	88.600	-48.002	-108.08	-838.32E-6
	0.00000	33.93750	89.00000	-16.163	88.600	-48.106	-109.45	-820.51E-6
	0.00000	35.12500	89.00000	-16.292	88.600	-48.388	-111.28	-797.18E-6
	0.00000	36.31250	89.00000	-16.522	88.600	-49.522	-114.78	-781.11E-6
	0.00000	37.50000	89.00000	-16.955	88.600	-53.316	-121.48	-905.03E-6
	0.00000	38.68750	89.00000	-17.121	88.600	-55.511	-117.271	-0.0012532
	0.00000	39.87500	89.00000	-16.309	88.600	-41.777	-81.296	-0.0010361
	0.00000	41.06250	89.00000	-16.427	88.600	-45.751	-84.376	-0.0012442
	0.00000	42.25000	89.00000	-16.495	88.600	-46.807	-87.440	-0.0012466
	0.00000	43.43750	89.00000	-16.507	88.600	-47.119	-89.130	-0.0012288
	0.00000	44.62500	89.00000	-16.459	88.600	-47.232	-90.123	-0.0012140
	0.00000	45.81250	89.00000	-16.458	88.600	-47.281	-90.700	-0.0012034
	0.00000	47.00000	89.00000	-16.425	88.600	-47.304	-91.100	-0.0011956
	0.00000	48.18750	89.00000	-16.395	88.600	-47.317	-91.388	-0.0011897
	0.00000	49.37500	89.00000	-16.371	88.600	-47.325	-91.614	-0.0011850
	0.00000	50.56250	89.00000	-16.353	88.600	-47.331	-91.807	-0.0011808
	0.00000	51.75000	89.00000	-16.344	88.600	-47.336	-91.987	-0.0011769
	0.00000	52.93750	89.00000	-16.342	88.600	-47.341	-92.169	-0.0011730
	0.00000	54.12500	89.00000	-16.348	88.600	-47.347	-92.364	-0.0011688
	0.00000	55.31250	89.00000	-16.360	88.600	-47.355	-92.582	-0.0011643
	0.00000	56.50000	89.00000	-16.379	88.600	-47.366	-92.828	-0.0011593
	0.00000	57.68750	89.00000	-16.398	88.600	-47.382	-93.102	-0.0011540
	0.00000	58.87500	89.00000	-16.414	88.600	-47.401	-93.387	-0.0011486
	0.00000	60.06250	89.00000	-16.414	88.600	-47.422	-93.648	-0.0011439
	0.00000	61.25000	89.00000	-16.388	88.600	-47.440	-93.835	-0.0011408
	0.00000	62.43750	89.00000	-16.370	88.600	-47.451	-93.899	-0.0011384
	0.00000	63.62500	89.00000	-16.197	88.600	-47.451	-93.743	-0.0011438
	0.00000	64.81250	89.00000	-16.000	88.600	-47.433	-93.320	-0.0011525
	0.00000	66.00000	89.00000	-15.707	88.600	-47.383	-92.484	-0.0011686
	0.00000	67.18750	89.00000	-15.277	88.600	-47.257	-90.967	-0.0011954
	0.00000	68.37500	89.00000	-14.638	88.600	-46.904	-88.666	-0.0012364
	0.00000	69.56250	89.00000	-13.630	88.600	-45.682	-82.556	-0.0012821
	0.00000	70.75000	89.00000	-11.884	88.600	-40.207	-70.023	-0.0011905
	0.00000	71.93750	89.00000	-8.8669	88.600	-20.984	-45.355	-414.06E-6
	0.00000	73.12500	89.00000	-6.1516	88.600	-5.2038	-23.226	179.17E-6
	0.00000	74.31250	89.00000	-4.1250	88.600	-1.3923	-12.931	203.62E-6
	0.00000	75.50000	89.00000	-3.6596	88.600	-0.49505	-8.0072	153.46E-6
	0.00000	76.68750	89.00000	-3.0185	88.600	-0.21726	-5.4518	112.94E-6
	0.00000	77.87500	89.00000	-2.5479	88.600	-0.10221	-3.9413	84.956E-6
	0.00000	79.06250	89.00000	-2.1836	88.600	-0.06196	-2.9737	65.597E-6
	0.00000	80.25000	89.00000	-1.8912	88.600	-0.037560	-2.3163	51.850E-6
	0.00000	81.43750	89.00000	-1.6505	88.600	-0.024115	-1.8491	41.807E-6
	0.00000	82.62500	89.00000	-1.4489	88.600	-0.016192	-1.5054	34.279E-6
	0.00000	83.81250	89.00000	-1.2776	88.600	-0.011270	-1.2455	



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
1.25000	22.06250	89.00000	-15.500	88.600	-47.706	-103.18	-939.79E-6	
1.25000	23.25000	89.00000	-15.603	88.600	-47.708	-103.38	-935.20E-6	
1.25000	24.43750	89.00000	-15.747	88.600	-47.714	-103.76	-926.73E-6	
1.25000	25.62500	89.00000	-15.973	88.600	-47.738	-104.59	-908.87E-6	
1.25000	26.81250	89.00000	-16.312	88.600	-47.838	-106.39	-873.50E-6	
1.25000	28.00000	89.00000	-16.658	88.600	-47.953	-108.26	-835.33E-6	
1.25000	29.18750	89.00000	-16.883	88.600	-47.987	-109.39	-813.40E-6	
1.25000	30.37500	89.00000	-17.011	88.600	-48.004	-109.99	-800.44E-6	
1.25000	31.56250	89.00000	-17.084	88.600	-48.026	-110.52	-789.65E-6	
1.25000	32.75000	89.00000	-17.130	88.600	-48.069	-111.16	-777.57E-6	
1.25000	33.93750	89.00000	-17.132	88.600	-48.166	-112.32	-761.82E-6	
1.25000	35.12500	89.00000	-17.237	88.600	-48.431	-113.78	-741.55E-6	
1.25000	36.31250	89.00000	-17.381	88.600	-49.332	-117.01	-728.99E-6	
1.25000	37.50000	89.00000	-17.733	88.600	-53.324	-123.96	-847.40E-6	
1.25000	38.68750	89.00000	-18.384	88.600	-67.814	-131.47	-0.0016935	
1.25000	39.87500	89.00000	-16.686	88.600	-42.010	-83.692	-998.25E-6	
1.25000	41.06250	89.00000	-16.412	88.600	-45.190	-82.560	-0.0012473	
1.25000	42.25000	89.00000	-16.293	88.600	-46.179	-84.802	-0.0012644	
1.25000	43.43750	89.00000	-16.196	88.600	-46.470	-86.159	-0.0012530	
1.25000	44.62500	89.00000	-16.109	88.600	-46.575	-86.962	-0.0012415	
1.25000	45.81250	89.00000	-16.022	88.600	-46.621	-87.668	-0.0012328	
1.25000	47.00000	89.00000	-15.962	88.600	-46.643	-87.810	-0.0012263	
1.25000	48.18750	89.00000	-15.904	88.600	-46.654	-88.058	-0.0012213	
1.25000	49.37500	89.00000	-15.856	88.600	-46.662	-88.251	-0.0012173	
1.25000	50.56250	89.00000	-15.818	88.600	-46.667	-88.413	-0.0012138	
1.25000	51.75000	89.00000	-15.789	88.600	-46.671	-88.549	-0.0012106	
1.25000	52.93750	89.00000	-15.766	88.600	-46.674	-88.700	-0.0012076	
1.25000	54.12500	89.00000	-15.750	88.600	-46.678	-88.842	-0.0012046	
1.25000	55.31250	89.00000	-15.738	88.600	-46.683	-88.989	-0.0012014	
1.25000	56.50000	89.00000	-15.728	88.600	-46.689	-89.143	-0.0011982	
1.25000	57.68750	89.00000	-15.715	88.600	-46.696	-89.297	-0.0011951	
1.25000	58.87500	89.00000	-15.695	88.600	-46.704	-89.438	-0.0011924	
1.25000	60.06250	89.00000	-15.659	88.600	-46.712	-89.545	-0.0011904	
1.25000	61.25000	89.00000	-15.599	88.600	-46.718	-89.587	-0.0011898	
1.25000	62.43750	89.00000	-15.504	88.600	-46.719	-89.523	-0.0011914	
1.25000	63.62500	89.00000	-15.363	88.600	-46.713	-89.302	-0.0011962	
1.25000	64.81250	89.00000	-15.159	88.600	-46.693	-88.852	-0.0012054	
1.25000	66.00000	89.00000	-14.872	88.600	-46.646	-88.045	-0.0012210	
1.25000	67.18750	89.00000	-14.464	88.600	-46.529	-86.632	-0.0012460	
1.25000	68.37500	89.00000	-13.866	88.600	-46.389	-84.045	-0.0012836	
1.25000	69.56250	89.00000	-12.926	88.600	-45.033	-78.817	-0.0013243	
1.25000	70.75000	89.00000	-11.279	88.600	-39.674	-66.897	-0.0012265	
1.25000	71.93750	89.00000	-8.4048	88.600	-20.630	-43.031	-443.72E-6	
1.25000	73.12500	89.00000	-5.7905	88.600	-15.070	-21.678	155.93E-6	
1.25000	74.31250	89.00000	-4.3385	88.600	-11.3057	-11.852	186.70E-6	
1.25000	75.50000	89.00000	-3.4643	88.600	-8.4615	-7.3865	141.47E-6	
1.25000	76.68750	89.00000	-2.8715	88.600	-6.1973	-5.0477	104.80E-6	
1.25000	77.87500	89.00000	-2.4348	88.600	-4.10022	-3.6696	79.270E-6	
1.25000	79.06250	89.00000	-2.0951	88.600	-2.056459	-2.7856	61.559E-6	
1.25000	80.25000	89.00000	-1.8269	88.600	-0.034371	-2.163	48.929E-6	
1.25000	81.43750	89.00000	-1.5940	88.600	-0.022180	-1.7519	39.656E-6	
1.25000	82.62500	89.00000	-1.4030	88.600	-0.014973	-1.4334	32.670E-6	
1.25000	83.81250	89.00000	-1.2399	88.600	-0.010478	-1.1912	27.288E-6	
1.25000	85.00000	89.00000	-1.0994	88.600	-0.0075490	-1.0029	23.064E-6	
2.50000	-8.12500	89.00000	-1.6725	88.600	-474.63E-6	-0.543394	12.765E-6	
2.50000	-7.81250	89.00000	-1.9003	88.600	-714.77E-6	-0.66651	15.632E-6	
2.50000	-6.81250	89.00000	-2.1701	88.600	-0.0011397	-0.83562	19.581E-6	
2.50000	-6.43750	89.00000	-2.4949	88.600	-0.0019588	-1.0792	25.255E-6	
2.50000	-5.25000	89.00000	-2.8948	88.600	-0.0037345	-1.4517	33.895E-6	
2.50000	-4.06250	89.00000	-3.4250	88.600	-0.0083223	-2.0766	48.203E-6	
2.50000	-2.87500	89.00000	-4.0999	88.600	-0.024195	-3.2735	75.315E-6	
2.50000	-1.68750	89.00000	-5.1548	88.600	-0.12096	-6.3286	140.37E-6	
2.50000	-0.50000	89.00000	-7.1167	88.600	-2.8424	-21.935	315.49E-6	
2.50000	0.68750	89.00000	-11.492	88.600	-46.566	-92.353	-0.0011140	
2.50000	1.31875	89.00000	-13.186	88.600	-47.874	-103.23	-948.07E-6	
2.50000	3.06250	89.00000	-14.119	88.600	-47.941	-105.79	-894.83E-6	
2.50000	4.25000	89.00000	-14.714	88.600	-47.953	-106.77	-872.70E-6	
2.50000	5.43750	89.00000	-15.140	88.600	-47.957	-107.27	-861.27E-6	
2.50000	6.62500	89.00000	-15.464	88.600	-47.958	-107.56	-854.53E-6	
2.50000	7.81250	89.00000	-15.720	88.600	-47.959	-107.74	-850.19E-6	
2.50000	9.00000	89.00000	-15.927	88.600	-47.959	-107.87	-847.19E-6	
2.50000	10.18750	89.00000	-16.097	88.600	-47.959	-107.96	-845.02E-6	
2.50000	11.37500	89.00000	-16.238	88.600	-47.959	-108.04	-843.36E-6	
2.50000	12.56250	89.00000	-16.358	88.600	-47.959	-108.09	-842.03E-6	
2.50000	13.75000	89.00000	-16.459	88.600	-47.960	-108.14	-840.90E-6	
2.50000	14.93750	89.00000	-16.547	88.600	-47.960	-108.18	-839.87E-6	
2.50000	16.12500	89.00000	-16.625	88.600	-47.960	-108.23	-838.88E-6	
2.50000	17.31250	89.00000	-16.695	88.600	-47.960	-108.27	-837.86E-6	
2.50000	18.50000	89.00000	-16.760	88.600	-47.960	-108.32	-836.72E-6	
2.50000	19.68750	89.00000	-16.822	88.600	-47.961	-108.38	-835.37E-6	
2.50000	20.87500	89.00000	-16.885	88.600	-47.961	-108.45	-833.66E-6	
2.50000	22.06250	89.00000	-16.954	88.600	-47.962	-108.55	-831.33E-6	
2.50000	23.25000	89.00000	-17.033	88.600	-47.963	-108.70	-827.95E-6	
2.50000	24.43750	89.00000	-17.131	88.600	-47.966	-108.93	-822.76E-6	
2.50000	25.62500	89.00000	-17.255	88.600	-47.972	-109.29	-814.70E-6	
2.50000	26.81250	89.00000	-17.402	88.600	-47.982	-109.80	-803.50E-6	
2.50000	28.00000	89.00000	-17.543	88.600	-47.994	-110.34	-791.51E-6	
2.50000	29.18750	89.00000	-17.649	88.600	-48.004	-110.81	-781.33E-6	
2.50000	30.37500	89.00000	-17.732	88.600	-48.016	-111.21	-772.77E-6	
2.50000	31.56250	89.00000	-17.739	88.600	-48.025	-111.62	-764.31E-6	
2.50000	32.75000	89.00000	-17.741	88.600	-48.072	-112.15	-754.39E-6	
2.50000	33.93750	89.00000	-17.729	88.600	-48.156	-112.95	-741.54E-6	
2.50000	35.12500	89.00000	-17.718	88.600	-48.382	-114.31	-725.53E-6	
2.50000	36.31250	89.00000	-17.747	88.600	-49.166	-116.98	-718.12E-6	
2.50000	37.50000	89.00000	-17.940	88.600	-52.782	-122.84	-695.42E-6	
2.50000	38.68750	89.00000	-18.293	88.600	-66.374	-128.56	-0.0016604	
2.50000	39.87500	89.00000	-16.234	88.600	-39.540	-78.036	-954.95E-6	
2.50000	41.06250	89.00000	-15.664	88.600	-42.253	-75.111	-0.0012153	
2.50000	42.25000	89.00000	-15.358	88.600	-43.101	-76.458	-0.0012434	
2.50000	43.43750	89.00000	-15.146	88.600	-43.347	-77.95	-0.0012165	
2.50000	44.62500	89.00000	-14.983	88.600	-43.437	-77.967	-0.0012316	
2.50000	45.81250	89.00000	-14.853	88.600	-43.476	-78.349	-0.0012254	
2.50000	47.00000	89.00000	-14.748	88.600	-43.495	-78.616	-0.0012204	
2.50000	48.18750	89.00000	-14.661	88.600	-43.505	-78.815	-0.0012165	
2.50000	49.37500	89.00000	-14.591	88.600	-43.512	-78.971	-0.0012133	
2.50000	50.56250	89.00000	-14.533	88.600	-43.516	-79.102	-0.0012105	
2.50000	51.75000	89.00000	-14.485	88.600	-43.519	-79.218	-0.0012080	
2.50000	52.93750	89.00000	-14.445	88.600	-43.522	-79.325	-0.0012057	
2.50000	54.12500	89.00000	-14.410	88.600	-43.525	-79.427	-0.0012035	
2.50000	55.31250	89.00000	-14.379	88.600	-43.528	-79.525	-0.0012014	
2.50000	56.50000	89.00000	-14.347	88.600	-43.531	-79.619	-0.0011994	
2.50000	57.68750	89.00000	-14.312	88.600	-43.535	-79.703	-0.0011977	
2.50000	58.87500	89.00000	-14.269	88.600	-43.538	-79.766	-0.0011964	
2.50000	60.06250	89.00000	-14.211	88.600	-43.541	-79.793	-0.0011960	
2.50000	61.25000	89.00000	-14.139	88.600	-43.542	-79.802	-0.0011968	
2.50000	62.43750	89.00000	-14.023	88.600	-43.540	-79.643	-0.0011994	
2.50000	63.62500	89.00000	-13.875	88.600	-43.532	-79.398	-0.00	



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [moD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
3.75000	-2.87500	89.00000	-4.4132	88.600	-0.028599	-3.7268	85.671E-6	
3.75000	-1.68750	89.00000	-5.5767	88.600	-0.13122	-7.0815	157.36E-6	
3.75000	-0.50000	89.00000	-7.6592	88.600	-2.8606	-23.048	340.39E-6	
3.75000	0.68750	89.00000	-12.139	88.600	-46.590	-93.757	-0.001082E-6	
3.75000	1.87500	89.00000	-13.920	88.600	-47.900	-104.91	-912.76E-6	
3.75000	3.06250	89.00000	-14.895	88.600	-47.959	-107.47	-857.31E-6	
3.75000	4.25000	89.00000	-15.524	88.600	-47.981	-108.50	-833.97E-6	
3.75000	5.43750	89.00000	-15.974	88.600	-47.985	-109.03	-821.86E-6	
3.75000	6.62500	89.00000	-16.313	88.600	-47.986	-109.33	-814.74E-6	
3.75000	7.81250	89.00000	-16.579	88.600	-47.987	-109.53	-810.19E-6	
3.75000	9.00000	89.00000	-16.771	88.600	-47.987	-109.66	-807.09E-6	
3.75000	10.18750	89.00000	-16.964	88.600	-47.987	-109.75	-804.88E-6	
3.75000	11.37500	89.00000	-17.106	88.600	-47.987	-109.83	-803.23E-6	
3.75000	12.56250	89.00000	-17.224	88.600	-47.988	-109.88	-801.93E-6	
3.75000	13.75000	89.00000	-17.324	88.600	-47.988	-109.93	-800.84E-6	
3.75000	14.93750	89.00000	-17.409	88.600	-47.988	-109.97	-799.87E-6	
3.75000	16.12500	89.00000	-17.483	88.600	-47.988	-110.01	-799.95E-6	
3.75000	17.31250	89.00000	-17.548	88.600	-47.988	-110.05	-799.01E-6	
3.75000	18.50000	89.00000	-17.608	88.600	-47.988	-110.09	-796.98E-6	
3.75000	19.68750	89.00000	-17.663	88.600	-47.989	-110.14	-795.80E-6	
3.75000	20.87500	89.00000	-17.717	88.600	-47.989	-110.17	-794.35E-6	
3.75000	22.06250	89.00000	-17.771	88.600	-47.990	-110.29	-792.50E-6	
3.75000	23.25000	89.00000	-17.829	88.600	-47.991	-110.39	-790.05E-6	
3.75000	24.43750	89.00000	-17.892	88.600	-47.992	-110.54	-786.74E-6	
3.75000	25.62500	89.00000	-17.961	88.600	-47.995	-110.73	-782.38E-6	
3.75000	26.81250	89.00000	-18.031	88.600	-47.998	-111.07	-777.04E-6	
3.75000	28.00000	89.00000	-18.091	88.600	-48.003	-111.23	-771.22E-6	
3.75000	29.18750	89.00000	-18.130	88.600	-48.009	-111.50	-765.41E-6	
3.75000	30.37500	89.00000	-18.143	88.600	-48.018	-111.77	-759.59E-6	
3.75000	31.56250	89.00000	-18.127	88.600	-48.033	-112.08	-753.28E-6	
3.75000	32.75000	89.00000	-18.084	88.600	-48.062	-112.49	-745.77E-6	
3.75000	33.93750	89.00000	-18.014	88.600	-48.127	-113.09	-736.34E-6	
3.75000	35.12500	89.00000	-17.918	88.600	-48.294	-114.05	-725.44E-6	
3.75000	36.31250	89.00000	-17.800	88.600	-48.838	-115.80	-722.73E-6	
3.75000	37.50000	89.00000	-17.667	88.600	-51.217	-119.17	-611.37E-6	
3.75000	38.68750	89.00000	-17.521	88.600	-59.418	-118.70	-0.0014013	
3.75000	39.87500	89.00000	-14.558	88.600	-26.664	-61.500	-435.13E-6	
3.75000	41.06250	89.00000	-13.596	88.600	-27.890	-55.548	-661.66E-6	
3.75000	42.25000	89.00000	-13.079	88.600	-28.452	-55.685	-698.13E-6	
3.75000	43.43750	89.00000	-12.742	88.600	-28.627	-56.069	-601.48E-6	
3.75000	44.62500	89.00000	-12.501	88.600	-28.695	-56.382	-698.91E-6	
3.75000	45.81250	89.00000	-12.318	88.600	-28.726	-56.619	-695.49E-6	
3.75000	47.00000	89.00000	-12.176	88.600	-28.741	-56.801	-692.30E-6	
3.75000	48.18750	89.00000	-12.062	88.600	-28.750	-56.946	-689.53E-6	
3.75000	49.37500	89.00000	-11.969	88.600	-28.756	-57.064	-687.14E-6	
3.75000	50.56250	89.00000	-11.893	88.600	-28.759	-57.164	-685.03E-6	
3.75000	51.75000	89.00000	-11.829	88.600	-28.762	-57.252	-683.15E-6	
3.75000	52.93750	89.00000	-11.773	88.600	-28.764	-57.331	-681.45E-6	
3.75000	54.12500	89.00000	-11.724	88.600	-28.766	-57.403	-679.89E-6	
3.75000	55.31250	89.00000	-11.677	88.600	-28.768	-57.467	-678.50E-6	
3.75000	56.50000	89.00000	-11.630	88.600	-28.770	-57.522	-677.34E-6	
3.75000	57.68750	89.00000	-11.580	88.600	-28.771	-57.563	-676.50E-6	
3.75000	58.87500	89.00000	-11.521	88.600	-28.773	-57.581	-676.17E-6	
3.75000	60.06250	89.00000	-11.450	88.600	-28.773	-57.566	-676.58E-6	
3.75000	61.25000	89.00000	-11.360	88.600	-28.773	-57.530	-678.07E-6	
3.75000	62.43750	89.00000	-11.246	88.600	-28.769	-57.363	-681.08E-6	
3.75000	63.62500	89.00000	-11.099	88.600	-28.762	-57.121	-686.22E-6	
3.75000	64.81250	89.00000	-10.908	88.600	-28.746	-56.728	-694.36E-6	
3.75000	66.00000	89.00000	-10.660	88.600	-28.712	-56.097	-706.81E-6	
3.75000	67.18750	89.00000	-10.331	88.600	-28.635	-55.071	-725.53E-6	
3.75000	68.37500	89.00000	-9.8767	88.600	-28.429	-53.301	-752.62E-6	
3.75000	69.56250	89.00000	-9.2085	88.600	-27.724	-49.917	-782.51E-6	
3.75000	70.75000	89.00000	-8.1099	88.600	-24.490	-42.507	-728.56E-6	
3.75000	71.93750	89.00000	-6.2540	88.600	-12.680	-27.812	-240.63E-6	
3.75000	73.12500	89.00000	-4.5602	88.600	-3.0467	-4.663	-129.94E-6	
3.75000	74.31250	89.00000	-3.5793	88.600	-0.81539	-8.5133	142.76E-6	
3.75000	75.50000	89.00000	-2.9515	88.600	-0.29858	-5.5914	110.48E-6	
3.75000	76.68750	89.00000	-2.5022	88.600	-0.13641	-3.9815	84.053E-6	
3.75000	77.87500	89.00000	-2.1571	88.600	-0.072106	-2.9891	65.241E-6	
3.75000	79.06250	89.00000	-1.8798	88.600	-0.042322	-2.3279	-61.800E-6	
3.75000	80.25000	89.00000	-1.6505	88.600	-0.026436	-1.8624	41.954E-6	
3.75000	81.43750	89.00000	-1.4569	88.600	-0.017505	-1.5210	34.553E-6	
3.75000	82.62500	89.00000	-1.2913	88.600	-0.012081	-1.2628	28.861E-6	
3.75000	83.81250	89.00000	-1.1480	88.600	-0.0086172	-1.0627	24.395E-6	
3.75000	85.00000	89.00000	-1.0231	88.600	-0.0063135	-0.90437	20.834E-6	
5.00000	-10.00000	89.00000	-1.7959	88.600	-582.76E-6	-0.60767	14.257E-6	
5.00000	-8.81250	89.00000	-2.0546	88.600	-904.96E-6	-0.75717	17.752E-6	
5.00000	-7.62500	89.00000	-2.3657	88.600	-0.0014969	-0.96861	22.685E-6	
5.00000	-6.43750	89.00000	-2.7467	88.600	-0.0026907	-1.2821	29.978E-6	
5.00000	-5.25000	89.00000	-3.2059	88.600	-0.0054254	-1.7777	41.446E-6	
5.00000	-4.06250	89.00000	-3.8527	88.600	-0.012946	-2.6351	61.088E-6	
5.00000	-2.87500	89.00000	-4.7224	88.600	-0.040163	-4.3304	99.057E-6	
5.00000	-1.68750	89.00000	-6.0278	88.600	-0.18644	-8.4322	185.24E-6	
5.00000	-0.50000	89.00000	-8.2260	88.600	-2.9730	-25.084	380.36E-6	
5.00000	0.68750	89.00000	-12.693	88.600	-46.636	-95.203	-0.0010519	
5.00000	1.87500	89.00000	-14.442	88.600	-47.914	-105.89	-890.65E-6	
5.00000	3.06250	89.00000	-15.411	88.600	-47.977	-108.32	-837.89E-6	
5.00000	4.25000	89.00000	-16.047	88.600	-47.988	-109.32	-815.13E-6	
5.00000	5.43750	89.00000	-16.503	88.600	-47.992	-109.84	-803.09E-6	
5.00000	6.62500	89.00000	-16.848	88.600	-47.993	-110.15	-795.94E-6	
5.00000	7.81250	89.00000	-17.116	88.600	-47.994	-110.35	-791.38E-6	
5.00000	9.00000	89.00000	-17.329	88.600	-47.994	-110.48	-788.31E-6	
5.00000	10.18750	89.00000	-17.500	88.600	-47.994	-110.57	-786.17E-6	
5.00000	11.37500	89.00000	-17.639	88.600	-47.994	-110.64	-784.59E-6	
5.00000	12.56250	89.00000	-17.753	88.600	-47.994	-110.69	-783.58E-6	
5.00000	13.75000	89.00000	-17.849	88.600	-47.995	-110.73	-782.39E-6	
5.00000	14.93750	89.00000	-17.929	88.600	-47.995	-110.77	-781.52E-6	
5.00000	16.12500	89.00000	-17.998	88.600	-47.995	-110.80	-780.69E-6	
5.00000	17.31250	89.00000	-18.058	88.600	-47.995	-110.84	-779.86E-6	
5.00000	18.50000	89.00000	-18.111	88.600	-47.995	-110.88	-779.96E-6	
5.00000	19.68750	89.00000	-18.158	88.600	-47.995	-110.92	-777.94E-6	
5.00000	20.87500	89.00000	-18.202	88.600	-47.996	-110.98	-776.74E-6	
5.00000	22.06250	89.00000	-18.244	88.600	-47.996	-111.04	-775.28E-6	
5.00000	23.25000	89.00000	-18.283	88.600	-47.997	-111.12	-773.48E-6	
5.00000	24.43750	89.00000	-18.322	88.600	-47.999	-111.22	-771.23E-6	
5.00000	25.62500	89.00000	-18.357	88.600	-47.999	-111.34	-768.50E-6	
5.00000	26.81250	89.00000	-18.385	88.600	-48.002	-111.48	-765.32E-6	
5.00000	28.00000	89.00000	-18.402	88.600	-48.005	-111.64	-761.81E-6	
5.00000	29.18750	89.00000	-18.400	88.600	-48.009	-111.81	-758.09E-6	
5.00000	30.37500	89.00000	-18.374	88.600	-48.016	-112.00	-754.11E-6	
5.00000	31.56250	89.00000	-18.320	88.600	-48.028	-112.22	-749.70E-6	
5.00000	32.75000	89.00000	-18.234	88.600	-48.049	-112.50	-744.59E-6	
5.00000	33.93750	89.00000	-18.108					



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
5.00000	68.37500	89.00000	-6.7554	88.600	-7.6167	-27.185	102.00E-6	
5.00000	69.56250	89.00000	-6.2602	88.600	-7.2717	-25.034	75.745E-6	
5.00000	70.75000	89.00000	-5.5696	88.600	-6.1823	-21.226	63.038E-6	
5.00000	71.93750	89.00000	-4.6632	88.600	-3.5817	-15.358	108.54E-6	
5.00000	73.12500	89.00000	-3.7921	88.600	-1.3053	-9.8630	139.93E-6	
5.00000	74.31250	89.00000	-3.1428	88.600	-0.47042	-6.5026	119.80E-6	
5.00000	75.50000	89.00000	-2.6654	88.600	-0.20179	-4.5756	93.418E-6	
5.00000	76.68750	89.00000	-2.2981	88.600	-0.10094	-3.3955	72.768E-6	
5.00000	77.87500	89.00000	-2.0037	88.600	-0.056514	-2.6198	57.653E-6	
5.00000	79.06250	89.00000	-1.7606	88.600	-0.034339	-2.0806	46.531E-6	
5.00000	80.25000	89.00000	-1.5556	88.600	-0.022129	-1.6893	38.184E-6	
5.00000	81.43750	89.00000	-1.3802	88.600	-0.015011	-1.3959	31.785E-6	
5.00000	82.62500	89.00000	-1.2284	88.600	-0.010541	-1.1700	26.785E-6	
5.00000	83.81250	89.00000	-1.0959	88.600	-0.0076258	-0.99233	22.811E-6	
5.00000	85.00000	89.00000	-0.97958	88.600	-0.0056533	-0.85017	19.605E-6	
6.25000	-10.00000	89.00000	-1.8418	88.600	-631.10E-6	-0.63338	14.838E-6	
6.25000	-8.81250	89.00000	-2.1128	88.600	-993.62E-6	-0.79459	18.626E-6	
6.25000	-7.62500	89.00000	-2.4406	88.600	-0.0016746	-1.0252	24.005E-6	
6.25000	-6.43750	89.00000	-2.8454	88.600	-0.0030974	-1.3729	32.084E-6	
6.25000	-5.25000	89.00000	-3.3605	88.600	-0.0065742	-1.9371	45.115E-6	
6.25000	-4.06250	89.00000	-4.0483	88.600	-0.015566	-2.9662	68.52E-6	
6.25000	-2.87500	89.00000	-5.0447	88.600	-0.075611	-5.3004	119.38E-6	
6.25000	-1.68750	89.00000	-6.7128	88.600	-1.4317	-14.781	246.72E-6	
6.25000	-0.50000	89.00000	-9.9232	88.600	-21.146	-54.923	200.32E-6	
6.25000	0.68750	89.00000	-13.349	88.600	-47.159	-99.527	-989.86E-6	
6.25000	1.47500	89.00000	-18.048	88.600	-47.939	-100.87	-869.28E-6	
6.25000	3.06250	89.00000	-15.771	88.600	-47.982	-108.88	-825.08E-6	
6.25000	4.25000	89.00000	-16.389	88.600	-47.991	-109.79	-804.41E-6	
6.25000	5.43750	89.00000	-16.839	88.600	-47.994	-110.28	-793.03E-6	
6.25000	6.62500	89.00000	-17.180	88.600	-47.995	-110.57	-786.18E-6	
6.25000	7.81250	89.00000	-17.444	88.600	-47.996	-110.76	-781.82E-6	
6.25000	9.00000	89.00000	-17.650	88.600	-47.996	-110.88	-778.94E-6	
6.25000	10.18750	89.00000	-17.814	88.600	-47.996	-110.97	-776.98E-6	
6.25000	11.37500	89.00000	-17.946	88.600	-47.997	-111.03	-775.60E-6	
6.25000	12.56250	89.00000	-18.053	88.600	-47.997	-111.07	-774.57E-6	
6.25000	13.75000	89.00000	-18.141	88.600	-47.997	-111.11	-773.73E-6	
6.25000	14.93750	89.00000	-18.214	88.600	-47.997	-111.14	-773.00E-6	
6.25000	16.12500	89.00000	-18.276	88.600	-47.997	-111.17	-772.31E-6	
6.25000	17.31250	89.00000	-18.329	88.600	-47.997	-111.20	-771.60E-6	
6.25000	18.50000	89.00000	-18.375	88.600	-47.997	-111.23	-770.85E-6	
6.25000	19.68750	89.00000	-18.414	88.600	-47.997	-111.27	-770.00E-6	
6.25000	20.87500	89.00000	-18.448	88.600	-47.998	-111.31	-769.02E-6	
6.25000	22.06250	89.00000	-18.478	88.600	-47.998	-111.36	-767.87E-6	
6.25000	23.25000	89.00000	-18.503	88.600	-47.999	-111.42	-766.52E-6	
6.25000	24.43750	89.00000	-18.523	88.600	-48.000	-111.49	-764.92E-6	
6.25000	25.62500	89.00000	-18.535	88.600	-48.001	-111.57	-763.06E-6	
6.25000	26.81250	89.00000	-18.537	88.600	-48.002	-111.67	-760.97E-6	
6.25000	28.00000	89.00000	-18.525	88.600	-48.004	-111.77	-758.68E-6	
6.25000	29.18750	89.00000	-18.493	88.600	-48.008	-111.88	-756.24E-6	
6.25000	30.37500	89.00000	-18.437	88.600	-48.013	-112.01	-753.66E-6	
6.25000	31.56250	89.00000	-18.350	88.600	-48.021	-112.15	-750.91E-6	
6.25000	32.75000	89.00000	-18.225	88.600	-48.036	-112.32	-748.04E-6	
6.25000	33.93750	89.00000	-18.050	88.600	-48.063	-112.51	-745.34E-6	
6.25000	35.12500	89.00000	-17.805	88.600	-48.116	-112.72	-744.10E-6	
6.25000	36.31250	89.00000	-17.484	88.600	-48.225	-113.04	-749.14E-6	
6.25000	37.50000	89.00000	-16.841	88.600	-48.420	-112.16	-778.78E-6	
6.25000	38.68750	89.00000	-15.611	88.600	-47.654	-104.97	-893.88E-6	
6.25000	39.87500	89.00000	-12.384	88.600	-19.798	-56.866	-59.466E-6	
6.25000	41.06250	89.00000	-9.7409	88.600	-2.0540	-22.146	376.10E-6	
6.25000	42.25000	89.00000	-6.4144	88.600	-1.0364	-17.636	288.74E-6	
6.25000	43.43750	89.00000	-8.0445	88.600	-1.8317	-16.709	263.86E-6	
6.25000	44.62500	89.00000	-7.6513	88.600	-1.8546	-16.437	255.85E-6	
6.25000	45.81250	89.00000	-7.3743	88.600	-1.8683	-16.376	253.44E-6	
6.25000	47.00000	89.00000	-7.1676	88.600	-1.8766	-16.388	253.13E-6	
6.25000	48.18750	89.00000	-7.0071	88.600	-1.8818	-16.425	253.65E-6	
6.25000	49.37500	89.00000	-6.8786	88.600	-1.8852	-16.470	254.47E-6	
6.25000	50.56250	89.00000	-6.7727	88.600	-1.8875	-16.516	255.37E-6	
6.25000	51.75000	89.00000	-6.6830	88.600	-1.8892	-16.558	256.24E-6	
6.25000	52.93750	89.00000	-6.6046	88.600	-1.8905	-16.595	257.02E-6	
6.25000	54.12500	89.00000	-6.5336	88.600	-1.8915	-16.626	257.68E-6	
6.25000	55.31250	89.00000	-6.4667	88.600	-1.8923	-16.649	258.17E-6	
6.25000	56.50000	89.00000	-6.4006	88.600	-1.8929	-16.661	258.41E-6	
6.25000	57.68750	89.00000	-6.3322	88.600	-1.8933	-16.660	258.35E-6	
6.25000	58.87500	89.00000	-6.2584	88.600	-1.8933	-16.639	257.86E-6	
6.25000	60.06250	89.00000	-6.1757	88.600	-1.8927	-16.592	256.80E-6	
6.25000	61.25000	89.00000	-6.0805	88.600	-1.8913	-16.511	254.99E-6	
6.25000	62.43750	89.00000	-5.9687	88.600	-1.8885	-16.383	252.17E-6	
6.25000	63.62500	89.00000	-5.8357	88.600	-1.8834	-16.191	248.02E-6	
6.25000	64.81250	89.00000	-5.6758	88.600	-1.8742	-15.912	242.10E-6	
6.25000	66.00000	89.00000	-5.4923	88.600	-1.8574	-15.509	233.80E-6	
6.25000	67.18750	89.00000	-5.2463	88.600	-1.8255	-14.925	222.31E-6	
6.25000	68.37500	89.00000	-4.9559	88.600	-1.7610	-14.069	206.73E-6	
6.25000	69.56250	89.00000	-4.5968	88.600	-1.6241	-12.807	186.70E-6	
6.25000	70.75000	89.00000	-4.1595	88.600	-1.3425	-10.999	164.03E-6	
6.25000	71.93750	89.00000	-3.6634	88.600	-0.89311	-8.7356	142.15E-6	
6.25000	73.12500	89.00000	-3.1734	88.600	-0.48193	-6.5383	119.82E-6	
6.25000	74.31250	89.00000	-2.7459	88.600	-0.24044	-4.8466	97.066E-6	
6.25000	75.50000	89.00000	-2.3909	88.600	-0.12533	-3.6658	77.408E-6	
6.25000	76.68750	89.00000	-2.0967	88.600	-0.070403	-2.8470	62.018E-6	
6.25000	77.87500	89.00000	-1.7491	88.600	-0.04222	-2.2650	50.299E-6	
6.25000	79.06250	89.00000	-1.6394	88.600	-0.027092	-1.8387	41.352E-6	
6.25000	80.25000	89.00000	-1.4582	88.600	-0.018134	-1.5179	34.435E-6	
6.25000	81.43750	89.00000	-1.3007	88.600	-0.012606	-1.2706	29.007E-6	
6.25000	82.62500	89.00000	-1.1628	88.600	-0.009389	-1.0762	24.684E-6	
6.25000	83.81250	89.00000	-1.0423	88.600	-0.006492	-0.92071	21.347E-6	
6.25000	85.00000	89.00000	-0.93370	88.600	-0.0049976	-0.79460	18.344E-6	
7.50000	-10.00000	89.00000	-1.8750	88.600	-672.17E-6	-0.65352	15.330E-6	
7.50000	-8.81250	89.00000	-2.1555	88.600	-0.0010706	-0.82446	19.324E-6	
7.50000	-7.62500	89.00000	-2.4965	88.600	-0.0018331	-1.0714	25.081E-6	
7.50000	-6.43750	89.00000	-2.9203	88.600	-0.0034721	-1.4489	33.847E-6	
7.50000	-5.25000	89.00000	-3.4652	88.600	-0.0076746	-2.0757	48.298E-6	
7.50000	-4.06250	89.00000	-4.2065	88.600	-0.022182	-3.2691	75.354E-6	
7.50000	-2.87500	89.00000	-5.3217	88.600	-0.11288	-6.2521	139.14E-6	
7.50000	-1.68750	89.00000	-7.3656	88.600	-2.9298	-21.786	305.81E-6	
7.50000	-0.50000	89.00000	-11.895	88.600	-46.491	-91.826	-0.001211	
7.50000	0.68750	89.00000	-13.928	88.600	-47.848	-104.09	-928.30E-6	
7.50000	1.87500	89.00000	-15.177	88.600	-47.964	-107.72	-851.12E-6	
7.50000	3.06250	89.00000	-16.007	88.600	-47.986	-109.27	-816.32E-6	
7.50000	4.25000	89.00000	-16.594	88.600	-47.993	-110.06	-798.19E-6	
7.50000	5.43750	89.00000	-17.028	88.600	-47.995	-110.51	-787.79E-6	
7.50000	6.62500	89.00000	-17.356	88.600	-47.996	-110.78	-781.47E-6	
7.50000	7.81250	89.00000	-17.607	88.600	-47.997	-110.95	-777.53E-6	
7.50000	9.00000	89.00000	-17.800	88.600	-47.997	-111.05	-775.06E-6	
7.50000	10.18750	89.00000	-17.951	88.600	-47.997	-111.12	-772.48E-6	
7.50000	11.37500	89.00000	-18.070	88.600	-47.997	-111.19	-770.00E-6	
7.50000	12.56250	89.00000	-18.165	88.600	-47.997	-111.19	-771.72E-6	
7.50000	13.75000	89.00000	-18.242	88.600	-47.997	-111.		



SOUTHERN TESTING LABORATORIES

Job No.

Sheet No.

Rev.

J12093

Kidderpore
Demolition Unload (Undrained)
Output

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
7.50000	43.43750	89.00000	-7.0554	88.600	-0.60030	-11.010	216.69E-6	
7.50000	44.62500	89.00000	-6.6072	88.600	-0.60880	-10.508	204.26E-6	
7.50000	45.81250	89.00000	-6.2975	88.600	-0.61648	-10.329	199.52E-6	
7.50000	47.00000	89.00000	-6.0691	88.600	-0.62187	-10.273	197.82E-6	
7.50000	48.18750	89.00000	-5.8929	88.600	-0.62554	-10.267	197.43E-6	
7.50000	49.37500	89.00000	-5.7520	88.600	-0.62807	-10.293	197.61E-6	
7.50000	50.56250	89.00000	-5.6361	88.600	-0.62986	-10.305	198.02E-6	
7.50000	51.75000	89.00000	-5.5378	88.600	-0.63117	-10.330	198.50E-6	
7.50000	52.93750	89.00000	-5.4518	88.600	-0.63215	-10.352	198.95E-6	
7.50000	54.12500	89.00000	-5.3739	88.600	-0.63289	-10.369	199.31E-6	
7.50000	55.31250	89.00000	-5.3008	88.600	-0.63344	-10.380	199.52E-6	
7.50000	56.50000	89.00000	-5.2294	88.600	-0.63380	-10.381	199.52E-6	
7.50000	57.68750	89.00000	-5.1567	88.600	-0.63394	-10.370	199.24E-6	
7.50000	58.87500	89.00000	-5.0799	88.600	-0.63377	-10.342	198.60E-6	
7.50000	60.06250	89.00000	-4.9961	88.600	-0.63316	-10.293	197.48E-6	
7.50000	61.25000	89.00000	-4.9124	88.600	-0.63189	-10.215	195.76E-6	
7.50000	62.43750	89.00000	-4.7956	88.600	-0.62961	-10.101	193.24E-6	
7.50000	63.62500	89.00000	-4.6723	88.600	-0.62575	-9.9398	189.71E-6	
7.50000	64.81250	89.00000	-4.5286	88.600	-0.61929	-9.7150	184.87E-6	
7.50000	66.00000	89.00000	-4.3605	88.600	-0.60847	-9.4064	178.38E-6	
7.50000	67.18750	89.00000	-4.1633	88.600	-0.59071	-8.9958	169.78E-6	
7.50000	68.37500	89.00000	-3.9324	88.600	-0.55812	-8.4175	158.66E-6	
7.50000	69.56250	89.00000	-3.6646	88.600	-0.50378	-7.6648	144.79E-6	
7.50000	70.75000	89.00000	-3.3619	88.600	-0.41856	-6.7176	128.52E-6	
7.50000	71.93750	89.00000	-3.0371	88.600	-0.30868	-5.6401	110.92E-6	
7.50000	73.12500	89.00000	-2.6932	88.600	-0.20255	-4.3770	93.36E-6	
7.50000	74.31250	89.00000	-2.4116	88.600	-0.12461	-3.6596	77.311E-6	
7.50000	75.50000	89.00000	-2.1425	88.600	-0.076148	-2.9311	63.592E-6	
7.50000	76.68750	89.00000	-1.9066	88.600	-0.047726	-2.3716	52.434E-6	
7.50000	77.87500	89.00000	-1.7004	88.600	-0.031007	-1.9436	43.542E-6	
7.50000	79.06250	89.00000	-1.5197	88.600	-0.020886	-1.6131	36.484E-6	
7.50000	80.25000	89.00000	-1.3608	88.600	-0.014536	-1.3545	30.845E-6	
7.50000	81.43750	89.00000	-1.2205	88.600	-0.010409	-1.1493	26.307E-6	
7.50000	82.62500	89.00000	-1.0960	88.600	-0.0076381	-0.98418	22.618E-6	
7.50000	83.81250	89.00000	-0.9922	88.600	-0.0057241	-0.84977	19.589E-6	
7.50000	85.00000	89.00000	-0.88631	88.600	-0.0043684	-0.73900	17.000E-6	
8.75000	-10.00000	89.00000	-1.8944	88.600	-703.40E-6	-0.66717	15.649E-6	
8.75000	-8.81250	89.00000	-2.1811	88.600	-0.0011301	-0.84525	19.808E-6	
8.75000	-7.62500	89.00000	-2.5308	88.600	-0.0019558	-1.1043	25.847E-6	
8.75000	-6.43750	89.00000	-2.9676	88.600	-0.0037557	-1.5039	35.121E-6	
8.75000	-5.25000	89.00000	-3.5328	88.600	-0.0084449	-2.1752	50.584E-6	
8.75000	-4.06250	89.00000	-4.3086	88.600	-0.024809	-3.4713	79.927E-6	
8.75000	-2.87500	89.00000	-5.4874	88.600	-0.12495	-6.7342	149.63E-6	
8.75000	-1.68750	89.00000	-7.6400	88.600	-2.9968	-23.053	330.88E-6	
8.75000	-0.50000	89.00000	-12.241	88.600	-46.638	-93.823	-0.0010845	
8.75000	0.68750	89.00000	-14.132	88.600	-47.899	-105.19	-905.98E-6	
8.75000	1.87500	89.00000	-15.346	88.600	-47.973	-108.16	-841.43E-6	
8.75000	3.06250	89.00000	-16.122	88.600	-47.989	-109.48	-811.48E-6	
8.75000	4.25000	89.00000	-16.678	88.600	-47.994	-110.18	-795.31E-6	
8.75000	5.43750	89.00000	-17.086	88.600	-47.996	-110.88	-785.94E-6	
8.75000	6.62500	89.00000	-17.395	88.600	-47.997	-110.82	-780.39E-6	
8.75000	7.81250	89.00000	-17.624	88.600	-47.997	-110.96	-777.18E-6	
8.75000	9.00000	89.00000	-17.796	88.600	-47.997	-111.03	-775.43E-6	
8.75000	10.18750	89.00000	-17.925	88.600	-47.997	-111.07	-774.56E-6	
8.75000	11.37500	89.00000	-18.004	88.600	-47.997	-111.10	-774.16E-6	
8.75000	12.56250	89.00000	-18.101	88.600	-47.997	-111.10	-773.96E-6	
8.75000	13.75000	89.00000	-18.162	88.600	-47.997	-111.10	-773.79E-6	
8.75000	14.93750	89.00000	-18.213	88.600	-47.997	-111.11	-773.58E-6	
8.75000	16.12500	89.00000	-18.256	88.600	-47.997	-111.12	-773.30E-6	
8.75000	17.31250	89.00000	-18.281	88.600	-47.997	-111.14	-772.93E-6	
8.75000	18.50000	89.00000	-18.320	88.600	-47.997	-111.16	-772.49E-6	
8.75000	19.68750	89.00000	-18.342	88.600	-47.997	-111.18	-771.97E-6	
8.75000	20.87500	89.00000	-18.359	88.600	-47.997	-111.21	-771.37E-6	
8.75000	22.06250	89.00000	-18.369	88.600	-47.997	-111.24	-770.69E-6	
8.75000	23.25000	89.00000	-18.372	88.600	-47.997	-111.27	-769.92E-6	
8.75000	24.43750	89.00000	-18.366	88.600	-47.998	-111.31	-769.07E-6	
8.75000	25.62500	89.00000	-18.348	88.600	-47.999	-111.35	-768.17E-6	
8.75000	26.81250	89.00000	-18.316	88.600	-48.000	-111.39	-767.25E-6	
8.75000	28.00000	89.00000	-18.267	88.600	-48.001	-111.43	-766.37E-6	
8.75000	29.18750	89.00000	-18.194	88.600	-48.003	-111.47	-765.53E-6	
8.75000	30.37500	89.00000	-18.091	88.600	-48.006	-111.50	-765.19E-6	
8.75000	31.56250	89.00000	-17.949	88.600	-48.009	-111.50	-765.34E-6	
8.75000	32.75000	89.00000	-17.758	88.600	-48.015	-111.47	-766.54E-6	
8.75000	33.93750	89.00000	-17.501	88.600	-48.022	-111.36	-769.58E-6	
8.75000	35.12500	89.00000	-17.158	88.600	-48.033	-111.15	-775.70E-6	
8.75000	36.31250	89.00000	-16.693	88.600	-48.047	-110.65	-788.05E-6	
8.75000	37.50000	89.00000	-16.023	88.600	-48.054	-109.52	-815.15E-6	
8.75000	38.68750	89.00000	-14.937	88.600	-47.945	-106.04	-889.40E-6	
8.75000	39.87500	89.00000	-12.729	88.600	-41.970	-83.553	-996.61E-6	
8.75000	41.06250	89.00000	-8.5804	88.600	-0.98721	-17.802	-351.48E-6	
8.75000	42.25000	89.00000	-7.1304	88.600	-0.29129	-9.9529	-213.62E-6	
8.75000	43.43750	89.00000	-6.3628	88.600	-0.25629	-8.1161	-172.88E-6	
8.75000	44.62500	89.00000	-5.8876	88.600	-0.25651	-7.4785	-157.86E-6	
8.75000	45.81250	89.00000	-5.5611	88.600	-0.26018	-7.2242	-151.62E-6	
8.75000	47.00000	89.00000	-5.3208	88.600	-0.26347	-7.1205	-148.94E-6	
8.75000	48.18750	89.00000	-5.1353	88.600	-0.26596	-7.0825	-147.87E-6	
8.75000	49.37500	89.00000	-4.9869	88.600	-0.26779	-7.0746	-147.56E-6	
8.75000	50.56250	89.00000	-4.8645	88.600	-0.26914	-7.0799	-147.59E-6	
8.75000	51.75000	89.00000	-4.7605	88.600	-0.27014	-7.0900	-147.76E-6	
8.75000	52.93750	89.00000	-4.6693	88.600	-0.27089	-7.1002	-147.93E-6	
8.75000	54.12500	89.00000	-4.5870	88.600	-0.27144	-7.1074	-148.07E-6	
8.75000	55.31250	89.00000	-4.5099	88.600	-0.27182	-7.1090	-148.08E-6	
8.75000	56.50000	89.00000	-4.4352	88.600	-0.27203	-7.1027	-147.92E-6	
8.75000	57.68750	89.00000	-4.3602	88.600	-0.27205	-7.0859	-147.52E-6	
8.75000	58.87500	89.00000	-4.2925	88.600	-0.27192	-7.0554	-146.25E-6	
8.75000	60.06250	89.00000	-4.1995	88.600	-0.27125	-7.0073	-145.73E-6	
8.75000	61.25000	89.00000	-4.1088	88.600	-0.27019	-6.9371	-144.15E-6	
8.75000	62.43750	89.00000	-4.0080	88.600	-0.26843	-6.8387	-141.96E-6	
8.75000	63.62500	89.00000	-3.8946	88.600	-0.26563	-6.7049	-139.01E-6	
8.75000	64.81250	89.00000	-3.7652	88.600	-0.26193	-6.5266	-135.63E-6	
8.75000	66.00000	89.00000	-3.6202	88.600	-0.25441	-6.2926	-130.10E-6	
8.75000	67.18750	89.00000	-3.4545	88.600	-0.24385	-5.9900	-123.73E-6	
8.75000	68.37500	89.00000	-3.2676	88.600	-0.22776	-5.6062	-115.83E-6	
8.75000	69.56250	89.00000	-3.0596	88.600	-0.20420	-5.1339	-106.38E-6	
8.75000	70.75000	89.00000	-2.8328	88.600	-0.17250	-4.5808	-95.60E-6	
8.75000	71.93750	89.00000	-2.5975	88.600	-0.13539	-3.9791	-84.068E-6	
8.75000	73.12500	89.00000	-2.3610	88.600	-0.099036	-3.3805	-72.550E-6	
8.75000	74.31250	89.00000	-2.1343	88.600	-0.069020	-2.8339	-61.807E-6	
8.75000	75.50000	89.00000	-1.9237	88.600	-0.047156	-2.3654	-52.328E-6	
8.75000	76.68750	89.00000	-1.7321	88.600	-0.032291	-1.9786	-44.275E-6	
8.75000	77.87500	89.00000	-1.5594	88.600	-0.022437	-1.6644	-37.578E-6	
8.75000	79.06250	89.00000	-1.4045	88.600	-0.015900	-1.4101	-32.056E-6	
8.75000	80.25000	89.00000	-1.2656	88.600	-0.011504	-1.2037	-27.509E-6	
8.75000	81.43750	89.00000	-1.1440	88.600	-0.0084904	-1.0350	-23.754E-6	
8.75000	82.62500	89.00000	-1.0392	88.600	-0.0064920	-0.9015	-20.635E-6	
8.7500								



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Drq. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
10.00000	18.50000	89.00000	-17.994	88.600	-47.994	-110.71	-782.78E-6	
10.00000	19.68750	89.00000	-18.009	88.600	-47.994	-110.73	-782.42E-6	
10.00000	20.87500	89.00000	-18.018	88.600	-47.994	-110.75	-781.98E-6	
10.00000	22.06250	89.00000	-18.020	88.600	-47.994	-110.77	-781.47E-6	
10.00000	23.25000	89.00000	-18.014	88.600	-47.995	-110.80	-780.91E-6	
10.00000	24.43750	89.00000	-17.998	88.600	-47.995	-110.82	-780.32E-6	
10.00000	25.62500	89.00000	-17.971	88.600	-47.996	-110.85	-779.72E-6	
10.00000	26.81250	89.00000	-17.928	88.600	-47.996	-110.87	-779.18E-6	
10.00000	28.00000	89.00000	-17.866	88.600	-47.997	-110.89	-778.78E-6	
10.00000	29.18750	89.00000	-17.778	88.600	-47.999	-110.90	-778.67E-6	
10.00000	30.37500	89.00000	-17.658	88.600	-48.000	-110.89	-779.18E-6	
10.00000	31.56250	89.00000	-17.493	88.600	-48.002	-110.83	-780.71E-6	
10.00000	32.75000	89.00000	-17.267	88.600	-48.004	-110.68	-784.33E-6	
10.00000	33.93750	89.00000	-16.960	88.600	-48.006	-110.38	-791.54E-6	
10.00000	35.12500	89.00000	-16.549	88.600	-48.004	-109.84	-804.05E-6	
10.00000	36.31250	89.00000	-16.092	88.600	-48.001	-109.03	-822.88E-6	
10.00000	37.50000	89.00000	-15.320	88.600	-47.989	-107.69	-853.59E-6	
10.00000	38.68750	89.00000	-14.249	88.600	-47.863	-104.18	-927.31E-6	
10.00000	39.87500	89.00000	-12.083	88.600	-41.874	-81.779	-0.001031E	
10.00000	41.06250	89.00000	-7.9734	88.600	-0.87903	-16.177	318.57E-6	
10.00000	42.25000	89.00000	-5.9469	88.600	-0.73181	-11.225	181.32E-6	
10.00000	43.43750	89.00000	-5.7908	88.600	-0.13166	-6.3581	140.31E-6	
10.00000	44.62500	89.00000	-5.3201	88.600	-0.12793	-5.6859	124.76E-6	
10.00000	45.81250	89.00000	-4.9943	88.600	-0.12926	-5.4009	117.96E-6	
10.00000	47.00000	89.00000	-4.7528	88.600	-0.13115	-5.2722	114.80E-6	
10.00000	48.18750	89.00000	-4.4185	88.600	-0.13279	-5.2144	113.32E-6	
10.00000	49.37500	89.00000	-4.4141	88.600	-0.13409	-5.1906	112.67E-6	
10.00000	50.56250	89.00000	-4.2888	88.600	-0.13509	-5.1830	112.42E-6	
10.00000	51.75000	89.00000	-4.1819	88.600	-0.13584	-5.1825	112.35E-6	
10.00000	52.93750	89.00000	-4.0881	88.600	-0.13640	-5.1838	112.34E-6	
10.00000	54.12500	89.00000	-3.9832	88.600	-0.13681	-5.1834	112.31E-6	
10.00000	55.31250	89.00000	-3.9241	88.600	-0.13708	-5.1789	112.18E-6	
10.00000	56.50000	89.00000	-3.8480	88.600	-0.13720	-5.1679	111.91E-6	
10.00000	57.68750	89.00000	-3.7723	88.600	-0.13717	-5.1483	111.45E-6	
10.00000	58.87500	89.00000	-3.6951	88.600	-0.13694	-5.1175	110.74E-6	
10.00000	60.06250	89.00000	-3.6140	88.600	-0.13645	-5.0765	109.72E-6	
10.00000	61.25000	89.00000	-3.5273	88.600	-0.13561	-5.0104	108.32E-6	
10.00000	62.43750	89.00000	-3.4329	88.600	-0.13428	-4.9268	106.45E-6	
10.00000	63.62500	89.00000	-3.3292	88.600	-0.13228	-4.8172	104.01E-6	
10.00000	64.81250	89.00000	-3.2184	88.600	-0.12933	-4.6765	100.91E-6	
10.00000	66.00000	89.00000	-3.1007	88.600	-0.12504	-4.4988	97.027E-6	
10.00000	67.18750	89.00000	-2.9463	88.600	-0.11890	-4.2786	92.280E-6	
10.00000	68.37500	89.00000	-2.7919	88.600	-0.11039	-4.0121	86.611E-6	
10.00000	69.56250	89.00000	-2.6247	88.600	-0.099094	-3.6995	80.053E-6	
10.00000	70.75000	89.00000	-2.4474	88.600	-0.085188	-3.3484	72.772E-6	
10.00000	71.93750	89.00000	-2.2641	88.600	-0.06920	-2.8750	65.072E-6	
10.00000	73.12500	89.00000	-2.0805	88.600	-0.054444	-2.6017	57.374E-6	
10.00000	74.31250	89.00000	-1.9019	88.600	-0.041007	-2.2501	50.048E-6	
10.00000	75.50000	89.00000	-1.7323	88.600	-0.030244	-1.9345	43.382E-6	
10.00000	76.68750	89.00000	-1.5742	88.600	-0.022150	-1.6516	37.510E-6	
10.00000	77.87500	89.00000	-1.4285	88.600	-0.016271	-1.4278	32.448E-6	
10.00000	79.06250	89.00000	-1.2953	88.600	-0.012060	-1.2319	28.135E-6	
10.00000	80.25000	89.00000	-1.1739	88.600	-0.0090463	-1.0676	24.482E-6	
10.00000	81.43750	89.00000	-1.0636	88.600	-0.0068739	-0.92973	21.391E-6	
10.00000	82.62500	89.00000	-0.96561	88.600	-0.0052912	-0.81364	18.771E-6	
10.00000	83.81250	89.00000	-0.87263	88.600	-0.0041236	-0.71550	16.544E-6	
10.00000	85.00000	89.00000	-0.79013	88.600	-0.0032510	-0.63212	14.644E-6	
11.25000	-10.00000	89.00000	-1.8887	88.600	-729.80E-6	-0.67253	15.773E-6	
11.25000	-8.81250	89.00000	-2.1768	88.600	-0.0011836	-0.85570	20.051E-6	
11.25000	-7.62500	89.00000	-2.5294	88.600	-0.002864	-1.1540	26.303E-6	
11.25000	-6.43750	89.00000	-2.9716	88.600	-0.0040050	-1.5410	35.975E-6	
11.25000	-5.25000	89.00000	-3.5464	88.600	-0.0090292	-2.2448	52.180E-6	
11.25000	-4.06250	89.00000	-4.3382	88.600	-0.026257	-3.6020	82.900E-6	
11.25000	-2.87500	89.00000	-5.5406	88.600	-0.12859	-6.9723	154.98E-6	
11.25000	-1.68750	89.00000	-7.1653	88.600	-0.30047	-23.433	339.28E-6	
11.25000	-0.50000	89.00000	-12.314	88.600	-46.648	-94.262	-0.0010749	
11.25000	0.68750	89.00000	-14.219	88.600	-47.906	-105.51	-899.07E-6	
11.25000	1.87500	89.00000	-15.305	88.600	-47.976	-108.29	-838.55E-6	
11.25000	3.06250	89.00000	-16.012	88.600	-47.990	-109.46	-811.93E-6	
11.25000	4.25000	89.00000	-16.501	88.600	-47.994	-110.50	-798.41E-6	
11.25000	5.43750	89.00000	-16.842	88.600	-47.995	-110.34	-791.54E-6	
11.25000	6.62500	89.00000	-17.073	88.600	-47.995	-110.46	-788.87E-6	
11.25000	7.81250	89.00000	-17.215	88.600	-47.993	-110.44	-789.30E-6	
11.25000	9.00000	89.00000	-17.291	88.600	-47.991	-110.31	-792.01E-6	
11.25000	10.18750	89.00000	-17.324	88.600	-47.989	-110.15	-795.78E-6	
11.25000	11.37500	89.00000	-17.338	88.600	-47.987	-109.99	-799.26E-6	
11.25000	12.56250	89.00000	-17.348	88.600	-47.986	-109.88	-801.77E-6	
11.25000	13.75000	89.00000	-17.361	88.600	-47.985	-109.81	-803.33E-6	
11.25000	14.93750	89.00000	-17.375	88.600	-47.985	-109.78	-804.21E-6	
11.25000	16.12500	89.00000	-17.389	88.600	-47.985	-109.76	-804.63E-6	
11.25000	17.31250	89.00000	-17.403	88.600	-47.985	-109.75	-804.75E-6	
11.25000	18.50000	89.00000	-17.413	88.600	-47.985	-109.76	-804.67E-6	
11.25000	19.68750	89.00000	-17.420	88.600	-47.985	-109.76	-804.47E-6	
11.25000	20.87500	89.00000	-17.422	88.600	-47.985	-109.78	-804.17E-6	
11.25000	22.06250	89.00000	-17.437	88.600	-47.985	-109.79	-803.82E-6	
11.25000	23.25000	89.00000	-17.404	88.600	-47.985	-109.81	-803.42E-6	
11.25000	24.43750	89.00000	-17.381	88.600	-47.986	-109.83	-803.03E-6	
11.25000	25.62500	89.00000	-17.346	88.600	-47.986	-109.84	-802.67E-6	
11.25000	26.81250	89.00000	-17.295	88.600	-47.987	-109.86	-802.42E-6	
11.25000	28.00000	89.00000	-17.224	88.600	-47.987	-109.76	-802.39E-6	
11.25000	29.18750	89.00000	-17.126	88.600	-47.988	-109.85	-802.81E-6	
11.25000	30.37500	89.00000	-16.991	88.600	-47.989	-109.79	-804.09E-6	
11.25000	31.56250	89.00000	-16.805	88.600	-47.990	-109.67	-807.15E-6	
11.25000	32.75000	89.00000	-16.540	88.600	-47.988	-109.36	-814.09E-6	
11.25000	33.93750	89.00000	-16.149	88.600	-47.973	-108.64	-830.88E-6	
11.25000	35.12500	89.00000	-15.578	88.600	-47.900	-106.97	-864.20E-6	
11.25000	36.31250	89.00000	-14.872	88.600	-47.788	-104.71	-909.42E-6	
11.25000	37.50000	89.00000	-14.105	88.600	-47.743	-102.82	-950.84E-6	
11.25000	38.68750	89.00000	-13.092	88.600	-47.618	-99.482	-0.0010205	
11.25000	39.87500	89.00000	-11.927	88.600	-41.697	-79.160	-0.0010143	
11.25000	41.06250	89.00000	-7.2268	88.600	-0.79315	-14.009	273.63E-6	
11.25000	42.25000	89.00000	-5.9484	88.600	-0.11525	-6.7530	150.76E-6	
11.25000	43.43750	89.00000	-5.2648	88.600	-0.076321	-5.0991	114.59E-6	
11.25000	44.62500	89.00000	-4.8289	88.600	-0.071620	-4.4864	100.51E-6	
11.25000	45.81250	89.00000	-4.5205	88.600	-0.071829	-4.2126	94.050E-6	
11.25000	47.00000	89.00000	-4.2878	88.600	-0.072886	-4.0799	90.852E-6	
11.25000	48.18750	89.00000	-4.1046	88.600	-0.073959	-4.0137	89.220E-6	
11.25000	49.37500	89.00000	-3.9554	88.600	-0.074867	-3.9809	88.384E-6	
11.25000	50.56250	89.00000	-3.8307	88.600	-0.075593	-3.9651	87.960E-6	
11.25000	51.75000	89.00000	-3.7235	88.600	-0.076155	-3.9572	87.735E-6	
11.25000	52.93750	89.00000	-3.6291	88.600	-0.076578	-3.9522	87.587E-6	
11.25000	54.12500	89.00000	-3.5436	88.600	-0.076880	-3.9465	87.433E-6	
11.25000	55.31250	89.00000	-3.4641	88.600	-0.077069	-3.9379	87.216E-6	
11.25000	56.50000	89.00000	-3.3879	88.600	-0.077142	-3.9241	86.887E-6	
11.25000	57.68750	89.00000	-3.3229	88.600	-0.077087	-3.9034	86.404E-6	

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [moD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
12.50000	-6.43750	89.00000	-2.9280	88.600	-0.0040028	-1.5239	35.574E-6	
12.50000	-5.25000	89.00000	-3.4940	88.600	-0.0090393	-2.2237	51.683E-6	
12.50000	-4.06250	89.00000	-4.2749	88.600	-0.026292	-3.5758	82.280E-6	
12.50000	-2.87500	89.00000	-5.4635	88.600	-0.12866	-6.9381	154.17E-6	
12.50000	-1.68750	89.00000	-7.6210	88.600	-3.0047	-23.385	338.13E-6	
12.50000	5.33750	89.00000	-12.195	88.600	-46.648	-94.189	-0.0010766	
12.50000	0.68750	89.00000	-14.070	88.600	-47.906	-105.40	-901.67E-6	
12.50000	1.87500	89.00000	-15.120	88.600	-47.976	-108.13	-842.27E-6	
12.50000	3.06250	89.00000	-15.787	88.600	-47.989	-109.24	-816.97E-6	
12.50000	4.25000	89.00000	-16.232	88.600	-47.992	-109.76	-805.00E-6	
12.50000	5.43750	89.00000	-16.521	88.600	-47.993	-109.97	-800.15E-6	
12.50000	6.62500	89.00000	-16.687	88.600	-47.991	-109.95	-800.54E-6	
12.50000	7.81250	89.00000	-16.743	88.600	-47.986	-109.69	-806.19E-6	
12.50000	9.00000	89.00000	-16.702	88.600	-47.973	-109.18	-817.44E-6	
12.50000	10.18750	89.00000	-16.611	88.600	-47.957	-108.55	-831.08E-6	
12.50000	11.37500	89.00000	-16.527	88.600	-47.948	-108.08	-841.55E-6	
12.50000	12.56250	89.00000	-16.476	88.600	-47.944	-107.80	-847.69E-6	
12.50000	13.75000	89.00000	-16.451	88.600	-47.942	-107.66	-851.00E-6	
12.50000	14.93750	89.00000	-16.441	88.600	-47.942	-107.58	-852.75E-6	
12.50000	16.12500	89.00000	-16.439	88.600	-47.941	-107.54	-853.64E-6	
12.50000	17.31250	89.00000	-16.441	88.600	-47.941	-107.53	-854.05E-6	
12.50000	18.50000	89.00000	-16.443	88.600	-47.941	-107.52	-854.16E-6	
12.50000	19.68750	89.00000	-16.442	88.600	-47.942	-107.53	-854.10E-6	
12.50000	20.87500	89.00000	-16.437	88.600	-47.942	-107.53	-853.94E-6	
12.50000	22.06250	89.00000	-16.426	88.600	-47.942	-107.54	-853.71E-6	
12.50000	23.25000	89.00000	-16.408	88.600	-47.942	-107.55	-853.45E-6	
12.50000	24.43750	89.00000	-16.380	88.600	-47.942	-107.57	-853.21E-6	
12.50000	25.62500	89.00000	-16.339	88.600	-47.943	-107.57	-853.03E-6	
12.50000	26.81250	89.00000	-16.283	88.600	-47.943	-107.58	-853.00E-6	
12.50000	28.00000	89.00000	-16.206	88.600	-47.944	-107.57	-853.25E-6	
12.50000	29.18750	89.00000	-16.102	88.600	-47.944	-107.54	-854.05E-6	
12.50000	30.37500	89.00000	-15.959	88.600	-47.944	-107.46	-855.95E-6	
12.50000	31.56250	89.00000	-15.758	88.600	-47.944	-107.27	-860.30E-6	
12.50000	32.75000	89.00000	-15.456	88.600	-47.937	-106.79	-871.08E-6	
12.50000	33.93750	89.00000	-14.944	88.600	-47.868	-105.18	-904.05E-6	
12.50000	35.12500	89.00000	-13.455	88.600	-44.454	-83.653	-935.95E-6	
12.50000	36.31250	89.00000	-11.858	88.600	-26.912	-64.217	-388.71E-6	
12.50000	37.50000	89.00000	-10.935	88.600	-26.614	-60.207	-461.99E-6	
12.50000	38.68750	89.00000	-10.055	88.600	-26.524	-57.533	-518.58E-6	
12.50000	39.87500	89.00000	-8.6729	88.600	-23.284	-45.800	-578.16E-6	
12.50000	41.06250	89.00000	-6.2486	88.600	-0.44559	-9.6649	135.45E-6	
12.50000	42.25000	89.00000	-5.3146	88.600	-0.071357	-5.2513	118.52E-6	
12.50000	43.43750	89.00000	-4.7599	88.600	-0.046867	-4.0847	92.802E-6	
12.50000	44.62500	89.00000	-4.3825	88.600	-0.043335	-3.6058	81.784E-6	
12.50000	45.81250	89.00000	-4.1040	88.600	-0.043227	-3.3741	76.340E-6	
12.50000	47.00000	89.00000	-3.8880	88.600	-0.043840	-3.2533	73.454E-6	
12.50000	48.18750	89.00000	-3.7144	88.600	-0.044548	-3.1880	71.867E-6	
12.50000	49.37500	89.00000	-3.5710	88.600	-0.045184	-3.1520	70.975E-6	
12.50000	50.56250	89.00000	-3.4496	88.600	-0.045710	-3.1317	70.460E-6	
12.50000	51.75000	89.00000	-3.3446	88.600	-0.046127	-3.1193	70.139E-6	
12.50000	52.93750	89.00000	-3.2515	88.600	-0.046443	-3.1101	69.900E-6	
12.50000	54.12500	89.00000	-3.1669	88.600	-0.046667	-3.1010	69.671E-6	
12.50000	55.31250	89.00000	-3.0882	88.600	-0.046801	-3.0898	69.397E-6	
12.50000	56.50000	89.00000	-3.0132	88.600	-0.046843	-3.0746	69.038E-6	
12.50000	57.68750	89.00000	-2.9419	88.600	-0.046784	-3.0593	68.555E-6	
12.50000	58.87500	89.00000	-2.8664	88.600	-0.046609	-3.0261	67.912E-6	
12.50000	60.06250	89.00000	-2.7916	88.600	-0.046291	-2.9895	67.075E-6	
12.50000	61.25000	89.00000	-2.7139	88.600	-0.045796	-2.9426	66.005E-6	
12.50000	62.43750	89.00000	-2.6322	88.600	-0.045078	-2.8835	64.665E-6	
12.50000	63.62500	89.00000	-2.5466	88.600	-0.044061	-2.8106	63.021E-6	
12.50000	64.81250	89.00000	-2.4532	88.600	-0.042735	-2.7222	61.035E-6	
12.50000	66.00000	89.00000	-2.3546	88.600	-0.040964	-2.6169	58.682E-6	
12.50000	67.18750	89.00000	-2.2495	88.600	-0.038699	-2.4940	55.950E-6	
12.50000	68.37500	89.00000	-2.1384	88.600	-0.035896	-2.3537	52.848E-6	
12.50000	69.56250	89.00000	-2.0218	88.600	-0.032570	-2.1979	49.416E-6	
12.50000	70.75000	89.00000	-1.9013	88.600	-0.028820	-2.0300	45.731E-6	
12.50000	71.93750	89.00000	-1.7785	88.600	-0.024837	-1.8551	41.897E-6	
12.50000	73.12500	89.00000	-1.6555	88.600	-0.020871	-1.6792	38.038E-6	
12.50000	74.31250	89.00000	-1.5344	88.600	-0.017162	-1.5083	34.278E-6	
12.50000	75.50000	89.00000	-1.4159	88.600	-0.013881	-1.3471	30.717E-6	
12.50000	76.68750	89.00000	-1.3045	88.600	-0.011107	-1.1989	27.425E-6	
12.50000	77.87500	89.00000	-1.1980	88.600	-0.0088398	-1.0651	24.438E-6	
12.50000	79.06250	89.00000	-1.0981	88.600	-0.0070268	-0.94606	21.764E-6	
12.50000	80.25000	89.00000	-1.0048	88.600	-0.0055962	-0.84100	19.393E-6	
12.50000	81.43750	89.00000	-0.91726	88.600	-0.0044948	-0.74816	17.303E-6	
12.50000	82.62500	89.00000	-0.83817	88.600	-0.0035970	-0.66812	15.467E-6	
12.50000	83.81250	89.00000	-0.76424	88.600	-0.0029089	-0.59757	13.855E-6	
12.50000	85.00000	89.00000	-0.69612	88.600	-0.0023673	-0.53586	12.441E-6	
13.75000	-10.00000	89.00000	-1.8232	88.600	-704.52E-6	-0.64730	15.181E-6	
13.75000	-8.81250	89.00000	-1.9978	88.600	-0.0014773	-0.82288	19.218E-6	
13.75000	-7.62500	89.00000	-2.4337	88.600	-0.0020162	-1.0810	25.294E-6	
13.75000	-6.43750	89.00000	-2.8550	88.600	-0.0039301	-1.4840	34.640E-6	
13.75000	-5.25000	89.00000	-3.4039	88.600	-0.0089220	-2.1689	50.402E-6	
13.75000	-4.06250	89.00000	-4.1633	88.600	-0.026101	-3.5000	80.511E-6	
13.75000	-2.87500	89.00000	-5.2252	88.600	-0.12925	-6.8234	151.73E-6	
13.75000	-1.68750	89.00000	-7.4503	88.600	-3.0042	-23.241	334.79E-6	
13.75000	-0.50000	89.00000	-11.986	88.600	-46.647	-93.996	-0.0010811	
13.75000	0.68750	89.00000	-13.818	88.600	-47.905	-105.14	-907.57E-6	
13.75000	1.87500	89.00000	-14.819	88.600	-47.974	-107.80	-849.82E-6	
13.75000	3.06250	89.00000	-15.434	88.600	-47.986	-108.94	-826.43E-6	
13.75000	4.25000	89.00000	-15.820	88.600	-47.989	-109.26	-816.77E-6	
13.75000	5.43750	89.00000	-16.041	88.600	-47.988	-109.32	-815.07E-6	
13.75000	6.62500	89.00000	-16.115	88.600	-47.983	-109.07	-820.76E-6	
13.75000	7.81250	89.00000	-16.022	88.600	-47.989	-108.24	-838.56E-6	
13.75000	9.00000	89.00000	-15.711	88.600	-47.959	-105.92	-882.70E-6	
13.75000	10.18750	89.00000	-15.278	88.600	-47.474	-102.36	-942.66E-6	
13.75000	11.37500	89.00000	-14.991	88.600	-47.394	-100.70	-975.98E-6	
13.75000	12.56250	89.00000	-14.846	88.600	-47.380	-100.09	-989.41E-6	
13.75000	13.75000	89.00000	-14.775	88.600	-47.377	-99.833	-995.27E-6	
13.75000	14.93750	89.00000	-14.720	88.600	-47.376	-99.712	-998.65E-6	
13.75000	16.12500	89.00000	-14.722	88.600	-47.376	-99.652	-999.44E-6	
13.75000	17.31250	89.00000	-14.713	88.600	-47.376	-99.623	-0.0010001	
13.75000	18.50000	89.00000	-14.707	88.600	-47.376	-99.610	-0.0010004	
13.75000	19.68750	89.00000	-14.700	88.600	-47.376	-99.607	-0.0010005	
13.75000	20.87500	89.00000	-14.689	88.600	-47.376	-99.610	-0.0010004	
13.75000	22.06250	89.00000	-14.674	88.600	-47.376	-99.616	-0.0010003	
13.75000	23.25000	89.00000	-14.651	88.600	-47.376	-99.622	-0.0010002	
13.75000	24.43750	89.00000	-14.619	88.600	-47.377	-99.628	-0.0010000	
13.75000	25.62500	89.00000	-14.575	88.600	-47.377	-99.631	-999.98E-6	
13.75000	26.81250	89.00000	-14.516	88.600	-47.377	-99.627	-0.0010001	
13.75000	28.00000	89.00000	-14.437	88.600	-47.377	-99.610	-0.0010005	
13.75000	29.18750	89.00000	-14.332	88.600	-47.378	-99.568	-0.0010015	</



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore Demolition Unload (Undrained) Output

Dr. Ref.

Made by

Date

Checked

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains a large list of data points for various locations and stress measurements.



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
16.25000	39.87500	89.00000	-4.2711	88.600	-0.016313	-2.8836	66.697E-6	
16.25000	41.06250	89.00000	-3.9685	88.600	-0.014338	-2.5574	59.162E-6	
16.25000	42.25000	89.00000	-3.6966	88.600	-0.013123	-2.3000	53.192E-6	
16.25000	43.43750	89.00000	-3.4590	88.600	-0.012603	-2.1119	48.801E-6	
16.25000	44.62500	89.00000	-3.2546	88.600	-0.012530	-1.9813	45.735E-6	
16.25000	45.81250	89.00000	-3.0794	88.600	-0.012681	-1.8930	43.646E-6	
16.25000	47.00000	89.00000	-2.9289	88.600	-0.012920	-1.8336	42.233E-6	
16.25000	48.18750	89.00000	-2.7986	88.600	-0.013176	-1.7936	41.272E-6	
16.25000	49.37500	89.00000	-2.6848	88.600	-0.013415	-1.7661	40.608E-6	
16.25000	50.56250	89.00000	-2.5843	88.600	-0.013624	-1.7464	40.130E-6	
16.25000	51.75000	89.00000	-2.4943	88.600	-0.013795	-1.7313	39.763E-6	
16.25000	52.93750	89.00000	-2.4127	88.600	-0.013927	-1.7185	39.451E-6	
16.25000	54.12500	89.00000	-2.3375	88.600	-0.014018	-1.7062	39.156E-6	
16.25000	55.31250	89.00000	-2.2670	88.600	-0.014068	-1.6931	38.845E-6	
16.25000	56.50000	89.00000	-2.2000	88.600	-0.014074	-1.6783	38.495E-6	
16.25000	57.68750	89.00000	-2.1351	88.600	-0.014035	-1.6607	38.182E-6	
16.25000	58.87500	89.00000	-2.0715	88.600	-0.013944	-1.6397	37.597E-6	
16.25000	60.06250	89.00000	-2.0081	88.600	-0.013796	-1.6146	37.016E-6	
16.25000	61.25000	89.00000	-1.9442	88.600	-0.013585	-1.5847	36.328E-6	
16.25000	62.43750	89.00000	-1.8792	88.600	-0.013301	-1.5496	35.522E-6	
16.25000	63.62500	89.00000	-1.8127	88.600	-0.012937	-1.5098	34.682E-6	
16.25000	64.81250	89.00000	-1.7442	88.600	-0.012485	-1.4621	33.520E-6	
16.25000	66.00000	89.00000	-1.6737	88.600	-0.011939	-1.4094	32.319E-6	
16.25000	67.18750	89.00000	-1.6011	88.600	-0.011298	-1.3508	30.987E-6	
16.25000	68.37500	89.00000	-1.5266	88.600	-0.010565	-1.2869	29.535E-6	
16.25000	69.56250	89.00000	-1.4500	88.600	-0.009743	-1.2185	27.963E-6	
16.25000	70.75000	89.00000	-1.3732	88.600	-0.008841	-1.1465	26.349E-6	
16.25000	71.93750	89.00000	-1.2955	88.600	-0.007911	-1.0723	24.667E-6	
16.25000	73.12500	89.00000	-1.2179	88.600	-0.0070754	-0.99733	22.967E-6	
16.25000	74.31250	89.00000	-1.1411	88.600	-0.0061965	-0.92302	21.281E-6	
16.25000	75.50000	89.00000	-1.0658	88.600	-0.0053697	-0.85067	19.618E-6	
16.25000	76.68750	89.00000	-0.99262	88.600	-0.0046130	-0.78134	18.059E-6	
16.25000	77.87500	89.00000	-0.92199	88.600	-0.0039367	-0.71582	16.565E-6	
16.25000	79.06250	89.00000	-0.85431	88.600	-0.0033438	-0.65463	15.167E-6	
16.25000	80.25000	89.00000	-0.78983	88.600	-0.0028320	-0.59801	13.872E-6	
16.25000	81.43750	89.00000	-0.72850	88.600	-0.0023953	-0.54602	12.678E-6	
16.25000	82.62500	89.00000	-0.67102	88.600	-0.0020256	-0.49855	11.588E-6	
16.25000	83.81250	89.00000	-0.61677	88.600	-0.0017143	-0.45538	10.594E-6	
16.25000	85.00000	89.00000	-0.56590	88.600	-0.0014532	-0.41624	9.6914E-6	
17.50000	-10.00000	89.00000	-1.6267	88.600	-571.03E-6	-0.55731	13.073E-6	
17.50000	-8.12500	89.00000	-1.4558	88.600	-321.36E-6	-0.69812	16.361E-6	
17.50000	-6.25000	89.00000	-1.2923	88.600	-0.0016161	-0.90359	21.147E-6	
17.50000	-4.37500	89.00000	-1.1371	88.600	-0.0031787	-1.2242	28.581E-6	
17.50000	-2.50000	89.00000	-0.9882	88.600	-0.0074167	-1.7763	41.271E-6	
17.50000	-0.62500	89.00000	-0.8436	88.600	-0.022870	-2.8871	66.317E-6	
17.50000	1.25000	89.00000	-0.7000	88.600	-0.012100	-5.8508	129.12E-6	
17.50000	3.12500	89.00000	-0.5575	88.600	-2.9874	-21.661	298.79E-6	
17.50000	5.00000	89.00000	-0.4160	88.600	-46.612	-91.554	-0.0011361	
17.50000	6.87500	89.00000	-0.2755	88.600	-47.843	-101.64	-985.54E-6	
17.50000	8.75000	89.00000	-0.1350	88.600	-47.862	-102.38	-955.44E-6	
17.50000	10.62500	89.00000	0.0055	88.600	-47.793	-102.38	-965.70E-6	
17.50000	12.50000	89.00000	0.1250	88.600	-47.511	-99.882	-0.0010036	
17.50000	14.37500	89.00000	0.2445	88.600	-47.130	-96.335	-0.0010601	
17.50000	16.25000	89.00000	0.3640	88.600	-46.590	-94.013	-0.0010296	
17.50000	18.12500	89.00000	0.4835	88.600	-45.995	-91.816	-0.0011147	
17.50000	20.00000	89.00000	0.6030	88.600	-45.353	-89.731	-0.0011888	
17.50000	21.87500	89.00000	0.7225	88.600	-44.663	-87.753	-0.0012530	
17.50000	23.75000	89.00000	0.8420	88.600	-43.924	-85.882	-0.0013083	
17.50000	25.62500	89.00000	0.9615	88.600	-43.146	-84.117	-0.0013556	
17.50000	27.50000	89.00000	1.0810	88.600	-42.329	-82.463	-0.0013958	
17.50000	29.37500	89.00000	1.2005	88.600	-41.473	-80.916	-0.0014290	
17.50000	31.25000	89.00000	1.3200	88.600	-40.577	-79.473	-0.0014552	
17.50000	33.12500	89.00000	1.4395	88.600	-39.641	-78.131	-0.0014744	
17.50000	35.00000	89.00000	1.5590	88.600	-38.664	-76.888	-0.0014866	
17.50000	36.87500	89.00000	1.6785	88.600	-37.647	-75.743	-0.0014918	
17.50000	38.75000	89.00000	1.7980	88.600	-36.589	-74.694	-0.0014890	
17.50000	40.62500	89.00000	1.9175	88.600	-35.491	-73.741	-0.0014782	
17.50000	42.50000	89.00000	2.0370	88.600	-34.353	-72.883	-0.0014594	
17.50000	44.37500	89.00000	2.1565	88.600	-33.175	-72.120	-0.0014326	
17.50000	46.25000	89.00000	2.2760	88.600	-31.957	-71.552	-0.0013978	
17.50000	48.12500	89.00000	2.3955	88.600	-30.699	-71.179	-0.0013550	
17.50000	50.00000	89.00000	2.5150	88.600	-29.401	-70.992	-0.0013042	
17.50000	51.87500	89.00000	2.6345	88.600	-28.063	-70.981	-0.0012454	
17.50000	53.75000	89.00000	2.7540	88.600	-26.685	-71.134	-0.0011786	
17.50000	55.62500	89.00000	2.8735	88.600	-25.267	-71.541	-0.0011038	
17.50000	57.50000	89.00000	2.9930	88.600	-23.809	-72.194	-0.0010110	
17.50000	59.37500	89.00000	3.1125	88.600	-22.311	-73.083	-0.0008912	
17.50000	61.25000	89.00000	3.2320	88.600	-20.773	-74.194	-0.0007454	
17.50000	63.12500	89.00000	3.3515	88.600	-19.205	-75.513	-0.0005746	
17.50000	65.00000	89.00000	3.4710	88.600	-17.607	-77.026	-0.0003788	
17.50000	66.87500	89.00000	3.5905	88.600	-15.979	-78.719	-0.0001580	
17.50000	68.75000	89.00000	3.7100	88.600	-14.321	-80.579	0.0000622	
17.50000	70.62500	89.00000	3.8295	88.600	-12.633	-82.592	0.0001424	
17.50000	72.50000	89.00000	3.9490	88.600	-10.915	-84.755	0.0002486	
17.50000	74.37500	89.00000	4.0685	88.600	-9.177	-87.066	0.0003808	
17.50000	76.25000	89.00000	4.1880	88.600	-7.429	-89.513	0.0005390	
17.50000	78.12500	89.00000	4.3075	88.600	-5.671	-92.094	0.0007232	
17.50000	80.00000	89.00000	4.4270	88.600	-3.913	-94.807	0.0009334	
17.50000	81.87500	89.00000	4.5465	88.600	-2.155	-97.640	0.0011696	
17.50000	83.75000	89.00000	4.6660	88.600	-0.407	-100.591	0.0014318	
17.50000	85.62500	89.00000	4.7855	88.600	1.341	-103.650	0.0017100	
17.50000	87.50000	89.00000	4.9050	88.600	3.073	-106.815	0.0020042	
17.50000	89.37500	89.00000	5.0245	88.600	4.805	-110.084	0.0023144	
17.50000	91.25000	89.00000	5.1440	88.600	6.537	-113.457	0.0026406	
17.50000	93.12500	89.00000	5.2635	88.600	8.269	-116.932	0.0029828	
17.50000	95.00000	89.00000	5.3830	88.600	10.001	-120.507	0.0033410	
17.50000	96.87500	89.00000	5.5025	88.600	11.733	-124.180	0.0037052	
17.50000	98.75000	89.00000	5.6220	88.600	13.465	-127.951	0.0040754	
17.50000	100.62500	89.00000	5.7415	88.600	15.197	-131.819	0.0044516	
17.50000	102.50000	89.00000	5.8610	88.600	16.929	-135.782	0.0048338	
17.50000	104.37500	89.00000	5.9805	88.600	18.661	-139.839	0.0052220	
17.50000	106.25000	89.00000	6.1000	88.600	20.393	-143.990	0.0056162	
17.50000	108.12500	89.00000	6.2195	88.600	22.125	-148.235	0.0060164	
17.50000	110.00000	89.00000	6.3390	88.600	23.857	-152.574	0.0064226	
17.50000	111.87500	89.00000	6.4585	88.600	25.589	-157.007	0.0068348	
17.50000	113.75000	89.00000	6.5780	88.600	27.321	-161.534	0.0072530	
17.50000	115.62500	89.00000	6.6975	88.600	29.053	-166.155	0.0076772	
17.50000	117.50000	89.00000	6.8170	88.600	30.785	-170.870	0.0081074	
17.50000	119.37500	89.00000	6.9365	88.600	32.517	-175.679	0.0085436	
17.50000	121.25000	89.00000	7.0560	88.600	34.249	-180.582	0.0089858	
17.50000	123.12500	89.00000	7.1755	88.600	35.981	-185.579	0.0094340	
17.50000	125.00000	89.00000	7.2950	88.600	37.713	-190.670	0.0098882	
17.50000	126.87500	89.00000	7.4145	88.600	39.445	-195.855	0.0103484	
17.50000	128.75000	89.00000	7.5340	88.600	41.177	-201.134	0.0108146	
17.50000	130.62500	89.00000	7.65					



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [moD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
18.75000	14.93750	89.00000	-5.2070	88.600	-0.010603	-3.0282	70.503E-6	
18.75000	16.12500	89.00000	-5.1704	88.600	-0.010250	-2.9594	68.910E-6	
18.75000	17.31250	89.00000	-5.1448	88.600	-0.010110	-2.9214	68.026E-6	
18.75000	18.50000	89.00000	-5.1246	88.600	-0.010065	-2.9004	67.534E-6	
18.75000	19.68750	89.00000	-5.1061	88.600	-0.010069	-2.8890	67.265E-6	
18.75000	20.87500	89.00000	-5.0865	88.600	-0.010101	-2.8891	67.124E-6	
18.75000	22.06250	89.00000	-5.0640	88.600	-0.010154	-2.8801	67.050E-6	
18.75000	23.25000	89.00000	-5.0367	88.600	-0.010223	-2.8781	66.999E-6	
18.75000	24.43750	89.00000	-5.0032	88.600	-0.010306	-2.8757	66.937E-6	
18.75000	25.62500	89.00000	-4.9618	88.600	-0.010402	-2.8713	66.826E-6	
18.75000	26.81250	89.00000	-4.9107	88.600	-0.010506	-2.8630	66.622E-6	
18.75000	28.00000	89.00000	-4.8479	88.600	-0.010611	-2.8483	66.269E-6	
18.75000	29.18750	89.00000	-4.7710	88.600	-0.010702	-2.8237	65.686E-6	
18.75000	30.37500	89.00000	-4.6773	88.600	-0.010747	-2.7844	64.757E-6	
18.75000	31.56250	89.00000	-4.5639	88.600	-0.010687	-2.7234	63.325E-6	
18.75000	32.75000	89.00000	-4.4278	88.600	-0.010419	-2.6223	61.201E-6	
18.75000	33.93750	89.00000	-4.2680	88.600	-0.0098241	-2.5048	58.242E-6	
18.75000	35.12500	89.00000	-4.0871	88.600	-0.0088884	-2.3440	54.525E-6	
18.75000	36.31250	89.00000	-3.8928	88.600	-0.0078533	-2.1680	50.457E-6	
18.75000	37.50000	89.00000	-3.6946	88.600	-0.0070429	-1.9998	46.557E-6	
18.75000	38.68750	89.00000	-3.4995	88.600	-0.0063585	-1.8518	43.110E-6	
18.75000	39.87500	89.00000	-3.3115	88.600	-0.0063182	-1.7254	40.151E-6	
18.75000	41.06250	89.00000	-3.1332	88.600	-0.0062276	-1.6183	37.637E-6	
18.75000	42.25000	89.00000	-2.9664	88.600	-0.0062338	-1.5291	35.539E-6	
18.75000	43.43750	89.00000	-2.8128	88.600	-0.0063085	-1.4570	33.837E-6	
18.75000	44.62500	89.00000	-2.6728	88.600	-0.0064293	-1.4013	32.494E-6	
18.75000	45.81250	89.00000	-2.5463	88.600	-0.0065755	-1.3567	31.459E-6	
18.75000	47.00000	89.00000	-2.4324	88.600	-0.0067296	-1.3237	30.672E-6	
18.75000	48.18750	89.00000	-2.3299	88.600	-0.0068790	-1.2987	30.072E-6	
18.75000	49.37500	89.00000	-2.2372	88.600	-0.0070153	-1.2795	29.610E-6	
18.75000	50.56250	89.00000	-2.1531	88.600	-0.0071397	-1.2642	29.242E-6	
18.75000	51.75000	89.00000	-2.0762	88.600	-0.0072311	-1.2513	28.933E-6	
18.75000	52.93750	89.00000	-2.0051	88.600	-0.0073061	-1.2397	28.654E-6	
18.75000	54.12500	89.00000	-1.9388	88.600	-0.0073574	-1.2284	28.384E-6	
18.75000	55.31250	89.00000	-1.8763	88.600	-0.0073841	-1.2166	28.104E-6	
18.75000	56.50000	89.00000	-1.8166	88.600	-0.0073850	-1.2036	27.798E-6	
18.75000	57.68750	89.00000	-1.7589	88.600	-0.0073587	-1.1889	27.454E-6	
18.75000	58.87500	89.00000	-1.7025	88.600	-0.0073032	-1.1721	27.062E-6	
18.75000	60.06250	89.00000	-1.6469	88.600	-0.0072163	-1.1527	26.613E-6	
18.75000	61.25000	89.00000	-1.5915	88.600	-0.0070958	-1.1305	26.098E-6	
18.75000	62.43750	89.00000	-1.5359	88.600	-0.0069391	-1.1051	25.513E-6	
18.75000	63.62500	89.00000	-1.4798	88.600	-0.0067441	-1.0765	24.854E-6	
18.75000	64.81250	89.00000	-1.4229	88.600	-0.0065094	-1.0446	24.119E-6	
18.75000	66.00000	89.00000	-1.3652	88.600	-0.0062348	-1.0093	23.309E-6	
18.75000	67.18750	89.00000	-1.3066	88.600	-0.0059235	-0.97096	22.428E-6	
18.75000	68.37500	89.00000	-1.2472	88.600	-0.0055729	-0.92975	21.483E-6	
18.75000	69.56250	89.00000	-1.1871	88.600	-0.0051945	-0.88612	20.483E-6	
18.75000	70.75000	89.00000	-1.1267	88.600	-0.0047939	-0.84062	19.441E-6	
18.75000	71.93750	89.00000	-1.0663	88.600	-0.0043804	-0.79387	18.370E-6	
18.75000	73.12500	89.00000	-1.0061	88.600	-0.0039641	-0.74654	17.286E-6	
18.75000	74.31250	89.00000	-0.94656	88.600	-0.0035550	-0.69933	16.203E-6	
18.75000	75.50000	89.00000	-0.88808	88.600	-0.0031622	-0.65281	15.137E-6	
18.75000	76.68750	89.00000	-0.83096	88.600	-0.0027928	-0.60761	14.099E-6	
18.75000	77.87500	89.00000	-0.77552	88.600	-0.0024519	-0.56416	13.101E-6	
18.75000	79.06250	89.00000	-0.72200	88.600	-0.0021424	-0.52280	12.150E-6	
18.75000	80.25000	89.00000	-0.67060	88.600	-0.0018653	-0.48378	11.251E-6	
18.75000	81.43750	89.00000	-0.62146	88.600	-0.0016199	-0.44722	10.409E-6	
18.75000	82.62500	89.00000	-0.57468	88.600	-0.0014047	-0.41317	9.6226E-6	
18.75000	83.81250	89.00000	-0.53029	88.600	-0.0012171	-0.38162	8.8933E-6	
18.75000	85.00000	89.00000	-0.48832	88.600	-0.0010545	-0.35248	8.2192E-6	
20.00000	-10.00000	89.00000	-1.4509	88.600	-435.04E-6	-0.47404	11.123E-6	
20.00000	-8.81250	89.00000	-1.6384	88.600	-676.76E-6	-0.57999	13.599E-6	
20.00000	-7.62500	89.00000	-1.8591	88.600	-0.0011356	-0.72885	17.069E-6	
20.00000	-6.43750	89.00000	-2.1239	88.600	-0.0021198	-0.95066	22.219E-6	
20.00000	-5.25000	89.00000	-2.4317	88.600	-0.0046539	-2.3115	50.531E-6	
20.00000	-4.06250	89.00000	-2.8803	88.600	-0.013468	-1.9904	45.882E-6	
20.00000	-2.87500	89.00000	-3.5004	88.600	-0.069047	-3.6889	81.923E-6	
20.00000	-1.68750	89.00000	-4.6053	88.600	-1.9850	-13.079	167.61E-6	
20.00000	-0.50000	89.00000	-7.1567	88.600	-33.571	-54.722	-0.0010821	
20.00000	0.68750	89.00000	-4.3629	88.600	-4.6830	-25.918	279.26E-6	
20.00000	1.87500	89.00000	-6.3293	88.600	-2.9557	-19.726	255.50E-6	
20.00000	3.06250	89.00000	-6.0805	88.600	-0.59954	-12.145	243.45E-6	
20.00000	4.25000	89.00000	-5.8885	88.600	-0.32092	-9.3596	197.57E-6	
20.00000	5.43750	89.00000	-5.6771	88.600	-0.15167	-7.2621	160.17E-6	
20.00000	6.62500	89.00000	-5.4509	88.600	-0.089599	-5.8858	132.11E-6	
20.00000	7.81250	89.00000	-5.2508	88.600	-0.053099	-4.7880	108.91E-6	
20.00000	9.00000	89.00000	-5.0365	88.600	-0.030969	-3.8877	89.288E-6	
20.00000	10.18750	89.00000	-4.8461	88.600	-0.016819	-3.1844	73.740E-6	
20.00000	11.37500	89.00000	-4.7009	88.600	-0.0098244	-2.7198	63.301E-6	
20.00000	12.56250	89.00000	-4.6011	88.600	-0.0063271	-2.4438	57.020E-6	
20.00000	13.75000	89.00000	-4.5351	88.600	-0.0058866	-2.2855	53.383E-6	
20.00000	14.93750	89.00000	-4.4912	88.600	-0.0050513	-2.1944	51.277E-6	
20.00000	16.12500	89.00000	-4.4608	88.600	-0.0048152	-2.1414	50.046E-6	
20.00000	17.31250	89.00000	-4.4382	88.600	-0.0047146	-2.1104	49.323E-6	
20.00000	18.50000	89.00000	-4.4193	88.600	-0.0046812	-2.0929	48.901E-6	
20.00000	19.68750	89.00000	-4.4013	88.600	-0.0046848	-2.0821	48.659E-6	
20.00000	20.87500	89.00000	-4.3822	88.600	-0.0047114	-2.0764	48.523E-6	
20.00000	22.06250	89.00000	-4.3604	88.600	-0.0047545	-2.0732	48.445E-6	
20.00000	23.25000	89.00000	-4.3343	88.600	-0.0048105	-2.0709	48.389E-6	
20.00000	24.43750	89.00000	-4.3027	88.600	-0.0048776	-2.0694	48.342E-6	
20.00000	25.62500	89.00000	-4.2642	88.600	-0.0049542	-2.0643	48.223E-6	
20.00000	26.81250	89.00000	-4.2175	88.600	-0.0050378	-2.0573	48.052E-6	
20.00000	28.00000	89.00000	-4.1611	88.600	-0.0051244	-2.0458	47.775E-6	
20.00000	29.18750	89.00000	-4.0934	88.600	-0.0052061	-2.0276	47.341E-6	
20.00000	30.37500	89.00000	-4.0190	88.600	-0.0052700	-2.0022	46.691E-6	
20.00000	31.56250	89.00000	-3.9184	88.600	-0.0052957	-1.9605	45.756E-6	
20.00000	32.75000	89.00000	-3.8086	88.600	-0.0052578	-1.9058	44.472E-6	
20.00000	33.93750	89.00000	-3.6838	88.600	-0.0051374	-1.8151	42.817E-6	
20.00000	35.12500	89.00000	-3.5462	88.600	-0.0049452	-1.7508	40.846E-6	
20.00000	36.31250	89.00000	-3.3995	88.600	-0.0047932	-1.6519	37.704E-6	
20.00000	37.50000	89.00000	-3.2483	88.600	-0.0045649	-1.5678	36.568E-6	
20.00000	38.68750	89.00000	-3.0970	88.600	-0.0044728	-1.4826	34.570E-6	
20.00000	39.87500	89.00000	-2.9487	88.600	-0.0044532	-1.4062	32.773E-6	
20.00000	41.06250	89.00000	-2.8058	88.600	-0.0044884	-1.3393	31.196E-6	
20.00000	42.25000	89.00000	-2.6703	88.600	-0.0045621	-1.2820	29.848E-6	
20.00000	43.43750	89.00000	-2.5433	88.600	-0.0046620	-1.2342	28.711E-6	
20.00000	44.62500	89.00000	-2.4256	88.600	-0.0047780	-1.1952	27.784E-6	
20.00000	45.81250	89.00000	-2.3173	88.600	-0.0049011	-1.1639	27.040E-6	
20.00000	47.00000	89.00000	-2.2181	88.600	-0.0050235	-1.1391	26.447E-6	
20.00000	48.18750	89.00000	-2.1274	88.600	-0.0051392	-1.1194	25.976E-6	
20.00000	49.37500	89.00000	-2.0444	88.600	-0.0052437	-1.1036	25.596E-6	
20.00000	50.56250	89.00000	-1.9681	88.600	-0.0053341	-1.0904	25.279E-6	
20.00000	51.75000	89.00000	-1.8975	88.600	-0.0054085	-1.0789	25.	



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
21.25000	-10.00000	89.00000	-1.3568	88.600	-364.48E-6	-0.43044	10.102E-6	
21.25000	-8.81250	89.00000	-1.5229	88.600	-549.24E-6	-0.51846	12.160E-6	
21.25000	-7.62500	89.00000	-1.7150	88.600	-882.73E-6	-0.63809	14.952E-6	
21.25000	-6.43750	89.00000	-1.9397	88.600	-0.0015484	-0.80820	18.907E-6	
21.25000	-5.25000	89.00000	-2.2076	88.600	-0.0030786	-1.0657	24.859E-6	
21.25000	-4.06250	89.00000	-2.5360	88.600	-0.0074164	-1.4931	34.609E-6	
21.25000	-2.87500	89.00000	-2.9540	88.600	-0.024395	-2.3060	52.537E-6	
21.25000	-1.68750	89.00000	-3.4896	88.600	-0.11767	-4.0662	87.369E-6	
21.25000	-0.50000	89.00000	-4.0194	88.600	-0.27173	-6.0893	124.10E-6	
21.25000	0.68750	89.00000	-4.5128	88.600	-0.15196	-5.8334	126.53E-6	
21.25000	1.87500	89.00000	-4.9501	88.600	-0.096910	-5.2700	117.16E-6	
21.25000	3.06250	89.00000	-4.4934	88.600	-0.060119	-4.6303	104.70E-6	
21.25000	4.25000	89.00000	-4.4856	88.600	-0.040545	-4.0841	93.234E-6	
21.25000	5.43750	89.00000	-4.4435	88.600	-0.028009	-3.6039	82.821E-6	
21.25000	6.62500	89.00000	-4.3777	88.600	-0.019917	-3.1832	73.493E-6	
21.25000	7.81250	89.00000	-4.2925	88.600	-0.015543	-2.8053	65.007E-6	
21.25000	9.00000	89.00000	-4.2058	88.600	-0.0098588	-2.4701	57.424E-6	
21.25000	10.18750	89.00000	-4.1195	88.600	-0.0067717	-2.1905	51.064E-6	
21.25000	11.37500	89.00000	-4.0461	88.600	-0.0048124	-1.9792	46.231E-6	
21.25000	12.56250	89.00000	-3.9890	88.600	-0.0037098	-1.8330	42.867E-6	
21.25000	13.75000	89.00000	-3.9467	88.600	-0.0031212	-1.7371	40.653E-6	
21.25000	14.93750	89.00000	-3.9158	88.600	-0.0028373	-1.6761	39.237E-6	
21.25000	16.12500	89.00000	-3.8925	88.600	-0.0026925	-1.6378	38.347E-6	
21.25000	17.31250	89.00000	-3.8738	88.600	-0.0026271	-1.6141	37.794E-6	
21.25000	18.50000	89.00000	-3.8571	88.600	-0.0026058	-1.5997	37.457E-6	
21.25000	19.68750	89.00000	-3.8406	88.600	-0.0026122	-1.5912	37.265E-6	
21.25000	20.87500	89.00000	-3.8227	88.600	-0.0026341	-1.5862	37.137E-6	
21.25000	22.06250	89.00000	-3.8022	88.600	-0.0026698	-1.5833	37.066E-6	
21.25000	23.25000	89.00000	-3.7777	88.600	-0.0027158	-1.5811	37.012E-6	
21.25000	24.43750	89.00000	-3.7484	88.600	-0.0027705	-1.5788	36.953E-6	
21.25000	25.62500	89.00000	-3.7131	88.600	-0.0028327	-1.5754	36.867E-6	
21.25000	26.81250	89.00000	-3.6710	88.600	-0.0029009	-1.5698	36.731E-6	
21.25000	28.00000	89.00000	-3.6208	88.600	-0.0029727	-1.5610	36.520E-6	
21.25000	29.18750	89.00000	-3.5617	88.600	-0.0030446	-1.5478	36.204E-6	
21.25000	30.37500	89.00000	-3.4927	88.600	-0.0031109	-1.5288	35.753E-6	
21.25000	31.56250	89.00000	-3.4133	88.600	-0.0031647	-1.5007	35.133E-6	
21.25000	32.75000	89.00000	-3.3231	88.600	-0.0031991	-1.4686	34.329E-6	
21.25000	33.93750	89.00000	-3.2227	88.600	-0.0032108	-1.4264	33.335E-6	
21.25000	35.12500	89.00000	-3.1135	88.600	-0.0032049	-1.3774	32.184E-6	
21.25000	36.31250	89.00000	-2.9978	88.600	-0.0031951	-1.3244	30.938E-6	
21.25000	37.50000	89.00000	-2.8782	88.600	-0.0031976	-1.2706	29.617E-6	
21.25000	38.68750	89.00000	-2.7574	88.600	-0.0032228	-1.2187	28.449E-6	
21.25000	39.87500	89.00000	-2.6378	88.600	-0.0032723	-1.1706	27.314E-6	
21.25000	41.06250	89.00000	-2.5213	88.600	-0.0033423	-1.1273	26.290E-6	
21.25000	42.25000	89.00000	-2.4094	88.600	-0.0034276	-1.0893	25.389E-6	
21.25000	43.43750	89.00000	-2.3031	88.600	-0.0035226	-1.0566	24.613E-6	
21.25000	44.62500	89.00000	-2.2033	88.600	-0.0036226	-1.0291	23.959E-6	
21.25000	45.81250	89.00000	-2.1101	88.600	-0.0037229	-1.0063	23.414E-6	
21.25000	47.00000	89.00000	-2.0236	88.600	-0.0038197	-0.98744	22.964E-6	
21.25000	48.18750	89.00000	-1.9434	88.600	-0.0039097	-0.97188	22.592E-6	
21.25000	49.37500	89.00000	-1.8690	88.600	-0.0039904	-0.9588	22.279E-6	
21.25000	50.56250	89.00000	-1.8000	88.600	-0.0040600	-0.94755	22.009E-6	
21.25000	51.75000	89.00000	-1.7356	88.600	-0.0041172	-0.93738	21.765E-6	
21.25000	52.93750	89.00000	-1.6752	88.600	-0.0041610	-0.92774	21.535E-6	
21.25000	54.12500	89.00000	-1.6182	88.600	-0.0041962	-0.91814	21.307E-6	
21.25000	55.31250	89.00000	-1.5639	88.600	-0.0042054	-0.90806	21.069E-6	
21.25000	56.50000	89.00000	-1.5119	88.600	-0.0042048	-0.89722	20.814E-6	
21.25000	57.68750	89.00000	-1.4615	88.600	-0.0041879	-0.88526	20.534E-6	
21.25000	58.87500	89.00000	-1.4124	88.600	-0.0041541	-0.87192	20.223E-6	
21.25000	60.06250	89.00000	-1.3649	88.600	-0.0041026	-0.85697	19.875E-6	
21.25000	61.25000	89.00000	-1.3164	88.600	-0.0040325	-0.84025	19.486E-6	
21.25000	62.43750	89.00000	-1.2689	88.600	-0.0039433	-0.82163	19.054E-6	
21.25000	63.62500	89.00000	-1.2214	88.600	-0.0038346	-0.80104	18.577E-6	
21.25000	64.81250	89.00000	-1.1737	88.600	-0.0037064	-0.77846	18.055E-6	
21.25000	66.00000	89.00000	-1.1259	88.600	-0.0035533	-0.75359	17.489E-6	
21.25000	67.18750	89.00000	-1.0778	88.600	-0.0033943	-0.72765	16.882E-6	
21.25000	68.37500	89.00000	-1.0294	88.600	-0.0032134	-0.69970	16.237E-6	
21.25000	69.56250	89.00000	-0.98099	88.600	-0.0030192	-0.67036	15.560E-6	
21.25000	70.75000	89.00000	-0.93254	88.600	-0.0028151	-0.63991	14.858E-6	
21.25000	71.93750	89.00000	-0.88426	88.600	-0.0026047	-0.60848	14.138E-6	
21.25000	73.12500	89.00000	-0.83635	88.600	-0.0023922	-0.57703	13.408E-6	
21.25000	74.31250	89.00000	-0.78902	88.600	-0.0021816	-0.54530	12.677E-6	
21.25000	75.50000	89.00000	-0.74247	88.600	-0.0019765	-0.51385	11.951E-6	
21.25000	76.68750	89.00000	-0.69693	88.600	-0.0017802	-0.48298	11.239E-6	
21.25000	77.87500	89.00000	-0.65256	88.600	-0.0015951	-0.45285	10.545E-6	
21.25000	79.06250	89.00000	-0.60954	88.600	-0.0014229	-0.42401	9.8762E-6	
21.25000	80.25000	89.00000	-0.56801	88.600	-0.0012648	-0.39631	9.2356E-6	
21.25000	81.43750	89.00000	-0.52807	88.600	-0.0011210	-0.36997	8.6260E-6	
21.25000	82.62500	89.00000	-0.48981	88.600	-991.37E-6	-0.34507	8.0494E-6	
21.25000	83.81250	89.00000	-0.45328	88.600	-875.39E-6	-0.32165	7.5065E-6	
21.25000	85.00000	89.00000	-0.41851	88.600	-772.24E-6	-0.29971	6.9975E-6	
22.50000	-10.00000	89.00000	-1.2620	88.600	-298.71E-6	-0.38796	9.1075E-6	
22.50000	-8.81250	89.00000	-1.4076	88.600	-433.17E-6	-0.45946	10.780E-6	
22.50000	-7.62500	89.00000	-1.5727	88.600	-660.22E-6	-0.55287	12.962E-6	
22.50000	-6.43750	89.00000	-1.7609	88.600	-0.0010713	-0.67843	15.889E-6	
22.50000	-5.25000	89.00000	-1.9765	88.600	-0.0018809	-0.85289	19.935E-6	
22.50000	-4.06250	89.00000	-2.2246	88.600	-0.0036297	-1.1035	25.708E-6	
22.50000	-2.87500	89.00000	-2.5077	88.600	-0.0076308	-1.4675	33.990E-6	
22.50000	-1.68750	89.00000	-2.8151	88.600	-0.015497	-1.9493	44.771E-6	
22.50000	-0.50000	89.00000	-3.1046	88.600	-0.022679	-2.3905	54.645E-6	
22.50000	0.68750	89.00000	-3.3289	88.600	-0.022133	-2.5913	59.410E-6	
22.50000	1.87500	89.00000	-3.4812	88.600	-0.018459	-2.5977	59.818E-6	
22.50000	3.06250	89.00000	-3.5757	88.600	-0.014669	-2.2023	57.843E-6	
22.50000	4.25000	89.00000	-3.6270	88.600	-0.011596	-2.3626	54.774E-6	
22.50000	5.43750	89.00000	-3.6462	88.600	-0.009081	-2.6462	51.255E-6	
22.50000	6.62500	89.00000	-3.6412	88.600	-0.0071475	-2.0443	47.596E-6	
22.50000	7.81250	89.00000	-3.6189	88.600	-0.0055847	-1.8859	43.980E-6	
22.50000	9.00000	89.00000	-3.5860	88.600	-0.0043235	-1.7377	40.581E-6	
22.50000	10.18750	89.00000	-3.5492	88.600	-0.0033468	-1.6075	37.588E-6	
22.50000	11.37500	89.00000	-3.5139	88.600	-0.0026503	-1.5016	35.145E-6	
22.50000	12.56250	89.00000	-3.4833	88.600	-0.0021962	-1.4214	33.290E-6	
22.50000	13.75000	89.00000	-3.4583	88.600	-0.0019212	-1.3640	31.958E-6	
22.50000	14.93750	89.00000	-3.4381	88.600	-0.0017643	-1.3245	31.040E-6	
22.50000	16.12500	89.00000	-3.4215	88.600	-0.0016806	-1.2982	30.426E-6	
22.50000	17.31250	89.00000	-3.4069	88.600	-0.0016418	-1.2810	30.026E-6	
22.50000	18.50000	89.00000	-3.3930	88.600	-0.0016309	-1.2702	29.773E-6	
22.50000	19.68750	89.00000	-3.3784	88.600	-0.0016383	-1.2636	29.617E-6	
22.50000	20.87500	89.00000	-3.3621	88.600	-0.0016587	-1.2597	29.522E-6	
22.50000	22.06250	89.00000	-3.3432	88.600	-0.0016988	-1.2572	29.463E-6	
22.50000	23.25000	89.00000	-3.3208	88.600	-0.0017269	-1.2554	29.417E-6	
22.50000	24.43750	89.00000	-3.2940	88.600	-0.0017720	-1.2535	29.369E-6	
22.50000	25.62500	89.00000	-3.2621	88.600	-0.0018230	-1.2507	29.301E-6	
22.50000	26.81250	89.00000	-3.2243	88.600				



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
22.50000	61.25000	89.00000	-1.2004	88.600	-0.0031160	-0.73336	17.036E-6	
22.50000	62.43750	89.00000	-1.1565	88.600	-0.0030480	-0.71728	16.662E-6	
22.50000	63.62500	89.00000	-1.1127	88.600	-0.0029657	-0.69965	16.253E-6	
22.50000	64.81250	89.00000	-1.0690	88.600	-0.0028692	-0.68047	15.809E-6	
22.50000	66.00000	89.00000	-1.0253	88.600	-0.0027593	-0.65978	15.330E-6	
22.50000	67.18750	89.00000	-0.9815	88.600	-0.0026368	-0.63789	14.818E-6	
22.50000	68.37500	89.00000	-0.9377	88.600	-0.0025031	-0.61432	14.278E-6	
22.50000	69.56250	89.00000	-0.8939	88.600	-0.0023601	-0.58986	13.712E-6	
22.50000	70.75000	89.00000	-0.8501	88.600	-0.0022100	-0.56452	13.127E-6	
22.50000	71.93750	89.00000	-0.8067	88.600	-0.0020554	-0.53856	12.527E-6	
22.50000	73.12500	89.00000	-0.7636	88.600	-0.0018990	-0.51224	11.919E-6	
22.50000	74.31250	89.00000	-0.7214	88.600	-0.0017434	-0.48581	11.308E-6	
22.50000	75.50000	89.00000	-0.6793	88.600	-0.0015911	-0.45954	10.700E-6	
22.50000	76.68750	89.00000	-0.6389	88.600	-0.0014443	-0.43366	10.102E-6	
22.50000	77.87500	89.00000	-0.5984	88.600	-0.0013047	-0.40838	9.5168E-6	
22.50000	79.06250	89.00000	-0.5597	88.600	-0.0011737	-0.38388	8.946E-6	
22.50000	80.25000	89.00000	-0.5221	88.600	-0.0010521	-0.36030	8.4035E-6	
22.50000	81.43750	89.00000	-0.4860	88.600	-940.35E-6	-0.33776	7.8809E-6	
22.50000	82.62500	89.00000	-0.4513	88.600	-838.53E-6	-0.31632	7.3835E-6	
22.50000	83.81250	89.00000	-0.4184	88.600	-746.44E-6	-0.29602	6.9125E-6	
22.50000	85.00000	89.00000	-0.3864	88.600	-663.86E-6	-0.27689	6.4682E-6	
23.75000	-10.00000	89.00000	-1.1687	88.600	-241.12E-6	-0.34805	8.1724E-6	
23.75000	-8.81250	89.00000	-1.2954	88.600	-335.48E-6	-0.40526	9.5118E-6	
23.75000	-7.62500	89.00000	-1.4365	88.600	-483.45E-6	-0.47700	11.189E-6	
23.75000	-6.43750	89.00000	-1.5933	88.600	-724.70E-6	-0.56816	13.317E-6	
23.75000	-5.25000	89.00000	-1.7670	88.600	-1011.31E-6	-0.68050	16.039E-6	
23.75000	-4.06250	89.00000	-1.9575	88.600	-1301.82E-6	-0.83443	19.505E-6	
23.75000	-2.87500	89.00000	-2.1617	88.600	-1602.95E-6	-1.0185	23.757E-6	
23.75000	-1.68750	89.00000	-2.3704	88.600	-1904.61E-6	-1.2230	28.460E-6	
23.75000	-0.50000	89.00000	-2.5670	88.600	-2196.82E-6	-1.4076	32.713E-6	
23.75000	0.68750	89.00000	-2.7675	88.600	-2478.57E-6	-1.5637	35.603E-6	
23.75000	1.87500	89.00000	-2.8675	88.600	-2605.89E-6	-1.5875	36.937E-6	
23.75000	3.06250	89.00000	-2.9649	88.600	-2605.26E-6	-1.5901	37.044E-6	
23.75000	4.25000	89.00000	-3.0318	88.600	-2504.50E-6	-1.5577	36.330E-6	
23.75000	5.43750	89.00000	-3.0736	88.600	-2303.87E-6	-1.5038	35.111E-6	
23.75000	6.62500	89.00000	-3.0912	88.600	-2003.25E-6	-1.4381	33.467E-6	
23.75000	7.81250	89.00000	-3.1016	88.600	-1702.63E-6	-1.3672	31.978E-6	
23.75000	9.00000	89.00000	-3.0973	88.600	-1402.01E-6	-1.2969	30.356E-6	
23.75000	10.18750	89.00000	-3.0865	88.600	-1101.39E-6	-1.2321	28.857E-6	
23.75000	11.37500	89.00000	-3.0599	88.600	-800.77E-6	-1.1764	27.567E-6	
23.75000	12.56250	89.00000	-3.0520	88.600	-500.15E-6	-1.1316	26.527E-6	
23.75000	13.75000	89.00000	-3.0460	88.600	-200.53E-6	-1.0974	25.733E-6	
23.75000	14.93750	89.00000	-3.0341	88.600	90.09E-6	-1.0726	25.154E-6	
23.75000	16.12500	89.00000	-3.0231	88.600	180.18E-6	-1.0552	24.748E-6	
23.75000	17.31250	89.00000	-3.0124	88.600	270.27E-6	-1.0434	24.473E-6	
23.75000	18.50000	89.00000	-3.0012	88.600	360.36E-6	-1.0368	24.294E-6	
23.75000	19.68750	89.00000	-2.9888	88.600	450.45E-6	-1.0310	24.181E-6	
23.75000	20.87500	89.00000	-2.9744	88.600	540.54E-6	-1.0281	24.111E-6	
23.75000	22.06250	89.00000	-2.9574	88.600	630.63E-6	-1.0263	24.067E-6	
23.75000	23.25000	89.00000	-2.9371	88.600	720.72E-6	-1.0211	24.033E-6	
23.75000	24.43750	89.00000	-2.9130	88.600	810.81E-6	-1.0236	23.997E-6	
23.75000	25.62500	89.00000	-2.8844	88.600	900.90E-6	-1.0215	23.946E-6	
23.75000	26.81250	89.00000	-2.8508	88.600	990.99E-6	-1.0184	23.870E-6	
23.75000	28.00000	89.00000	-2.8118	88.600	1081.08E-6	-1.0138	23.757E-6	
23.75000	29.18750	89.00000	-2.7685	88.600	1171.17E-6	-1.0071	23.596E-6	
23.75000	30.37500	89.00000	-2.7159	88.600	1261.26E-6	-0.9980	23.379E-6	
23.75000	31.56250	89.00000	-2.6588	88.600	1351.35E-6	-0.98625	23.098E-6	
23.75000	32.75000	89.00000	-2.5956	88.600	1441.44E-6	-0.97166	22.751E-6	
23.75000	33.93750	89.00000	-2.5268	88.600	1531.53E-6	-0.95440	22.341E-6	
23.75000	35.12500	89.00000	-2.4532	88.600	1621.62E-6	-0.93400	21.879E-6	
23.75000	36.31250	89.00000	-2.3757	88.600	1711.71E-6	-0.91384	21.379E-6	
23.75000	37.50000	89.00000	-2.2956	88.600	1801.80E-6	-0.89203	20.862E-6	
23.75000	38.68750	89.00000	-2.2141	88.600	1891.89E-6	-0.87027	20.346E-6	
23.75000	39.87500	89.00000	-2.1323	88.600	1981.98E-6	-0.84927	19.847E-6	
23.75000	41.06250	89.00000	-2.0505	88.600	2072.07E-6	-0.82915	19.378E-6	
23.75000	42.25000	89.00000	-1.9724	88.600	2162.16E-6	-0.81142	18.947E-6	
23.75000	43.43750	89.00000	-1.8959	88.600	2252.25E-6	-0.79509	18.558E-6	
23.75000	44.62500	89.00000	-1.8225	88.600	2342.34E-6	-0.78058	18.212E-6	
23.75000	45.81250	89.00000	-1.7524	88.600	2432.43E-6	-0.76780	17.907E-6	
23.75000	47.00000	89.00000	-1.6860	88.600	2522.52E-6	-0.75666	17.638E-6	
23.75000	48.18750	89.00000	-1.6231	88.600	2612.61E-6	-0.74662	17.400E-6	
23.75000	49.37500	89.00000	-1.5636	88.600	2702.70E-6	-0.73768	17.187E-6	
23.75000	50.56250	89.00000	-1.5074	88.600	2792.79E-6	-0.72945	16.990E-6	
23.75000	51.75000	89.00000	-1.4541	88.600	2882.88E-6	-0.72162	16.803E-6	
23.75000	52.93750	89.00000	-1.4035	88.600	2972.97E-6	-0.71393	16.620E-6	
23.75000	54.12500	89.00000	-1.3551	88.600	3063.06E-6	-0.70605	16.434E-6	
23.75000	55.31250	89.00000	-1.3088	88.600	3153.15E-6	-0.69781	16.239E-6	
23.75000	56.50000	89.00000	-1.2640	88.600	3243.24E-6	-0.68998	16.032E-6	
23.75000	57.68750	89.00000	-1.2207	88.600	3333.33E-6	-0.67937	15.806E-6	
23.75000	58.87500	89.00000	-1.1783	88.600	3423.42E-6	-0.66904	15.560E-6	
23.75000	60.06250	89.00000	-1.1368	88.600	3513.51E-6	-0.65725	15.289E-6	
23.75000	61.25000	89.00000	-1.0959	88.600	3603.60E-6	-0.64452	14.993E-6	
23.75000	62.43750	89.00000	-1.0553	88.600	3693.69E-6	-0.63058	14.669E-6	
23.75000	63.62500	89.00000	-1.0151	88.600	3783.78E-6	-0.61541	14.316E-6	
23.75000	64.81250	89.00000	-0.9749	88.600	3873.87E-6	-0.59900	13.935E-6	
23.75000	66.00000	89.00000	-0.93494	88.600	3963.96E-6	-0.58141	13.527E-6	
23.75000	67.18750	89.00000	-0.89499	88.600	4054.05E-6	-0.56270	13.093E-6	
23.75000	68.37500	89.00000	-0.85513	88.600	4144.14E-6	-0.54299	12.637E-6	
23.75000	69.56250	89.00000	-0.81538	88.600	4234.23E-6	-0.52241	12.160E-6	
23.75000	70.75000	89.00000	-0.77593	88.600	4324.32E-6	-0.50114	11.667E-6	
23.75000	71.93750	89.00000	-0.73656	88.600	4414.41E-6	-0.47935	11.163E-6	
23.75000	73.12500	89.00000	-0.69769	88.600	4504.50E-6	-0.45724	10.651E-6	
23.75000	74.31250	89.00000	-0.65934	88.600	4594.59E-6	-0.43502	10.136E-6	
23.75000	75.50000	89.00000	-0.62164	88.600	4684.68E-6	-0.41288	9.6236E-6	
23.75000	76.68750	89.00000	-0.58471	88.600	4774.77E-6	-0.39071	9.1167E-6	
23.75000	77.87500	89.00000	-0.54867	88.600	4864.86E-6	-0.36956	8.6195E-6	
23.75000	79.06250	89.00000	-0.51363	88.600	4954.95E-6	-0.34868	8.1355E-6	
23.75000	80.25000	89.00000	-0.47969	88.600	5045.04E-6	-0.32850	7.6672E-6	
23.75000	81.43750	89.00000	-0.44691	88.600	5135.13E-6	-0.30909	7.2168E-6	
23.75000	82.62500	89.00000	-0.41538	88.600	5225.22E-6	-0.29154	6.7863E-6	
23.75000	83.81250	89.00000	-0.38512	88.600	5315.31E-6	-0.27289	6.3758E-6	
23.75000	85.00000	89.00000	-0.35618	88.600	5405.40E-6	-0.25615	5.9868E-6	
25.00000	-10.00000	89.00000	-1.0784	88.600	-193.15E-6	-0.31159	7.3180E-6	
25.00000	-8.81250	89.00000	-1.1883	88.600	-258.00E-6	-0.35705	8.3829E-6	
25.00000	-7.62500	89.00000	-1.3086	88.600	-322.85E-6	-0.41190	9.6699E-6	
25.00000	-6.43750	89.00000	-1.4395	88.600	-387.70E-6	-0.47821	11.217E-6	
25.00000	-5.25000	89.00000	-1.5808	88.600	-452.55E-6	-0.55793	13.078E-6	
25.00000	-4.06250	89.00000	-1.7309	88.600	-517.40E-6	-0.65186	15.267E-6	
25.00000	-2.87500	89.00000	-1.8866	88.600	-582.25E-6	-0.75761	17.727E-6	
25.00000	-1.68750	89.00000	-2.0419	88.600	-647.10E-6	-0.86705	20.270E-6	
25.00000	-0.50000	89.00000	-2.1889	88.600	-711.95E-6	-0.96661	22.586E-6	
25.00000	0.68750	89.0000						



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
25.00000	36.31250	89.00000	-2.1288	88.600	-0.0013532	-0.77970	18.250E-6	
25.00000	37.50000	89.00000	-2.0617	88.600	-0.0014056	-0.76510	17.903E-6	
25.00000	38.68750	89.00000	-1.9933	88.600	-0.0014594	-0.75038	17.553E-6	
25.00000	39.87500	89.00000	-1.9244	88.600	-0.0015147	-0.73595	17.210E-6	
25.00000	41.06250	89.00000	-1.8559	88.600	-0.0015708	-0.72216	16.881E-6	
25.00000	42.25000	89.00000	-1.7885	88.600	-0.0016271	-0.70926	16.574E-6	
25.00000	43.43750	89.00000	-1.7228	88.600	-0.0016827	-0.69738	16.290E-6	
25.00000	44.62500	89.00000	-1.6593	88.600	-0.0017366	-0.68656	16.032E-6	
25.00000	45.81250	89.00000	-1.5981	88.600	-0.0017880	-0.67678	15.798E-6	
25.00000	47.00000	89.00000	-1.5396	88.600	-0.0018359	-0.66794	15.587E-6	
25.00000	48.18750	89.00000	-1.4838	88.600	-0.0018795	-0.65988	15.394E-6	
25.00000	49.37500	89.00000	-1.4305	88.600	-0.0019181	-0.65243	15.216E-6	
25.00000	50.56250	89.00000	-1.3798	88.600	-0.0019512	-0.64538	15.048E-6	
25.00000	51.75000	89.00000	-1.3315	88.600	-0.0019782	-0.63853	14.885E-6	
25.00000	52.93750	89.00000	-1.2852	88.600	-0.0019987	-0.63168	14.722E-6	
25.00000	54.12500	89.00000	-1.2409	88.600	-0.0020124	-0.62463	14.552E-6	
25.00000	55.31250	89.00000	-1.1982	88.600	-0.0020190	-0.61722	14.380E-6	
25.00000	56.50000	89.00000	-1.1569	88.600	-0.0020181	-0.60929	14.194E-6	
25.00000	57.68750	89.00000	-1.1168	88.600	-0.0020097	-0.60070	13.992E-6	
25.00000	58.87500	89.00000	-1.0776	88.600	-0.0019933	-0.59135	13.773E-6	
25.00000	60.06250	89.00000	-1.0392	88.600	-0.0019680	-0.58112	13.544E-6	
25.00000	61.25000	89.00000	-1.0013	88.600	-0.0019366	-0.56997	13.274E-6	
25.00000	62.43750	89.00000	-0.96393	88.600	-0.0018961	-0.55783	12.992E-6	
25.00000	63.62500	89.00000	-0.92685	88.600	-0.0018476	-0.54471	12.686E-6	
25.00000	64.81250	89.00000	-0.89000	88.600	-0.0017913	-0.53059	12.358E-6	
25.00000	66.00000	89.00000	-0.85333	88.600	-0.0017278	-0.51553	12.008E-6	
25.00000	67.18750	89.00000	-0.81682	88.600	-0.0016576	-0.49957	11.638E-6	
25.00000	68.37500	89.00000	-0.78047	88.600	-0.0015814	-0.48281	11.249E-6	
25.00000	69.56250	89.00000	-0.74431	88.600	-0.0015004	-0.46536	10.844E-6	
25.00000	70.75000	89.00000	-0.70840	88.600	-0.0014154	-0.44734	10.426E-6	
25.00000	71.93750	89.00000	-0.67280	88.600	-0.0013279	-0.42880	9.994E-6	
25.00000	73.12500	89.00000	-0.63761	88.600	-0.0012390	-0.41018	9.5639E-6	
25.00000	74.31250	89.00000	-0.60291	88.600	-0.0011501	-0.39135	9.1270E-6	
25.00000	75.50000	89.00000	-0.56880	88.600	-0.0010623	-0.37254	8.6907E-6	
25.00000	76.68750	89.00000	-0.53538	88.600	-976.67E-6	-0.35391	8.2564E-6	
25.00000	77.87500	89.00000	-0.50269	88.600	-894.22E-6	-0.33559	7.8313E-6	
25.00000	79.06250	89.00000	-0.47100	88.600	-815.66E-6	-0.31769	7.4175E-6	
25.00000	80.25000	89.00000	-0.44020	88.600	-741.54E-6	-0.30031	7.0137E-6	
25.00000	81.43750	89.00000	-0.41041	88.600	-672.24E-6	-0.28353	6.6237E-6	
25.00000	82.62500	89.00000	-0.38171	88.600	-607.95E-6	-0.26740	6.2489E-6	
25.00000	83.81250	89.00000	-0.35411	88.600	-548.73E-6	-0.25199	5.8904E-6	
25.00000	85.00000	89.00000	-0.32767	88.600	-494.50E-6	-0.23730	5.5487E-6	
26.25000	-10.00000	89.00000	-0.99233	88.600	-154.58E-6	-0.27897	6.5530E-6	
26.25000	-8.81250	89.00000	-1.0876	88.600	-198.89E-6	-0.31508	7.3997E-6	
26.25000	-7.62500	89.00000	-1.1903	88.600	-259.38E-6	-0.35722	8.3868E-6	
26.25000	-6.43750	89.00000	-1.3002	88.600	-341.88E-6	-0.40611	9.5315E-6	
26.25000	-5.25000	89.00000	-1.4165	88.600	-452.62E-6	-0.46212	10.841E-6	
26.25000	-4.06250	89.00000	-1.5376	88.600	-595.40E-6	-0.52467	12.303E-6	
26.25000	-2.87500	89.00000	-1.6609	88.600	-765.70E-6	-0.59159	13.866E-6	
26.25000	-1.68750	89.00000	-1.7872	88.600	-944.39E-6	-0.65869	15.432E-6	
26.25000	-0.50000	89.00000	-1.8984	88.600	-1130.09E-6	-0.72031	16.871E-6	
26.25000	0.68750	89.00000	-2.0040	88.600	-1322.02E-6	-0.77116	18.060E-6	
26.25000	1.87500	89.00000	-2.0964	88.600	-1520.21E-6	-0.80818	18.928E-6	
26.25000	3.06250	89.00000	-2.1741	88.600	-1724.26E-6	-0.83101	19.467E-6	
26.25000	4.25000	89.00000	-2.2371	88.600	-1934.07E-6	-0.84022	19.711E-6	
26.25000	5.43750	89.00000	-2.2863	88.600	-2149.65E-6	-0.84127	19.717E-6	
26.25000	6.62500	89.00000	-2.3233	88.600	-2371.00E-6	-0.83381	19.548E-6	
26.25000	7.81250	89.00000	-2.3499	88.600	-2608.13E-6	-0.82138	19.261E-6	
26.25000	9.00000	89.00000	-2.3681	88.600	-2861.03E-6	-0.80623	18.911E-6	
26.25000	10.18750	89.00000	-2.3777	88.600	-3129.70E-6	-0.79001	18.515E-6	
26.25000	11.37500	89.00000	-2.3866	88.600	-3415.15E-6	-0.77513	18.188E-6	
26.25000	12.56250	89.00000	-2.3899	88.600	-3718.38E-6	-0.76171	17.876E-6	
26.25000	13.75000	89.00000	-2.3907	88.600	-4040.41E-6	-0.75057	17.616E-6	
26.25000	14.93750	89.00000	-2.3895	88.600	-4382.24E-6	-0.74185	17.413E-6	
26.25000	16.12500	89.00000	-2.3866	88.600	-4744.87E-6	-0.73519	17.261E-6	
26.25000	17.31250	89.00000	-2.3820	88.600	-5128.30E-6	-0.73086	17.155E-6	
26.25000	18.50000	89.00000	-2.3757	88.600	-5532.53E-6	-0.72789	17.085E-6	
26.25000	19.68750	89.00000	-2.3674	88.600	-5957.56E-6	-0.72608	17.041E-6	
26.25000	20.87500	89.00000	-2.3569	88.600	-6403.30E-6	-0.72509	17.017E-6	
26.25000	22.06250	89.00000	-2.3443	88.600	-6879.73E-6	-0.72439	17.003E-6	
26.25000	23.25000	89.00000	-2.3278	88.600	-7386.86E-6	-0.72420	16.993E-6	
26.25000	24.43750	89.00000	-2.3087	88.600	-7924.69E-6	-0.72375	16.980E-6	
26.25000	25.62500	89.00000	-2.2862	88.600	-8493.22E-6	-0.72294	16.959E-6	
26.25000	26.81250	89.00000	-2.2600	88.600	-9092.45E-6	-0.72155	16.925E-6	
26.25000	28.00000	89.00000	-2.2313	88.600	-9722.38E-6	-0.71938	16.878E-6	
26.25000	29.18750	89.00000	-2.1960	88.600	-10382.92E-6	-0.71623	16.794E-6	
26.25000	30.37500	89.00000	-2.1579	88.600	-11074.16E-6	-0.71197	16.691E-6	
26.25000	31.56250	89.00000	-2.1159	88.600	-11796.10E-6	-0.70652	16.560E-6	
26.25000	32.75000	89.00000	-2.0700	88.600	-12548.74E-6	-0.69986	16.401E-6	
26.25000	33.93750	89.00000	-2.0207	88.600	-13332.07E-6	-0.69207	16.214E-6	
26.25000	35.12500	89.00000	-1.9683	88.600	-14146.10E-6	-0.68330	16.005E-6	
26.25000	36.31250	89.00000	-1.9134	88.600	-15000.83E-6	-0.67379	15.778E-6	
26.25000	37.50000	89.00000	-1.8566	88.600	-15896.26E-6	-0.66379	15.540E-6	
26.25000	38.68750	89.00000	-1.7986	88.600	-16832.39E-6	-0.65361	15.297E-6	
26.25000	39.87500	89.00000	-1.7400	88.600	-17809.22E-6	-0.64349	15.055E-6	
26.25000	41.06250	89.00000	-1.6815	88.600	-18826.75E-6	-0.63368	14.821E-6	
26.25000	42.25000	89.00000	-1.6236	88.600	-19885.08E-6	-0.62432	14.598E-6	
26.25000	43.43750	89.00000	-1.5668	88.600	-20984.21E-6	-0.61552	14.387E-6	
26.25000	44.62500	89.00000	-1.5115	88.600	-22124.14E-6	-0.60733	14.192E-6	
26.25000	45.81250	89.00000	-1.4579	88.600	-23304.97E-6	-0.59975	14.010E-6	
26.25000	47.00000	89.00000	-1.4062	88.600	-24526.70E-6	-0.59270	13.842E-6	
26.25000	48.18750	89.00000	-1.3565	88.600	-25789.33E-6	-0.58611	13.684E-6	
26.25000	49.37500	89.00000	-1.3089	88.600	-27092.96E-6	-0.57986	13.535E-6	
26.25000	50.56250	89.00000	-1.2631	88.600	-28437.59E-6	-0.57390	13.391E-6	
26.25000	51.75000	89.00000	-1.2193	88.600	-29823.22E-6	-0.56790	13.248E-6	
26.25000	52.93750	89.00000	-1.1771	88.600	-31249.85E-6	-0.56172	13.104E-6	
26.25000	54.12500	89.00000	-1.1365	88.600	-32717.48E-6	-0.55543	12.955E-6	
26.25000	55.31250	89.00000	-1.0973	88.600	-34226.11E-6	-0.54878	12.798E-6	
26.25000	56.50000	89.00000	-1.0592	88.600	-35775.74E-6	-0.54167	12.631E-6	
26.25000	57.68750	89.00000	-1.0229	88.600	-37366.37E-6	-0.53400	12.455E-6	
26.25000	58.87500	89.00000	-0.98859	88.600	-38998.00E-6	-0.52569	12.256E-6	
26.25000	60.06250	89.00000	-0.95045	88.600	-40670.63E-6	-0.51665	12.045E-6	
26.25000	61.25000	89.00000	-0.91550	88.600	-42384.26E-6	-0.50685	11.816E-6	
26.25000	62.43750	89.00000	-0.88089	88.600	-44138.89E-6	-0.49625	11.569E-6	
26.25000	63.62500	89.00000	-0.84663	88.600	-45934.52E-6	-0.48494	11.303E-6	
26.25000	64.81250	89.00000	-0.81296	88.600	-47771.15E-6	-0.47263	11.019E-6	
26.25000	66.00000	89.00000	-0.77932	88.600	-49648.78E-6	-0.45965	10.717E-6	
26.25000	67.18750	89.00000	-0.74590	88.600	-51567.41E-6	-0.44596	10.399E-6	
26.25000	68.37500	89.00000	-0.71270	88.600	-53527.04E-6	-0.43161	10.065E-6	
26.25000	69.56250	89.00000	-0.67973	88.600	-55527.67E-6	-0.41670	9.718E-6	
26.25000	70.75000	89.00000	-0.64704	88.6				



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
27.50000	11.37500	89.00000	-2.1158	88.600	-504.97E-6	-0.64656	15.178E-6	
27.50000	12.56250	89.00000	-2.1233	88.600	-483.13E-6	-0.64000	15.025E-6	
27.50000	13.75000	89.00000	-2.1277	88.600	-467.94E-6	-0.63435	14.893E-6	
27.50000	14.93750	89.00000	-2.1297	88.600	-459.15E-6	-0.62982	14.787E-6	
27.50000	16.12500	89.00000	-2.1295	88.600	-456.19E-6	-0.62645	14.708E-6	
27.50000	17.31250	89.00000	-2.1271	88.600	-458.36E-6	-0.62415	14.653E-6	
27.50000	18.50000	89.00000	-2.1228	88.600	-464.98E-6	-0.62273	14.620E-6	
27.50000	19.68750	89.00000	-2.1163	88.600	-475.45E-6	-0.62199	14.602E-6	
27.50000	20.87500	89.00000	-2.1075	88.600	-489.30E-6	-0.62173	14.595E-6	
27.50000	22.06250	89.00000	-2.0962	88.600	-506.19E-6	-0.62174	14.594E-6	
27.50000	23.25000	89.00000	-2.0822	88.600	-525.89E-6	-0.62182	14.592E-6	
27.50000	24.43750	89.00000	-2.0655	88.600	-548.01E-6	-0.62178	14.592E-6	
27.50000	25.62500	89.00000	-2.0456	88.600	-572.56E-6	-0.62146	14.582E-6	
27.50000	26.81250	89.00000	-2.0226	88.600	-599.30E-6	-0.62069	14.562E-6	
27.50000	28.00000	89.00000	-1.9964	88.600	-628.05E-6	-0.61933	14.528E-6	
27.50000	29.18750	89.00000	-1.9667	88.600	-658.62E-6	-0.61727	14.472E-6	
27.50000	30.37500	89.00000	-1.9337	88.600	-690.82E-6	-0.61442	14.408E-6	
27.50000	31.56250	89.00000	-1.8974	88.600	-724.43E-6	-0.61074	14.319E-6	
27.50000	32.75000	89.00000	-1.8580	88.600	-759.25E-6	-0.60621	14.210E-6	
27.50000	33.93750	89.00000	-1.8157	88.600	-795.12E-6	-0.60089	14.082E-6	
27.50000	35.12500	89.00000	-1.7709	88.600	-831.88E-6	-0.59487	13.938E-6	
27.50000	36.31250	89.00000	-1.7241	88.600	-869.36E-6	-0.58830	13.781E-6	
27.50000	37.50000	89.00000	-1.6756	88.600	-907.42E-6	-0.58135	13.615E-6	
27.50000	38.68750	89.00000	-1.6259	88.600	-945.82E-6	-0.57418	13.443E-6	
27.50000	39.87500	89.00000	-1.5757	88.600	-984.31E-6	-0.56696	13.271E-6	
27.50000	41.06250	89.00000	-1.5253	88.600	-1022.83E-6	-0.55985	13.101E-6	
27.50000	42.25000	89.00000	-1.4752	88.600	-1061.60E-6	-0.55295	12.935E-6	
27.50000	43.43750	89.00000	-1.4258	88.600	-1100.66E-6	-0.54634	12.778E-6	
27.50000	44.62500	89.00000	-1.3774	88.600	-1140.01E-6	-0.54005	12.627E-6	
27.50000	45.81250	89.00000	-1.3300	88.600	-1179.64E-6	-0.53408	12.484E-6	
27.50000	47.00000	89.00000	-1.2845	88.600	-1219.54E-6	-0.52844	12.349E-6	
27.50000	48.18750	89.00000	-1.2402	88.600	-1259.70E-6	-0.52329	12.219E-6	
27.50000	49.37500	89.00000	-1.1975	88.600	-1300.12E-6	-0.51868	12.093E-6	
27.50000	50.56250	89.00000	-1.1562	88.600	-1340.80E-6	-0.51466	11.968E-6	
27.50000	51.75000	89.00000	-1.1165	88.600	-1381.74E-6	-0.51120	11.843E-6	
27.50000	52.93750	89.00000	-1.0781	88.600	-1422.94E-6	-0.50821	11.718E-6	
27.50000	54.12500	89.00000	-1.0409	88.600	-1464.39E-6	-0.49619	11.583E-6	
27.50000	55.31250	89.00000	-1.0049	88.600	-1506.00E-6	-0.49024	11.443E-6	
27.50000	56.50000	89.00000	-0.96986	88.600	-1547.77E-6	-0.48388	11.293E-6	
27.50000	57.68750	89.00000	-0.93571	88.600	-1589.70E-6	-0.47703	11.132E-6	
27.50000	58.87500	89.00000	-0.90231	88.600	-1631.79E-6	-0.46963	10.959E-6	
27.50000	60.06250	89.00000	-0.86953	88.600	-1674.04E-6	-0.46163	10.772E-6	
27.50000	61.25000	89.00000	-0.83728	88.600	-1716.45E-6	-0.45299	10.570E-6	
27.50000	62.43750	89.00000	-0.80546	88.600	-1759.02E-6	-0.44370	10.353E-6	
27.50000	63.62500	89.00000	-0.77400	88.600	-1801.75E-6	-0.43374	10.121E-6	
27.50000	64.81250	89.00000	-0.74285	88.600	-1844.64E-6	-0.42313	9.873E-6	
27.50000	66.00000	89.00000	-0.71197	88.600	-1887.69E-6	-0.41189	9.6115E-6	
27.50000	67.18750	89.00000	-0.68134	88.600	-1930.90E-6	-0.40006	9.3362E-6	
27.50000	68.37500	89.00000	-0.65096	88.600	-1974.27E-6	-0.38770	9.0486E-6	
27.50000	69.56250	89.00000	-0.62084	88.600	-2017.80E-6	-0.37487	8.7502E-6	
27.50000	70.75000	89.00000	-0.59103	88.600	-2061.49E-6	-0.36166	8.4430E-6	
27.50000	71.93750	89.00000	-0.56155	88.600	-2105.34E-6	-0.34815	8.1288E-6	
27.50000	73.12500	89.00000	-0.53245	88.600	-2149.35E-6	-0.33444	7.8098E-6	
27.50000	74.31250	89.00000	-0.50380	88.600	-2193.52E-6	-0.32061	7.4882E-6	
27.50000	75.50000	89.00000	-0.47566	88.600	-2237.85E-6	-0.30676	7.1662E-6	
27.50000	76.68750	89.00000	-0.44809	88.600	-2282.34E-6	-0.29299	6.8457E-6	
27.50000	77.87500	89.00000	-0.42114	88.600	-2326.99E-6	-0.27936	6.5288E-6	
27.50000	79.06250	89.00000	-0.39489	88.600	-2371.80E-6	-0.26598	6.2172E-6	
27.50000	80.25000	89.00000	-0.36937	88.600	-2416.77E-6	-0.25289	5.9125E-6	
27.50000	81.43750	89.00000	-0.34455	88.600	-2461.90E-6	-0.24015	5.6161E-6	
27.50000	82.62500	89.00000	-0.32075	88.600	-2507.19E-6	-0.22783	5.3290E-6	
27.50000	83.81250	89.00000	-0.29771	88.600	-2552.74E-6	-0.21594	5.0521E-6	
27.50000	85.00000	89.00000	-0.27556	88.600	-2598.45E-6	-0.20452	4.7860E-6	
28.75000	-10.00000	89.00000	-0.83521	88.600	-100.77E-6	-0.22496	5.2861E-6	
28.75000	-8.81250	89.00000	-0.90708	88.600	-121.93E-6	-0.24817	5.8306E-6	
28.75000	-7.62500	89.00000	-0.98281	88.600	-144.04E-6	-0.27389	6.4339E-6	
28.75000	-6.43750	89.00000	-1.0619	88.600	-179.68E-6	-0.30208	7.0950E-6	
28.75000	-5.25000	89.00000	-1.1436	88.600	-217.07E-6	-0.33246	7.8074E-6	
28.75000	-4.06250	89.00000	-1.2267	88.600	-259.48E-6	-0.36446	8.5572E-6	
28.75000	-2.87500	89.00000	-1.3099	88.600	-304.86E-6	-0.39710	9.3221E-6	
28.75000	-1.68750	89.00000	-1.3934	88.600	-349.75E-6	-0.42910	10.072E-6	
28.75000	-0.50000	89.00000	-1.4694	88.600	-399.93E-6	-0.45901	10.773E-6	
28.75000	0.68750	89.00000	-1.5423	88.600	-421.58E-6	-0.48549	11.393E-6	
28.75000	1.87500	89.00000	-1.6086	88.600	-442.45E-6	-0.50758	11.912E-6	
28.75000	3.06250	89.00000	-1.6675	88.600	-452.28E-6	-0.52483	12.317E-6	
28.75000	4.25000	89.00000	-1.7186	88.600	-452.41E-6	-0.53730	12.610E-6	
28.75000	5.43750	89.00000	-1.7619	88.600	-445.07E-6	-0.54543	12.802E-6	
28.75000	6.62500	89.00000	-1.7978	88.600	-432.73E-6	-0.54992	12.909E-6	
28.75000	7.81250	89.00000	-1.8270	88.600	-417.74E-6	-0.55155	12.948E-6	
28.75000	9.00000	89.00000	-1.8501	88.600	-402.14E-6	-0.55114	12.940E-6	
28.75000	10.18750	89.00000	-1.8681	88.600	-387.56E-6	-0.54946	12.901E-6	
28.75000	11.37500	89.00000	-1.8817	88.600	-375.22E-6	-0.54714	12.847E-6	
28.75000	12.56250	89.00000	-1.8916	88.600	-365.94E-6	-0.54469	12.790E-6	
28.75000	13.75000	89.00000	-1.8985	88.600	-360.13E-6	-0.54246	12.738E-6	
28.75000	14.93750	89.00000	-1.9026	88.600	-357.87E-6	-0.54067	12.696E-6	
28.75000	16.12500	89.00000	-1.9042	88.600	-359.07E-6	-0.53941	12.667E-6	
28.75000	17.31250	89.00000	-1.9037	88.600	-363.48E-6	-0.53867	12.649E-6	
28.75000	18.50000	89.00000	-1.9009	88.600	-370.84E-6	-0.53839	12.642E-6	
28.75000	19.68750	89.00000	-1.8959	88.600	-380.89E-6	-0.53848	12.643E-6	
28.75000	20.87500	89.00000	-1.8887	88.600	-393.30E-6	-0.53961	12.650E-6	
28.75000	22.06250	89.00000	-1.8791	88.600	-408.14E-6	-0.53926	12.660E-6	
28.75000	23.25000	89.00000	-1.8670	88.600	-425.00E-6	-0.53970	12.669E-6	
28.75000	24.43750	89.00000	-1.8524	88.600	-443.83E-6	-0.54002	12.675E-6	
28.75000	25.62500	89.00000	-1.8350	88.600	-464.52E-6	-0.54008	12.675E-6	
28.75000	26.81250	89.00000	-1.8148	88.600	-486.94E-6	-0.53980	12.667E-6	
28.75000	28.00000	89.00000	-1.7918	88.600	-510.98E-6	-0.53906	12.648E-6	
28.75000	29.18750	89.00000	-1.7660	88.600	-536.51E-6	-0.53780	12.616E-6	
28.75000	30.37500	89.00000	-1.7373	88.600	-563.37E-6	-0.53596	12.571E-6	
28.75000	31.56250	89.00000	-1.7058	88.600	-591.42E-6	-0.53351	12.511E-6	
28.75000	32.75000	89.00000	-1.6718	88.600	-620.00E-6	-0.53045	12.419E-6	
28.75000	33.93750	89.00000	-1.6353	88.600	-650.46E-6	-0.52681	12.350E-6	
28.75000	35.12500	89.00000	-1.5968	88.600	-681.13E-6	-0.52266	12.250E-6	
28.75000	36.31250	89.00000	-1.5565	88.600	-712.35E-6	-0.51807	12.140E-6	
28.75000	37.50000	89.00000	-1.5147	88.600	-743.93E-6	-0.51317	12.022E-6	
28.75000	38.68750	89.00000	-1.4728	88.600	-775.62E-6	-0.50805	11.899E-6	
28.75000	39.87500	89.00000	-1.4286	88.600	-807.29E-6	-0.50283	11.774E-6	
28.75000	41.06250	89.00000	-1.3849	88.600	-838.54E-6	-0.49760	11.649E-6	
28.75000	42.25000	89.00000	-1.3414	88.600	-869.09E-6	-0.49244	11.525E-6	
28.75000	43.43750	89.00000	-1.2982	88.600	-898.61E-6	-0.48739	11.405E-6	
28.75000	44.62500	89.00000	-1.2557	88.600	-926.77E-6	-0.48249	11.287E-6	
28.75000	45.81250	89.00000	-1.2140	88.600	-953.21E-6	-0.47774	11.174E-6	
28.75000	47.00000							



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Kidderpore
Demolition Unload (Undrained)
Output

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
28.75000	82.62500	89.00000	-0.29319	88.600	-387.21E-6	-0.21088	4.9345E-6	
28.75000	83.81250	89.00000	-0.27210	88.600	-355.26E-6	-0.20039	4.6900E-6	
28.75000	85.00000	89.00000	-0.25180	88.600	-325.37E-6	-0.19028	4.4541E-6	
30.00000	-10.00000	89.00000	-0.76450	88.600	-82.574E-6	-0.20297	4.7700E-6	
30.00000	-8.81250	89.00000	-0.82717	88.600	-97.590E-6	-0.22183	5.2127E-6	
30.00000	-7.62500	89.00000	-0.89265	88.600	-115.40E-6	-0.24235	5.6942E-6	
30.00000	-6.43750	89.00000	-0.96047	88.600	-136.17E-6	-0.26442	6.2119E-6	
30.00000	-5.25000	89.00000	-1.0299	88.600	-159.76E-6	-0.28776	6.7597E-6	
30.00000	-4.06250	89.00000	-1.1002	88.600	-185.58E-6	-0.31196	7.3271E-6	
30.00000	-2.87500	89.00000	-1.1702	88.600	-212.52E-6	-0.33638	7.8997E-6	
30.00000	-1.68750	89.00000	-1.2387	88.600	-236.93E-6	-0.36024	8.4833E-6	
30.00000	-0.50000	89.00000	-1.3045	88.600	-262.93E-6	-0.38271	8.9864E-6	
30.00000	0.68750	89.00000	-1.3663	88.600	-282.85E-6	-0.40303	9.4631E-6	
30.00000	1.87500	89.00000	-1.4233	88.600	-297.59E-6	-0.42062	9.8759E-6	
30.00000	3.06250	89.00000	-1.4747	88.600	-306.83E-6	-0.43516	10.217E-6	
30.00000	4.25000	89.00000	-1.5203	88.600	-311.00E-6	-0.44660	10.486E-6	
30.00000	5.43750	89.00000	-1.5597	88.600	-310.99E-6	-0.45514	10.687E-6	
30.00000	6.62500	89.00000	-1.5934	88.600	-307.95E-6	-0.46112	10.828E-6	
30.00000	7.81250	89.00000	-1.6215	88.600	-303.09E-6	-0.46499	10.920E-6	
30.00000	9.00000	89.00000	-1.6446	88.600	-297.52E-6	-0.46725	10.973E-6	
30.00000	10.18750	89.00000	-1.6633	88.600	-292.20E-6	-0.46836	11.000E-6	
30.00000	11.37500	89.00000	-1.6780	88.600	-287.89E-6	-0.46875	11.009E-6	
30.00000	12.56250	89.00000	-1.6892	88.600	-285.15E-6	-0.46876	11.010E-6	
30.00000	13.75000	89.00000	-1.6975	88.600	-284.33E-6	-0.46867	11.007E-6	
30.00000	14.93750	89.00000	-1.7030	88.600	-285.60E-6	-0.46864	11.007E-6	
30.00000	16.12500	89.00000	-1.7058	88.600	-289.01E-6	-0.46878	11.010E-6	
30.00000	17.31250	89.00000	-1.7068	88.600	-294.51E-6	-0.46913	11.018E-6	
30.00000	18.50000	89.00000	-1.7053	88.600	-302.02E-6	-0.46967	11.030E-6	
30.00000	19.68750	89.00000	-1.7017	88.600	-311.43E-6	-0.47036	11.045E-6	
30.00000	20.87500	89.00000	-1.6958	88.600	-322.64E-6	-0.47115	11.063E-6	
30.00000	22.06250	89.00000	-1.6877	88.600	-335.57E-6	-0.47195	11.081E-6	
30.00000	23.25000	89.00000	-1.6773	88.600	-350.06E-6	-0.47269	11.097E-6	
30.00000	24.43750	89.00000	-1.6645	88.600	-366.11E-6	-0.47329	11.110E-6	
30.00000	25.62500	89.00000	-1.6494	88.600	-383.62E-6	-0.47367	11.118E-6	
30.00000	26.81250	89.00000	-1.6317	88.600	-402.49E-6	-0.47375	11.119E-6	
30.00000	28.00000	89.00000	-1.6116	88.600	-422.60E-6	-0.47349	11.111E-6	
30.00000	29.18750	89.00000	-1.5890	88.600	-444.00E-6	-0.47281	11.094E-6	
30.00000	30.37500	89.00000	-1.5640	88.600	-466.42E-6	-0.47170	11.066E-6	
30.00000	31.56250	89.00000	-1.5367	88.600	-489.81E-6	-0.47012	11.027E-6	
30.00000	32.75000	89.00000	-1.5071	88.600	-514.03E-6	-0.46809	10.978E-6	
30.00000	33.93750	89.00000	-1.4756	88.600	-538.94E-6	-0.46562	10.918E-6	
30.00000	35.12500	89.00000	-1.4422	88.600	-564.41E-6	-0.46275	10.848E-6	
30.00000	36.31250	89.00000	-1.4073	88.600	-590.28E-6	-0.45953	10.771E-6	
30.00000	37.50000	89.00000	-1.3712	88.600	-616.36E-6	-0.45605	10.687E-6	
30.00000	38.68750	89.00000	-1.3341	88.600	-642.49E-6	-0.45234	10.598E-6	
30.00000	39.87500	89.00000	-1.2964	88.600	-668.43E-6	-0.44853	10.506E-6	
30.00000	41.06250	89.00000	-1.2584	88.600	-693.96E-6	-0.44463	10.413E-6	
30.00000	42.25000	89.00000	-1.2203	88.600	-718.84E-6	-0.44071	10.319E-6	
30.00000	43.43750	89.00000	-1.1823	88.600	-742.81E-6	-0.43681	10.225E-6	
30.00000	44.62500	89.00000	-1.1449	88.600	-765.60E-6	-0.43294	10.133E-6	
30.00000	45.81250	89.00000	-1.1079	88.600	-786.96E-6	-0.42931	10.041E-6	
30.00000	47.00000	89.00000	-1.0718	88.600	-806.64E-6	-0.42530	9.9501E-6	
30.00000	48.18750	89.00000	-1.0364	88.600	-824.40E-6	-0.42149	9.8592E-6	
30.00000	49.37500	89.00000	-1.0019	88.600	-840.03E-6	-0.41764	9.7675E-6	
30.00000	50.56250	89.00000	-0.96826	88.600	-853.34E-6	-0.41371	9.6742E-6	
30.00000	51.75000	89.00000	-0.93554	88.600	-864.15E-6	-0.40965	9.5779E-6	
30.00000	52.93750	89.00000	-0.90370	88.600	-872.30E-6	-0.40541	9.4775E-6	
30.00000	54.12500	89.00000	-0.87267	88.600	-877.69E-6	-0.40093	9.3718E-6	
30.00000	55.31250	89.00000	-0.84242	88.600	-880.19E-6	-0.39617	9.2595E-6	
30.00000	56.50000	89.00000	-0.81286	88.600	-879.72E-6	-0.39108	9.1397E-6	
30.00000	57.68750	89.00000	-0.78394	88.600	-876.24E-6	-0.38561	9.0114E-6	
30.00000	58.87500	89.00000	-0.75559	88.600	-869.69E-6	-0.37974	8.8737E-6	
30.00000	60.06250	89.00000	-0.72774	88.600	-860.08E-6	-0.37344	8.7261E-6	
30.00000	61.25000	89.00000	-0.70033	88.600	-847.44E-6	-0.36668	8.5680E-6	
30.00000	62.43750	89.00000	-0.67330	88.600	-831.83E-6	-0.35944	8.3994E-6	
30.00000	63.62500	89.00000	-0.64663	88.600	-813.34E-6	-0.35179	8.2201E-6	
30.00000	64.81250	89.00000	-0.62026	88.600	-792.12E-6	-0.34367	8.0303E-6	
30.00000	66.00000	89.00000	-0.59418	88.600	-768.35E-6	-0.33511	7.8306E-6	
30.00000	67.18750	89.00000	-0.56838	88.600	-742.26E-6	-0.32614	7.6216E-6	
30.00000	68.37500	89.00000	-0.54286	88.600	-714.11E-6	-0.31682	7.4041E-6	
30.00000	69.56250	89.00000	-0.51762	88.600	-684.21E-6	-0.30716	7.1791E-6	
30.00000	70.75000	89.00000	-0.49268	88.600	-652.89E-6	-0.29724	6.9478E-6	
30.00000	71.93750	89.00000	-0.46808	88.600	-620.49E-6	-0.28710	6.7114E-6	
30.00000	73.12500	89.00000	-0.44383	88.600	-587.39E-6	-0.27679	6.4713E-6	
30.00000	74.31250	89.00000	-0.41998	88.600	-553.94E-6	-0.26634	6.2290E-6	
30.00000	75.50000	89.00000	-0.39657	88.600	-520.49E-6	-0.25595	5.9857E-6	
30.00000	76.68750	89.00000	-0.37363	88.600	-487.37E-6	-0.24553	5.7429E-6	
30.00000	77.87500	89.00000	-0.35121	88.600	-454.88E-6	-0.23519	5.5018E-6	
30.00000	79.06250	89.00000	-0.32934	88.600	-423.27E-6	-0.22498	5.2637E-6	
30.00000	80.25000	89.00000	-0.30806	88.600	-392.76E-6	-0.21494	5.0296E-6	
30.00000	81.43750	89.00000	-0.28741	88.600	-363.53E-6	-0.20511	4.8005E-6	
30.00000	82.62500	89.00000	-0.26741	88.600	-335.72E-6	-0.19554	4.5773E-6	
30.00000	83.81250	89.00000	-0.24809	88.600	-309.42E-6	-0.18625	4.3605E-6	
30.00000	85.00000	89.00000	-0.22947	88.600	-284.68E-6	-0.17727	4.1509E-6	
Line 1	25.78000	-6.28000	90.15000	-1.3676	89.721	0.0	-0.0096104	0.0
	24.96000	-3.16000	90.15000	-1.8578	89.721	0.0	-0.011157	0.0
	24.14000	-0.04000	90.15000	-2.5022	89.721	0.0	-0.013059	0.0
	23.32000	3.08000	90.15000	-3.1560	89.721	0.0	-0.015424	0.0
	22.50000	6.20000	90.15000	-3.6490	89.721	-1.2953E-6	-0.018407	0.0
	21.68000	9.32000	90.15000	-3.9597	89.721	-1.8079E-6	-0.022221	0.0
	20.86000	12.44000	90.15000	-4.1763	89.721	-2.5877E-6	-0.027181	0.0
	20.04000	15.56000	90.15000	-4.4570	89.721	-3.8128E-6	-0.033751	0.0
	19.22000	18.68000	90.15000	-4.8391	89.721	-5.8087E-6	-0.042639	1.0029E-6
	18.40000	21.80000	90.15000	-5.3076	89.721	-9.1981E-6	-0.054946	1.2922E-6
Line 2	18.23809	24.79048	90.15000	-5.3438	89.721	-13.815E-6	-0.068860	1.6193E-6
	18.07619	27.78095	90.15000	-5.3259	89.721	-21.056E-6	-0.087050	2.0467E-6
	17.91429	30.77143	90.15000	-5.2088	89.721	-32.272E-6	-0.11058	2.5997E-6
	17.75238	33.76191	90.15000	-4.9088	89.721	-48.944E-6	-0.14023	3.2961E-6
	17.59048	36.75238	90.15000	-4.3696	89.721	-71.804E-6	-0.17577	4.1308E-6
	17.42857	39.74286	90.15000	-3.7918	89.721	-99.495E-6	-0.21536	5.0602E-6
	17.26667	42.73333	90.15000	-3.2834	89.721	-128.41E-6	-0.25562	6.0055E-6
	17.10476	45.72381	90.15000	-2.8863	89.721	-154.79E-6	-0.29301	6.8834E-6
	16.94286	48.71429	90.15000	-2.5995	89.721	-176.77E-6	-0.32509	7.6367E-6
	16.78095	51.70476	90.15000	-2.3883	89.721	-194.34E-6	-0.35069	8.2378E-6
	16.61905	54.69524	90.15000	-2.2254	89.721	-207.98E-6	-0.36922	8.6729E-6
	16.45714	57.68571	90.15000	-2.0864	89.721	-217.72E-6	-0.38000	8.9258E-6
	16.29524	60.67619	90.15000	-1.9537	89.721	-222.50E-6	-0.38178	8.9672E-6
	16.13333	63.66667	90.15000	-1.8144	89.721	-220.01E-6	-0.37280	8.7564E-6
	15.97143	66.65714	90.15000	-1.6598	89.721	-206.89E-6	-0.35139	8.2535E-6
	15.80952	69.64762	90.15000	-1.4871	89.721	-180.62E-6	-0.31729	7.4529E-6
	15.64762	72.63809	90.15000	-1.3007	89.721	-143.34E-6	-0.27342	6.4233E-6
	15.48571</							



SOUTHERN TESTING LABORATORIES

Kidderpore
Case 1A
Without Beneficial Strains

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked
	21-Nov-2016	

Utility Strain Calculation Options

Neglect beneficial contribution of axial strains : Yes

Displacement and Strain Results

Type/No.	Name	Dist.	Coordinates			Displacements			Horizontal displacement along Line	Horizontal displacement perpendicular to Line	Angle of Line to x Axis
			x	y	z	x	y	z			
Line 1	Line 1	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[°]	
		26.60000	-9.40000	90.15000	0.0	0.0	-1.0148	0.0	0.0	104.73 *	
		3.2260	-6.28000	90.15000	0.0	0.0	-1.3676	0.0	0.0	104.73 *	
		6.4519	-3.16000	90.15000	0.0	0.0	-1.8578	0.0	0.0	104.73 *	
		9.6779	-0.04000	90.15000	0.0	0.0	-2.5022	0.0	0.0	104.73 *	
		12.904	3.08000	90.15000	0.0	0.0	-3.1560	0.0	0.0	104.73 *	
		16.130	6.20000	90.15000	0.0	0.0	-3.6490	0.0	0.0	104.73 *	
		19.356	9.32000	90.15000	0.0	0.0	-3.9597	0.0	0.0	104.73 *	
		22.582	12.44000	90.15000	0.0	0.0	-4.1763	0.0	0.0	104.73 *	
		25.808	15.56000	90.15000	0.0	0.0	-4.4570	0.0	0.0	104.73 *	
		29.034	18.68000	90.15000	0.0	0.0	-4.8391	0.0	0.0	104.73 *	
		32.260	21.80000	90.15000	0.0	0.0	-5.3076	0.0	0.0	104.73 *	
Line 2	Line 2	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[°]	
		18.40000	21.80000	90.15000	0.0	0.0	-5.3076	0.0	0.0	93.099 *	
		2.9949	24.79048	90.15000	0.0	0.0	-5.3438	0.0	0.0	93.099 *	
		5.9897	27.78095	90.15000	0.0	0.0	-5.3259	0.0	0.0	93.099 *	
		8.9846	30.77143	90.15000	0.0	0.0	-5.2088	0.0	0.0	93.099 *	
		11.979	33.76190	90.15000	0.0	0.0	-4.9088	0.0	0.0	93.099 *	
		14.974	36.75238	90.15000	0.0	0.0	-4.3696	0.0	0.0	93.099 *	
		17.969	39.74286	90.15000	0.0	0.0	-3.7918	0.0	0.0	93.099 *	
		20.964	42.73333	90.15000	0.0	0.0	-3.2834	0.0	0.0	93.099 *	
		23.959	45.72381	90.15000	0.0	0.0	-2.8863	0.0	0.0	93.099 *	
		26.954	48.71429	90.15000	0.0	0.0	-2.5985	0.0	0.0	93.099 *	
		29.949	51.70476	90.15000	0.0	0.0	-2.3883	0.0	0.0	93.099 *	
		32.943	54.69524	90.15000	0.0	0.0	-2.2254	0.0	0.0	93.099 *	
		35.938	57.68571	90.15000	0.0	0.0	-2.0864	0.0	0.0	93.099 *	
		38.933	60.67619	90.15000	0.0	0.0	-1.9537	0.0	0.0	93.099 *	
		41.928	63.66667	90.15000	0.0	0.0	-1.8144	0.0	0.0	93.099 *	
		44.923	66.65714	90.15000	0.0	0.0	-1.6598	0.0	0.0	93.099 *	
		47.918	69.64762	90.15000	0.0	0.0	-1.4871	0.0	0.0	93.099 *	
		50.913	72.63810	90.15000	0.0	0.0	-1.3007	0.0	0.0	93.099 *	
		53.907	75.62857	90.15000	0.0	0.0	-1.1109	0.0	0.0	93.099 *	
		56.902	78.61905	90.15000	0.0	0.0	-0.92964	0.0	0.0	93.099 *	
		59.897	81.60952	90.15000	0.0	0.0	-0.76531	0.0	0.0	93.099 *	
		62.892	84.60000	90.15000	0.0	0.0	-0.62179	0.0	0.0	93.099 *	

* Result includes imported displacement(s).

Specific Utility Damage Results - Coordinates and Displacements

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates			Displacements			Displacements at (n-Lp)			Displacements at (n+Lp)		
	x	y	z	x	y	z	Horizontal displacement along utility	Horizontal displacement perpendicular to utility	x	y	z	Horizontal displacement along utility

Iteration: 1

6.45191	24.96000	-3.16000	90.15000	0.00000	0.00000	-1.85778	0.00000	0.00000	0.00000	-1.32038	0.00000	0.00000	0.00000	-2.58974	0.00000	0.00000
12.90383	23.32000	3.08000	90.15000	0.00000	0.00000	-3.15603	0.00000	0.00000	0.00000	-2.41587	0.00000	0.00000	0.00000	-3.69066	0.00000	0.00000
19.35574	21.68000	9.32000	90.15000	0.00000	0.00000	-3.95971	0.00000	0.00000	0.00000	-3.58302	0.00000	0.00000	0.00000	-4.21386	0.00000	0.00000
25.80766	20.04000	15.56000	90.15000	0.00000	0.00000	-4.45703	0.00000	0.00000	0.00000	-4.14725	0.00000	0.00000	0.00000	-4.90184	0.00000	0.00000

Iteration: 2

9.67787	24.14000	-0.04000	90.15000	0.00000	0.00000	-2.50217	0.00000	0.00000	0.00000	-1.79213	0.00000	0.00000	0.00000	-3.22206	0.00000	0.00000
16.12979	22.50000	6.20000	90.15000	0.00000	0.00000	-3.64905	0.00000	0.00000	0.00000	-3.06846	0.00000	0.00000	0.00000	-3.98871	0.00000	0.00000
22.58170	20.86000	12.44000	90.15000	0.00000	0.00000	-4.17625	0.00000	0.00000	0.00000	-3.91810	0.00000	0.00000	0.00000	-4.50820	0.00000	0.00000

Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point	Coordinates			Displacements			Displacements at (n-Lp)			Displacements at (n+Lp)		
	x	y	z	x	y	z	Horizontal displacement along utility	Horizontal displacement perpendicular to utility	x	y	z	Horizontal displacement along utility

Iteration: 1

5.98971	18.07619	27.78095	90.15000	0.00000	0.00000	-5.32588	0.00000	0.00000	0.00000	-5.33582	0.00000	0.00000	0.00000	-5.14240	0.00000	0.00000
11.97942	17.75238	33.76190	90.15000	0.00000	0.00000	-4.90883	0.00000	0.00000	0.00000	-5.23474	0.00000	0.00000	0.00000	-4.24166	0.00000	0.00000
17.96913	17.42857	39.74286	90.15000	0.00000	0.00000	-3.79178	0.00000	0.00000	0.00000	-4.48901	0.00000	0.00000	0.00000	-3.19543	0.00000	0.00000
23.95885	17.10476	45.72381	90.15000	0.00000	0.00000	-2.88627	0.00000	0.00000	0.00000	-3.39594	0.00000	0.00000	0.00000	-2.55139	0.00000	0.00000
29.94856	16.78095	51.70476	90.15000	0.00000	0.00000	-2.38833	0.00000	0.00000	0.00000	-2.66225	0.00000	0.00000	0.00000	-2.19458	0.00000	0.00000
35.93827	16.45714	57.68571	90.15000	0.00000	0.00000	-2.08636	0.00000	0.00000	0.00000	-2.26145	0.00000	0.00000	0.00000	-1.92289	0.00000	0.00000
41.92798	16.13333	63.66667	90.15000	0.00000	0.00000	-1.81442	0.00000	0.00000	0.00000	-1.98310	0.00000	0.00000	0.00000	-1.62158	0.00000	0.00000
47.91769	15.80952	69.64762	90.15000	0.00000	0.00000	-1.48713	0.00000	0.00000	0.00000	-1.69405	0.00000	0.00000	0.00000	-1.25870	0.00000	0.00000
53.90740	15.48571	75.62857	90.15000	0.00000	0.00000	-1.11095	0.00000	0.00000	0.00000	-1.34199	0.00000	0.00000	0.00000	-0.89325	0.00000	0.00000

Iteration: 2

8.98457	17.91429	30.77143	90.15000	0.00000	0.00000	-5.20882	0.00000	0.00000	0.00000	-5.32986	0.00000	0.00000	0.00000	-4.78943	0.00000	0.00000
14.97428	17.59048	36.75238	90.15000	0.00000	0.00000	-4.36961	0.00000	0.00000	0.00000	-4.97526	0.00000	0.00000	0.00000	-3.67920	0.00000	0.00000
20.96399	17.26667	42.73333	90.15000	0.00000	0.00000	-3.28336	0.00000	0.00000	0.00000	-3.91973	0.00000	0.00000	0.00000	-2.82256	0.00000	0.00000
26.95370	16.94286	48.71429	90.15000	0.00000	0.00000	-2.59853	0.00000	0.00000	0.00000	-2.97420	0.00000	0.00000	0.00000	-2.35224	0.00000	0.00000
32.94341	16.61905	54.69524	90.15000	0.00000	0.00000	-2.22537	0.00000	0.00000	0.00000	-2.43487	0.00000	0.00000	0.00000	-2.05699	0.00000	0.00000
38.93312	16.29524	60.67619	90.15000	0.00000	0.00000	-1.95374	0.00000	0.00000	0.00000	-2.11714	0.00000	0.00000	0.00000	-1.78019	0.00000	0.00000
44.92284	15.97143	66.65714	90.15000	0.00000	0.00000	-1.65981	0.00000	0.00000	0.00000	-1.84527	0.00000	0.00000	0.00000	-1.44585	0.00000	0.00000
50.91255	15.64762	72.63810	90.15000	0.00000	0.00000	-1.30072	0.00000	0.00000	0.00000	-1.52537	0.00000	0.00000	0.00000	-1.07080	0.00000	0.00000
56.90226	15.32381	78.61905	90.15000	0.00000	0.00000	-0.92964	0.00000	0.00000	0.00000	-1.15297	0.00000	0.00000	0.00000	-0.73353	0.00000	0.00000

Specific Utility Damage Results - Pullouts and Rotations

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates		Pullout Check
	Vertical	Horizontal	



SOUTHERN TESTING LABORATORIES

Kidderpore
Case 1A
Without Beneficial Strains

Job No.	Sheet No.	Rev.
J12093		
Drq. Ref.		
Made by	Date	Checked
	21-Nov-2016	

Rotation	x		y		z		Pullout																Threshold Limit
	Threshold Limit		Threshold Limit		Threshold Limit		Left Seg.				Right Seg.				Total								
	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored					
[Deg]	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]				
Iteration: 1																							
6.45191	24.96000	-3.16000	90.15000	0.00000	0.00000	0.01578	0.01578	0.00000	0.00000	0.01578	0.01578	0.00000	0.00000	0.03155	0.03155	0.03155	0.03155	-	OK				
0.00305	0.00305	-	OK	Sagging																			
12.90383	23.32000	3.08000	90.15000	0.00000	0.00000	0.01667	0.01667	0.00000	0.00000	0.01667	0.01667	0.00000	0.00000	0.03333	0.03333	0.03333	0.03333	-	OK				
0.00322	0.00322	-	OK	Hogging																			
19.35574	21.68000	9.32000	90.15000	0.00000	0.00000	0.00994	0.00994	0.00000	0.00000	0.00994	0.00994	0.00000	0.00000	0.01987	0.01987	0.01987	0.01987	-	OK				
0.00192	0.00192	-	OK	Hogging																			
25.80766	20.04000	15.56000	90.15000	0.00000	0.00000	0.01095	0.01095	0.00000	0.00000	0.01095	0.01095	0.00000	0.00000	0.02190	0.02190	0.02190	0.02190	-	OK				
0.00211	0.00211	-	OK	Sagging																			
Iteration: 2																							
9.67787	24.14000	-0.04000	90.15000	0.00000	0.00000	0.00080	0.00080	0.00000	0.00000	0.00080	0.00080	0.00000	0.00000	0.00160	0.00160	0.00160	0.00160	-	OK				
0.00015	0.00015	-	OK	Sagging																			
16.12979	22.50000	6.20000	90.15000	0.00000	0.00000	0.01954	0.01954	0.00000	0.00000	0.01954	0.01954	0.00000	0.00000	0.03907	0.03907	0.03907	0.03907	-	OK				
0.00377	0.00377	-	OK	Hogging																			
22.58170	20.86000	12.44000	90.15000	0.00000	0.00000	0.00598	0.00598	0.00000	0.00000	0.00598	0.00598	0.00000	0.00000	0.01197	0.01197	0.01197	0.01197	-	OK				
0.00116	0.00116	-	OK	Sagging																			

Note: Total pullout ignores the axial component where this is negative (i.e. compression).

Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point	Coordinates			Pullout Check															
	x	y	z	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored
0.00272	17.75238	33.76190	90.15000	0.00000	0.00000	0.02767	0.02767	0.00000	0.00000	0.02767	0.02767	0.00000	0.00000	0.05535	0.05535	0.05535	0.05535	-	OK
0.00535	0.00535	-	OK	Sagging															
17.96913	17.42857	39.74286	90.15000	0.00000	0.00000	0.00818	0.00818	0.00000	0.00000	0.00818	0.00818	0.00000	0.00000	0.01636	0.01636	0.01636	0.01636	-	OK
0.00158	0.00158	-	OK	Sagging															
23.95885	17.10476	45.72381	90.15000	0.00000	0.00000	0.01422	0.01422	0.00000	0.00000	0.01422	0.01422	0.00000	0.00000	0.02844	0.02844	0.02844	0.02844	-	OK
0.00275	0.00275	-	OK	Sagging															
29.94856	16.78095	51.70476	90.15000	0.00000	0.00000	0.00650	0.00650	0.00000	0.00000	0.00650	0.00650	0.00000	0.00000	0.01300	0.01300	0.01300	0.01300	-	OK
0.00126	0.00126	-	OK	Sagging															
35.98327	16.45714	57.68571	90.15000	0.00000	0.00000	0.00094	0.00094	0.00000	0.00000	0.00094	0.00094	0.00000	0.00000	0.00189	0.00189	0.00189	0.00189	-	OK
0.00018	0.00018	-	OK	Sagging															
41.92798	16.13333	63.66667	90.15000	0.00000	0.00000	0.00196	0.00196	0.00000	0.00000	0.00196	0.00196	0.00000	0.00000	0.00392	0.00392	0.00392	0.00392	-	OK
0.00038	0.00038	-	OK	Hogging															
47.91769	15.80952	69.64762	90.15000	0.00000	0.00000	0.00174	0.00174	0.00000	0.00000	0.00174	0.00174	0.00000	0.00000	0.00349	0.00349	0.00349	0.00349	-	OK
0.00034	0.00034	-	OK	Sagging															
53.90740	15.48571	75.62857	90.15000	0.00000	0.00000	0.00108	0.00108	0.00000	0.00000	0.00108	0.00108	0.00000	0.00000	0.00216	0.00216	0.00216	0.00216	-	OK
0.00021	0.00021	-	OK	Sagging															
Iteration: 2																			
8.98457	17.91429	30.77143	90.15000	0.00000	0.00000	0.02419	0.02419	0.00000	0.00000	0.02419	0.02419	0.00000	0.00000	0.04839	0.04839	0.04839	0.04839	-	OK
0.00467	0.00467	-	OK	Hogging															
14.97428	17.59048	36.75238	90.15000	0.00000	0.00000	0.00687	0.00687	0.00000	0.00000	0.00687	0.00687	0.00000	0.00000	0.01375	0.01375	0.01375	0.01375	-	OK
0.00133	0.00133	-	OK	Hogging															
20.96399	17.26667	42.73333	90.15000	0.00000	0.00000	0.01424	0.01424	0.00000	0.00000	0.01424	0.01424	0.00000	0.00000	0.02847	0.02847	0.02847	0.02847	-	OK
0.00275	0.00275	-	OK	Sagging															
26.95370	16.94286	48.71429	90.15000	0.00000	0.00000	0.01049	0.01049	0.00000	0.00000	0.01049	0.01049	0.00000	0.00000	0.02098	0.02098	0.02098	0.02098	-	OK
0.00203	0.00203	-	OK	Sagging															
32.94341	16.61905	54.69524	90.15000	0.00000	0.00000	0.00334	0.00334	0.00000	0.00000	0.00334	0.00334	0.00000	0.00000	0.00667	0.00667	0.00667	0.00667	-	OK
0.00064	0.00064	-	OK	Sagging															
38.93312	16.29524	60.67619	90.15000	0.00000	0.00000	0.00082	0.00082	0.00000	0.00000	0.00082	0.00082	0.00000	0.00000	0.00165	0.00165	0.00165	0.00165	-	OK
0.00016	0.00016	-	OK	Hogging															
44.92284	15.97143	66.65714	90.15000	0.00000	0.00000	0.00231	0.00231	0.00000	0.00000	0.00231	0.00231	0.00000	0.00000	0.00462	0.00462	0.00462	0.00462	-	OK
0.00045	0.00045	-	OK	Hogging															
50.91255	15.64762	72.63810	90.15000	0.00000	0.00000	0.00043	0.00043	0.00000	0.00000	0.00043	0.00043	0.00000	0.00000	0.00085	0.00085	0.00085	0.00085	-	OK
0.00008	0.00008	-	OK	Hogging															
56.90226	15.32381	78.61905	90.15000	0.00000	0.00000	0.00221	0.00221	0.00000	0.00000	0.00221	0.00221	0.00000	0.00000	0.00442	0.00442	0.00442	0.00442	-	OK
0.00043	0.00043	-	OK	Sagging															

Note: Total pullout ignores the axial component where this is negative (i.e. compression).

Specific Utility Damage Results - Strains

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates			Pipe Strain Check																Radius of Curvature Check	Peak flexural tensile strain orientation angle (w.r.t global z-axis)
	x	y	z	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored				
6.45191	24.96000	-3.16000	90.15000	0.015461	0.0030922	4.3964	4.3964	-4.3964	-4.3964	4.41188	4.39951	OK	-4.39642	-4.39642	OK	6.74669E+4	-	-	180.00000		
9.67787	24.14000	-0.04000	90.15000	0.020245	0.0040490	0.26999	0.26999	-0.26999	-0.26999	0.29023	0.27404	OK	-0.26999	-0.26999	OK	1.0987E+6	-	-	180.00000		
12.90383	23.32000	3.08000	90.15000	0.015799	0.0031598	4.5846	4.5846	-4.5846	-4.5846	4.60039	4.58775	OK	-4.58459	-4.58459	OK	6.4700E+4	-	-	0.00000		
16.12979	22.50000	6.20000	90.15000	0.0077581	0.0015516	5.1977	5.1977	-5.1977	-5.1977	5.20544	5.19923	OK	-5.19768	-5.19768	OK	5.7069E+4	-	-	0.00000		
19.35574	21.68000	9.32000	90.15000	0.0033385	667.69E-6	2.6827	2.6827	-2.6827	-2.6827	2.68600	2.68333	OK	-2.68266	-2.68266	OK	1.1057E+5	-	-	0.00000		
22.58170	20.86000	12.44000	90.15000	0.0029707	594.15E-6	1.8309	1.8309	-1.8309	-1.8309	1.83391	1.83153	OK	-1.83094								



**SOUTHERN TESTING
LABORATORIES**

**Kidderpore
Case 1A
Without Beneficial Strains**

Job No.	Sheet No.	Rev.
J12093		
Drq. Ref.		
Made by	Date	Checked
	21-Nov-2016	

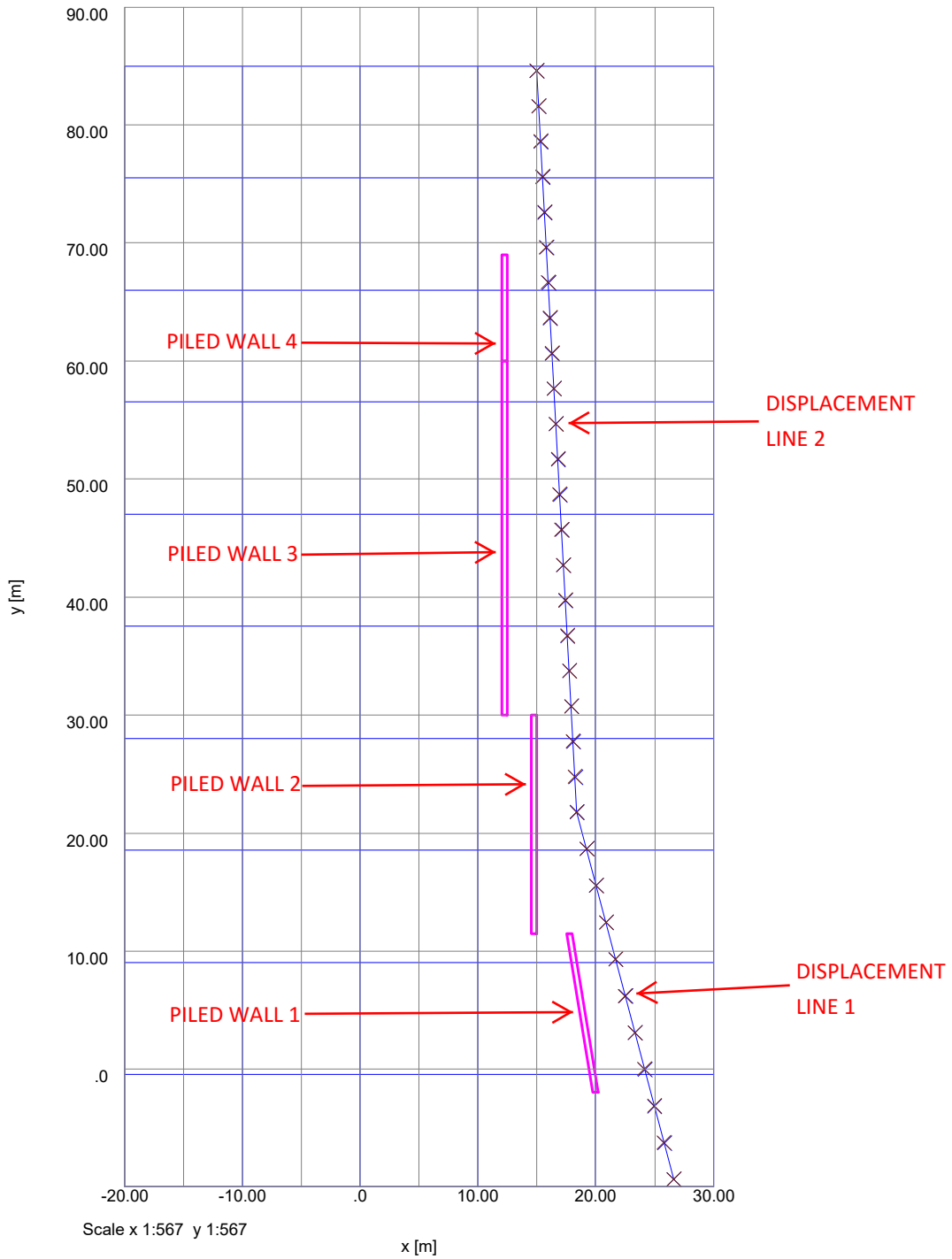
Distance from the utility's start	Coordinates	Pipe Strain Check										Radius of Curvature Check		Peak flexural tensile strain orientation angle (w.r.t)				
8.98457	17.91429 30.77143	90.15000	0.0024240	484.80E-6	6.0497	6.0497	-6.0497	-6.0497	6.05217	6.05023	OK	-6.04975	-6.04975	OK	4.9031E+4	-	-	0.00000
11.97942	17.75238 33.76190	90.15000	0.0098154	0.0019631	7.9119	7.9119	-7.9119	-7.9119	7.92177	7.91391	OK	-7.91195	-7.91195	OK	3.7491E+4	-	-	0.00000
14.97428	17.59048 36.75238	90.15000	0.017390	0.0034781	1.2766	1.2766	-1.2766	-1.2766	1.29400	1.28009	OK	-1.27661	-1.27661	OK	2.3235E+5	-	-	0.00000
17.96913	17.42857 39.74286	90.15000	0.016444	0.0032889	2.2955	2.2955	-2.2955	-2.2955	2.31193	2.29877	OK	-2.29549	-2.29549	OK	1.2922E+5	-	-	180.00000
20.96399	17.26667 42.73333	90.15000	0.011427	0.0022854	3.6820	3.6820	-3.6820	-3.6820	3.69340	3.68426	OK	-3.68198	-3.68198	OK	8.0561E+4	-	-	180.00000
23.95885	17.10476 45.72381	90.15000	0.0065361	0.0013072	3.6162	3.6162	-3.6162	-3.6162	3.62278	3.61755	OK	-3.61624	-3.61624	OK	8.2025E+4	-	-	180.00000
26.95370	16.94286 48.71429	90.15000	0.0034556	691.12E-6	2.5642	2.5642	-2.5642	-2.5642	2.56761	2.56485	OK	-2.56416	-2.56416	OK	1.1568E+5	-	-	180.00000
29.94856	16.78095 51.70476	90.15000	0.0019407	388.15E-6	1.5624	1.5624	-1.5624	-1.5624	1.56431	1.56275	OK	-1.56237	-1.56237	OK	1.8986E+5	-	-	180.00000
32.94341	16.61905 54.69524	90.15000	0.0012709	254.17E-6	0.79219	0.79219	-0.79219	-0.79219	0.79346	0.79245	OK	-0.79219	-0.79219	OK	3.7443E+5	-	-	180.00000
35.93827	16.45714 57.68571	90.15000	0.0010283	205.65E-6	0.21141	0.21141	-0.21141	-0.21141	0.21243	0.21161	OK	-0.21141	-0.21141	OK	1.4031E+6	-	-	180.00000
38.93312	16.29524 60.67619	90.15000	0.0010306	205.12E-6	0.22164	0.22164	-0.22164	-0.22164	0.22267	0.22184	OK	-0.22164	-0.22164	OK	1.3383E+6	-	-	0.00000
41.92798	16.13333 63.66667	90.15000	0.0012040	240.80E-6	0.50556	0.50556	-0.50556	-0.50556	0.50677	0.50580	OK	-0.50556	-0.50556	OK	5.8672E+5	-	-	0.00000
44.92284	15.97143 66.65714	90.15000	0.0014929	298.57E-6	0.59782	0.59782	-0.59782	-0.59782	0.59931	0.59811	OK	-0.59782	-0.59782	OK	4.9618E+5	-	-	0.00000
47.91769	15.80952 69.64762	90.15000	0.0017971	359.43E-6	0.45412	0.45412	-0.45412	-0.45412	0.45592	0.45448	OK	-0.45412	-0.45412	OK	6.5318E+5	-	-	0.00000
50.91255	15.64762 72.63810	90.15000	0.0019722	394.44E-6	0.11096	0.11096	-0.11096	-0.11096	0.11293	0.11135	OK	-0.11096	-0.11096	OK	2.6733E+6	-	-	0.00000
53.90740	15.48571 75.62857	90.15000	0.0019191	383.92E-6	0.27973	0.27973	-0.27973	-0.27973	0.28165	0.28012	OK	-0.27973	-0.27973	OK	1.0604E+6	-	-	180.00000
56.90226	15.32381 78.61905	90.15000	0.0016650	332.99E-6	0.56165	0.56165	-0.56165	-0.56165	0.56331	0.56198	OK	-0.56165	-0.56165	OK	5.2813E+5	-	-	180.00000

Note: Tensile strains are +ve, compressive strains are -ve.
Note: The peak flexural tensile strain orientation angle is measured with respect to the global z-axis by looking at the end point of the utility from the start point. Anti-clockwise is positive.

Specific Utility Damage Results - Maximum Values

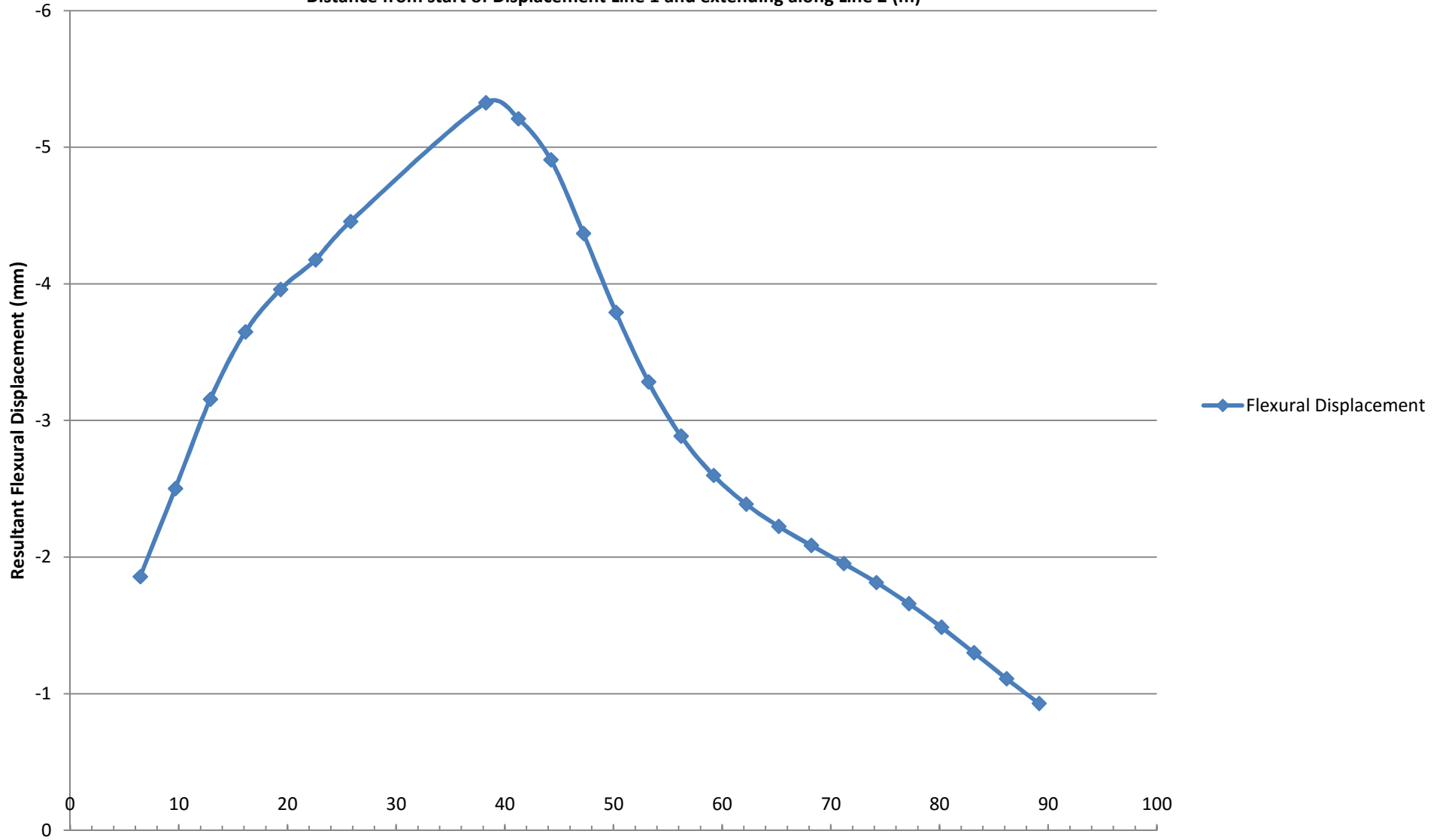
Name	Jointed	Displacement Data Type	Displacement Data	Maximum Pullout		Maximum Rotation		Maximum Strain			Minimum Radius of Curvature		Maximum Displacement					
				(Factored)		(Factored)		(Factored)			Location	Value	Vertical		Horizontal			
				Location	Value	Location	Value	Location	Value	Location			Value	Location	Value	Location	Value	
Cast Iron Main	Yes	Displacement	Line 1	16.130	0.039073	16.130	0.00377	16.12979	5.19923	16.12979	-5.19768	16.130	5.7069E+4	32.259	-5.3075	32.259	0.0	32.259
Cast Iron Main	Yes	Displacement	Line 2	11.979	0.055346	11.979	0.00535	11.97942	7.91391	11.97942	-7.91195	11.979	3.7491E+4	2.9949	-5.3438	62.891	0.0	62.891

Note: * symbol indicates that the value has exceeded one of (or both) the limiting criteria

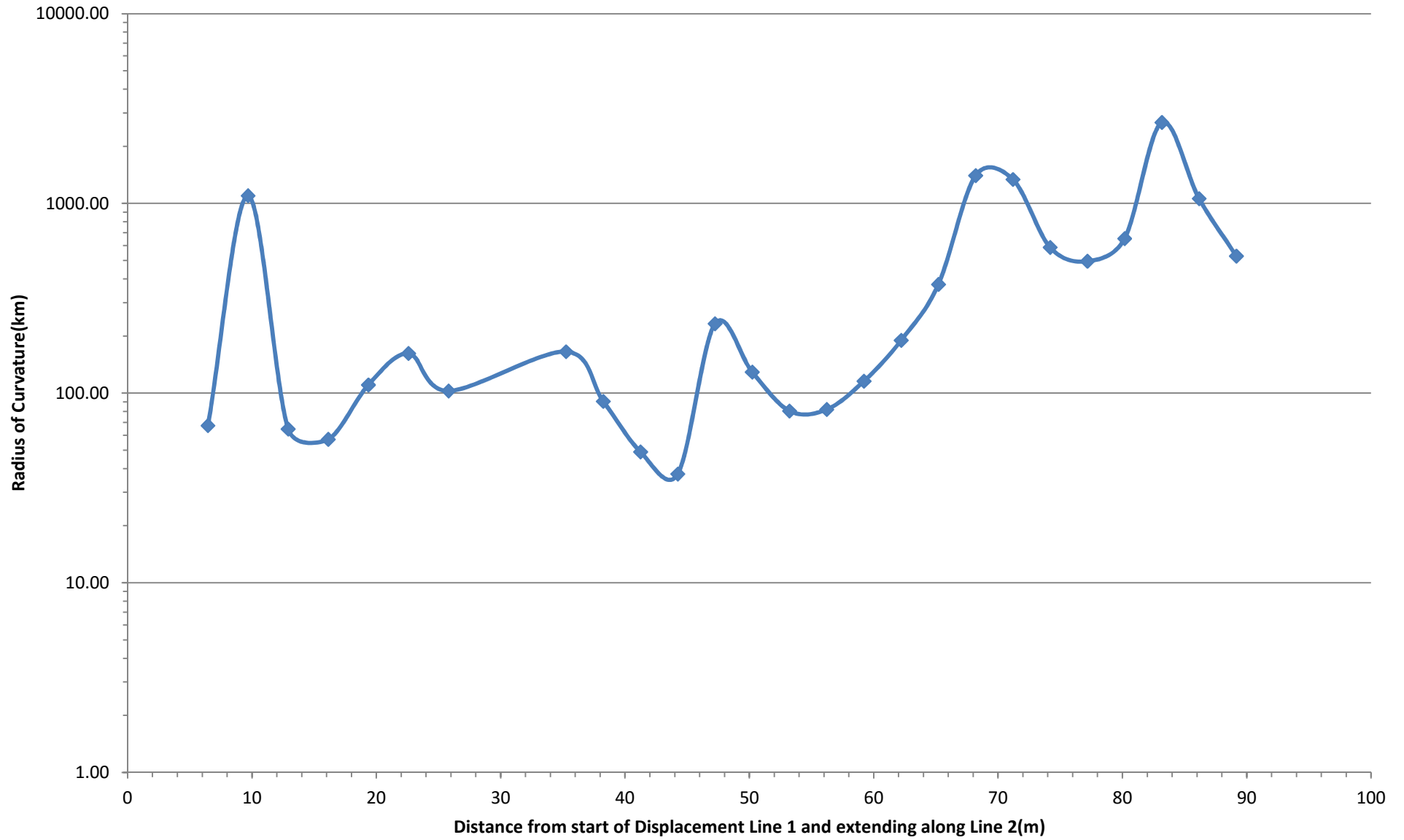


Case 1-Resultant Flexural Displacement Profile

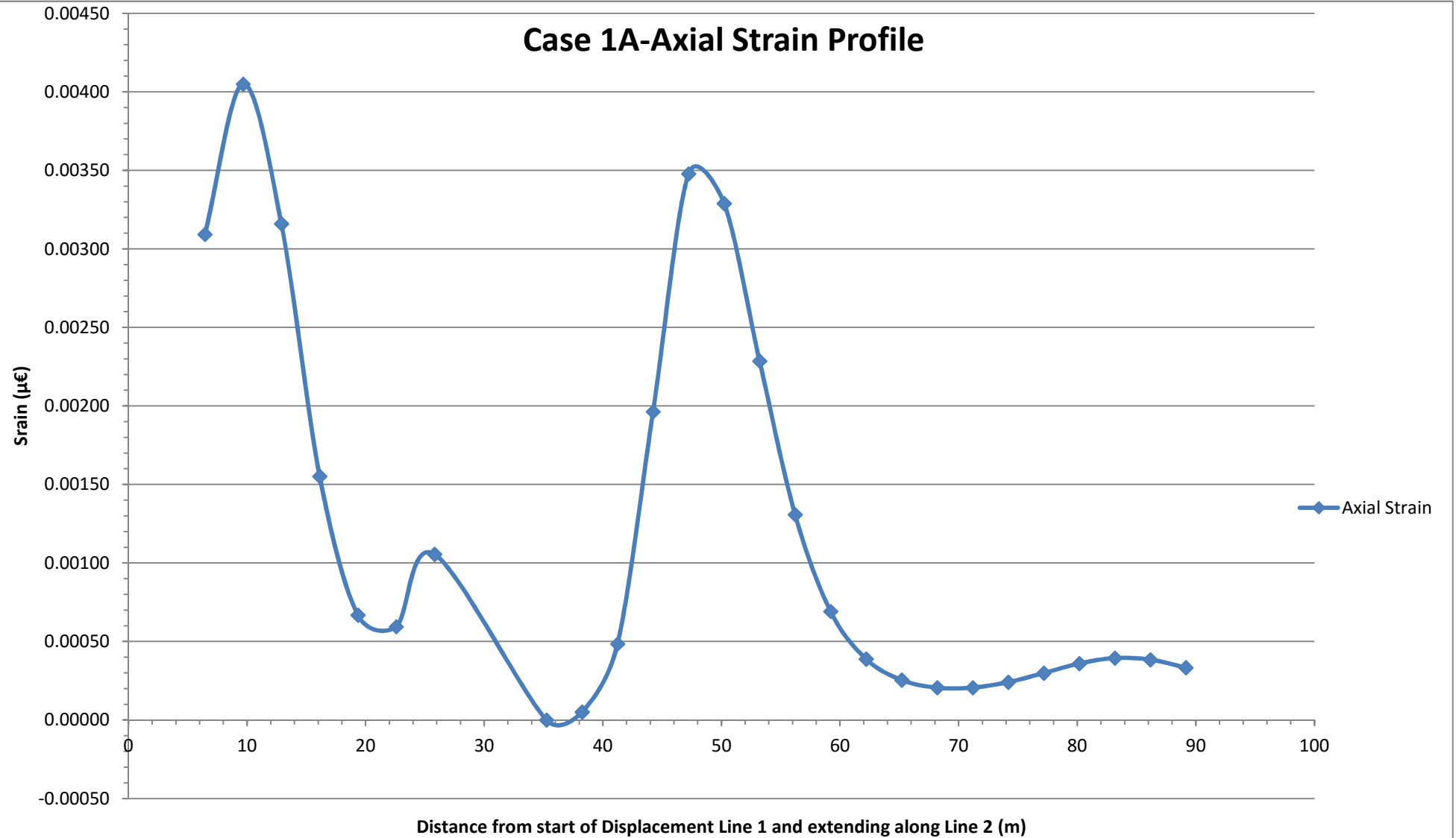
Distance from start of Displacement Line 1 and extending along Line 2 (m)



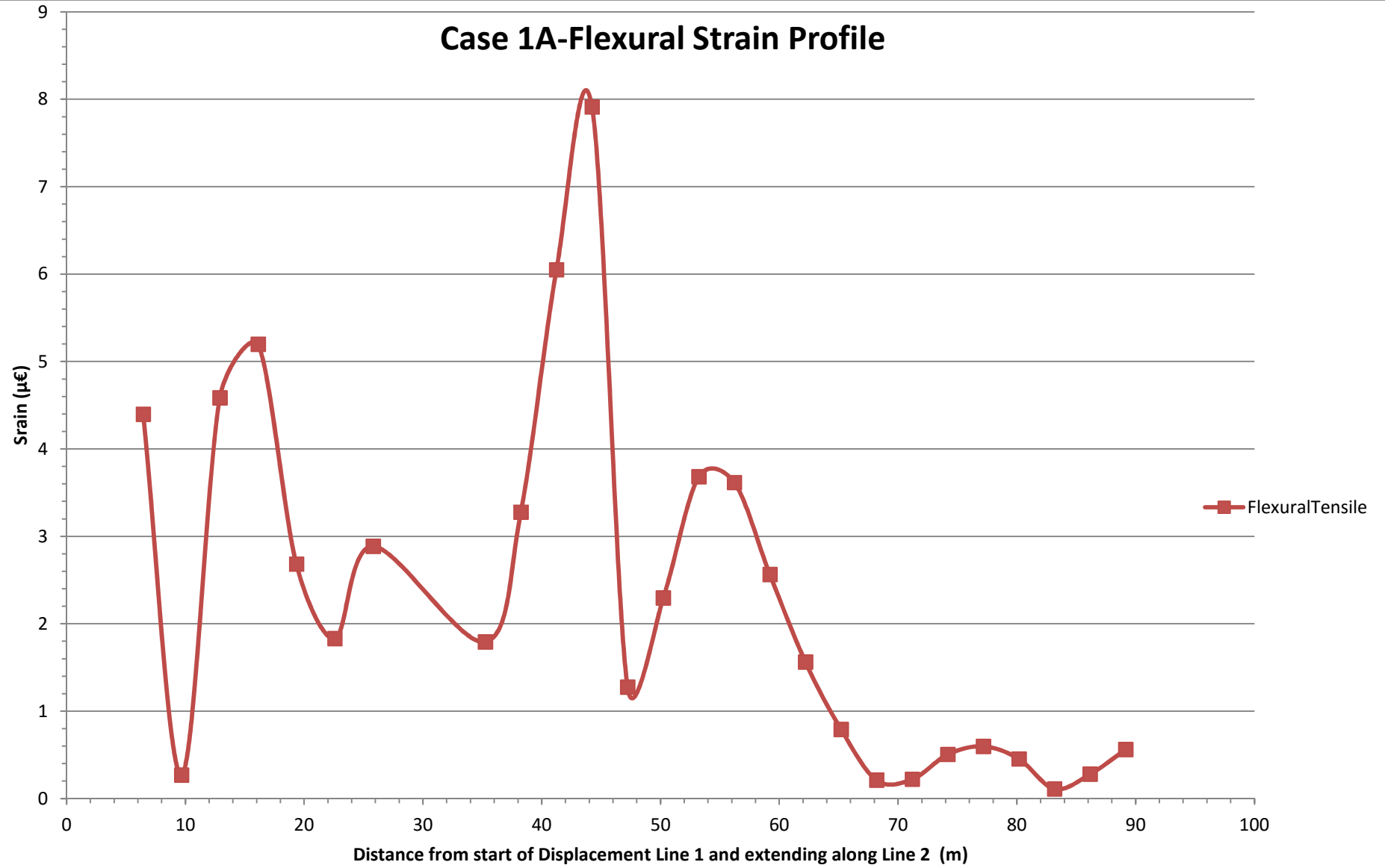
Case 1A-Radius of Curvature Profile



Case 1A-Axial Strain Profile



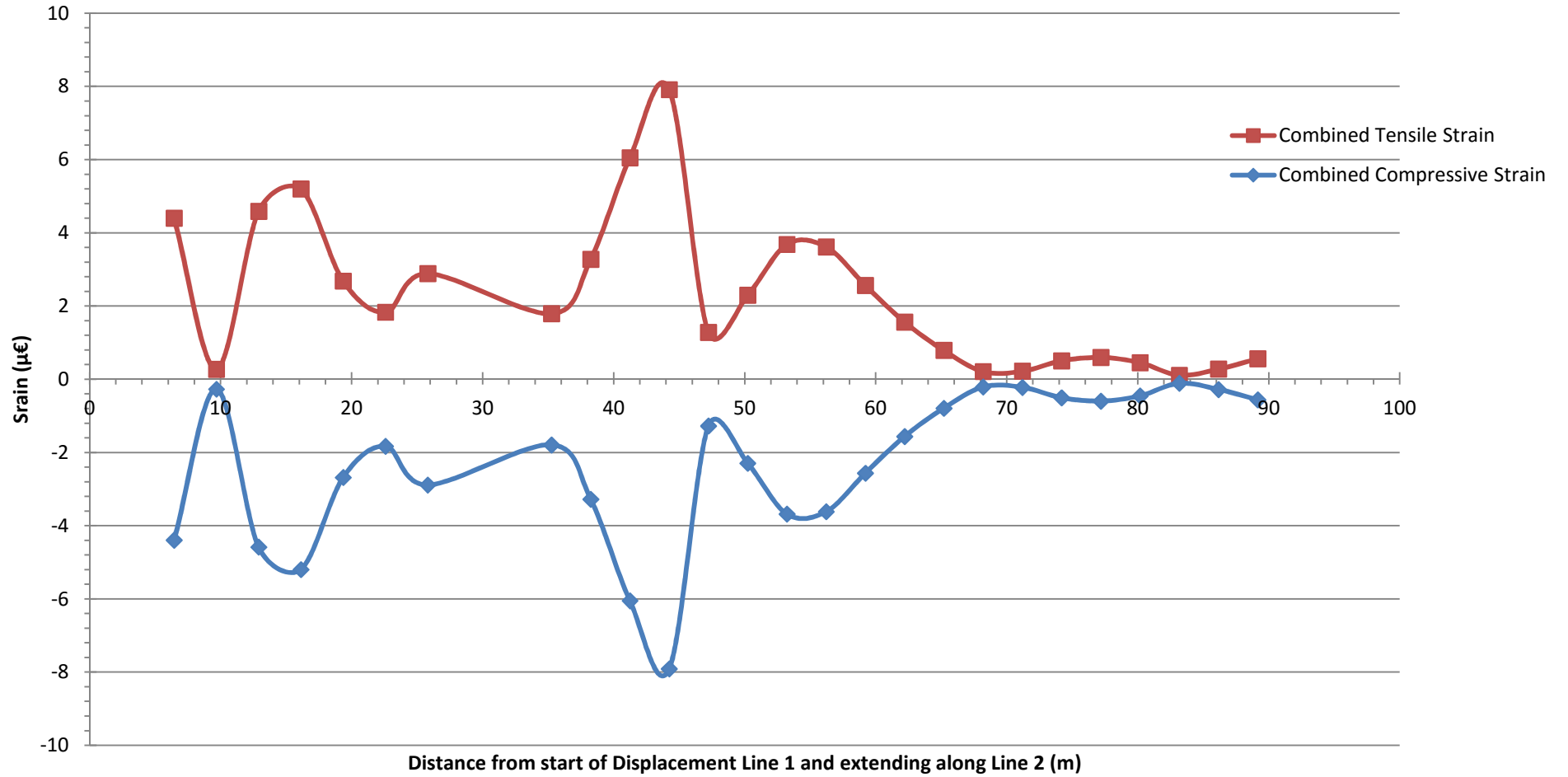
Case 1A-Flexural Strain Profile



Case 1A-Flexural Strain Profile



Case 1A-Combined Strain Profile



APPENDIX B

Case 2A-Figures and XDISP output



SOUTHERN TESTING LABORATORIES

Kidderpore
Case 2A
Without Beneficial Strain

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked
	15-Nov-2016	

Utility Strain Calculation Options

Neglect beneficial contribution of axial strains : Yes

Displacement and Strain Results

Type/No.	Coordinates			Displacements			Angle of Line			
Name	Dist.	x	y	z	x	y	z	Horizontal displacement along Line	Horizontal displacement perpendicular to Line	to x Axis
[m]	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]
Line 1	Line 1	26.60000	-9.40000	90.15000	0.0	0.0	0.92708	0.0	0.0	104.73 *
		3.2260	-6.28000	90.15000	0.0	0.0	1.4798	0.0	0.0	104.73 *
		6.4519	-3.16000	90.15000	0.0	0.0	2.5407	0.0	0.0	104.73 *
		9.6779	-0.04000	90.15000	0.0	0.0	3.4396	0.0	0.0	104.73 *
		12.904	3.08000	90.15000	0.0	0.0	3.4651	0.0	0.0	104.73 *
		16.130	6.20000	90.15000	0.0	0.0	3.8396	0.0	0.0	104.73 *
		19.356	9.32000	90.15000	0.0	0.0	4.7492	0.0	0.0	104.73 *
		22.582	12.44000	90.15000	0.0	0.0	5.2440	0.0	0.0	104.73 *
		25.808	15.56000	90.15000	0.0	0.0	2.5698	0.0	0.0	104.73 **
		29.034	18.68000	90.15000	0.0	0.0	1.6251	0.0	0.0	104.73 *
		32.260	21.80000	90.15000	0.0	0.0	1.3512	0.0	0.0	104.73 *
Line 2	Line 2	18.40000	21.80000	90.15000	0.0	0.0	1.3512	0.0	0.0	93.099 *
		2.9949	24.79048	90.15000	0.0	0.0	1.9984	0.0	0.0	93.099 *
		5.9897	27.78095	90.15000	0.0	0.0	3.1807	0.0	0.0	93.099 *
		8.9846	30.77143	90.15000	0.0	0.0	3.6706	0.0	0.0	93.099 *
		11.979	33.76190	90.15000	0.0	0.0	1.7840	0.0	0.0	93.099 *
		14.974	36.75238	90.15000	0.0	0.0	1.4050	0.0	0.0	93.099 *
		17.969	39.74286	90.15000	0.0	0.0	1.5446	0.0	0.0	93.099 *
		20.964	42.73333	90.15000	0.0	0.0	1.8149	0.0	0.0	93.099 *
		23.959	45.72381	90.15000	0.0	0.0	2.0752	0.0	0.0	93.099 *
		26.954	48.71429	90.15000	0.0	0.0	2.2848	0.0	0.0	93.099 *
		29.949	51.70476	90.15000	0.0	0.0	2.4521	0.0	0.0	93.099 *
		32.943	54.69524	90.15000	0.0	0.0	2.5945	0.0	0.0	93.099 *
		35.938	57.68571	90.15000	0.0	0.0	2.7274	0.0	0.0	93.099 *
		38.933	60.67619	90.15000	0.0	0.0	2.8637	0.0	0.0	93.099 *
		41.928	63.66667	90.15000	0.0	0.0	3.0202	0.0	0.0	93.099 *
		44.923	66.65714	90.15000	0.0	0.0	3.1960	0.0	0.0	93.099 *
		47.918	69.64762	90.15000	0.0	0.0	2.7819	0.0	0.0	93.099 *
		50.913	72.63810	90.15000	0.0	0.0	0.80090	0.0	0.0	93.099 *
		53.907	75.62857	90.15000	0.0	0.0	0.021621	0.0	0.0	93.099 *
		56.902	78.61905	90.15000	0.0	0.0	-0.25528	0.0	0.0	93.099 *
		59.897	81.60952	90.15000	0.0	0.0	-0.34414	0.0	0.0	93.099 *
		62.892	84.60000	90.15000	0.0	0.0	-0.35599	0.0	0.0	93.099 *

* Result includes imported displacement(s).

Specific Utility Damage Results - Coordinates and Displacements

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates			Displacements			Displacements at (n-Lp)			Displacements at (n+Lp)			
	x	y	z	x	y	z	Horizontal displacement along utility	Horizontal displacement perpendicular to utility	x	y	z	Horizontal displacement along utility	Horizontal displacement perpendicular to utility
[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]

Iteration: 1

6.45191	24.96000	-3.16000	90.15000	0.00000	0.00000	2.54069	0.00000	0.00000	0.00000	0.00000	1.40574	0.00000	0.00000	0.00000	0.00000	3.44298	0.00000	0.00000
12.90383	23.32000	3.08000	90.15000	0.00000	0.00000	3.46511	0.00000	0.00000	0.00000	0.00000	3.31918	0.00000	0.00000	0.00000	0.00000	3.96144	0.00000	0.00000
19.35574	21.68000	9.32000	90.15000	0.00000	0.00000	4.74918	0.00000	0.00000	0.00000	0.00000	3.78946	0.00000	0.00000	0.00000	0.00000	4.88587	0.00000	0.00000
25.80766	20.04000	15.56000	90.15000	0.00000	0.00000	2.56981	0.00000	0.00000	0.00000	0.00000	5.17775	0.00000	0.00000	0.00000	0.00000	1.58844	0.00000	0.00000

Iteration: 2

9.67787	24.14000	-0.04000	90.15000	0.00000	0.00000	3.43956	0.00000	0.00000	0.00000	0.00000	2.39960	0.00000	0.00000	0.00000	0.00000	3.51526	0.00000	0.00000
16.12979	22.50000	6.20000	90.15000	0.00000	0.00000	3.83962	0.00000	0.00000	0.00000	0.00000	3.46169	0.00000	0.00000	0.00000	0.00000	4.81545	0.00000	0.00000
22.58170	20.86000	12.44000	90.15000	0.00000	0.00000	5.24402	0.00000	0.00000	0.00000	0.00000	4.62737	0.00000	0.00000	0.00000	0.00000	2.44329	0.00000	0.00000

Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point	Coordinates			Displacements			Displacements at (n-Lp)			Displacements at (n+Lp)			
	x	y	z	x	y	z	Horizontal displacement along utility	Horizontal displacement perpendicular to utility	x	y	z	Horizontal displacement along utility	Horizontal displacement perpendicular to utility
[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]

Iteration: 1

5.98971	18.07619	27.78095	90.15000	0.00000	0.00000	3.18069	0.00000	0.00000	0.00000	0.00000	1.85509	0.00000	0.00000	0.00000	0.00000	3.25286	0.00000	0.00000
11.97942	17.75238	33.76190	90.15000	0.00000	0.00000	1.78398	0.00000	0.00000	0.00000	0.00000	3.56213	0.00000	0.00000	0.00000	0.00000	1.43588	0.00000	0.00000
17.96913	17.42857	39.74286	90.15000	0.00000	0.00000	1.54458	0.00000	0.00000	0.00000	0.00000	1.48889	0.00000	0.00000	0.00000	0.00000	1.87256	0.00000	0.00000
23.95885	17.10476	45.72381	90.15000	0.00000	0.00000	2.07517	0.00000	0.00000	0.00000	0.00000	1.75507	0.00000	0.00000	0.00000	0.00000	2.32186	0.00000	0.00000
29.94856	16.78095	51.70476	90.15000	0.00000	0.00000	2.45213	0.00000	0.00000	0.00000	0.00000	2.23839	0.00000	0.00000	0.00000	0.00000	2.62389	0.00000	0.00000
35.93827	16.45714	57.68571	90.15000	0.00000	0.00000	2.72742	0.00000	0.00000	0.00000	0.00000	2.56294	0.00000	0.00000	0.00000	0.00000	2.89386	0.00000	0.00000
41.92798	16.13333	63.66667	90.15000	0.00000	0.00000	3.02017	0.00000	0.00000	0.00000	0.00000	2.83354	0.00000	0.00000	0.00000	0.00000	3.10433	0.00000	0.00000
47.91769	15.80952	69.64762	90.15000	0.00000	0.00000	2.78193	0.00000	0.00000	0.00000	0.00000	3.15708	0.00000	0.00000	0.00000	0.00000	0.62834	0.00000	0.00000
53.90740	15.48571	75.62857	90.15000	0.00000	0.00000	0.02162	0.00000	0.00000	0.00000	0.00000	1.23955	0.00000	0.00000	0.00000	0.00000	-0.27496	0.00000	0.00000

Iteration: 2

8.98457	17.91429	30.77143	90.15000	0.00000	0.00000	3.67061	0.00000	0.00000	0.00000	0.00000	2.91889	0.00000	0.00000	0.00000	0.00000	1.70006	0.00000	0.00000
14.97428	17.59048	36.75238	90.15000	0.00000	0.00000	1.40497	0.00000	0.00000	0.00000	0.00000	2.20173	0.00000	0.00000	0.00000	0.00000	1.60445	0.00000	0.00000
20.96399	17.26667	42.73333	90.15000	0.00000	0.00000	1.81494	0.00000	0.00000	0.00000	0.00000	1.51367	0.00000	0.00000	0.00000	0.00000	2.12159	0.00000	0.00000
26.95370	16.94286	48.71429	90.15000	0.00000	0.00000	2.28481	0.00000	0.00000	0.00000	0.00000	2.01754	0.00000	0.00000	0.00000	0.00000	2.48364	0.00000	0.00000
32.94341	16.61905	54.69524	90.15000	0.00000	0.00000	2.59445	0.00000	0.00000	0.00000	0.00000	2.41508	0.00000	0.00000	0.00000	0.00000	2.75760	0.00000	0.00000
38.93312	16.29524	60.67619	90.15000	0.00000	0.00000	2.86372	0.00000	0.00000	0.00000	0.00000	2.69797	0.00000	0.00000	0.00000	0.00000	3.05911	0.00000	0.00000
44.92284	15.97143	66.65714	90.15000	0.00000	0.00000	3.19602	0.00000	0.00000	0.00000	0.00000	2.98553	0.00000	0.00000	0.00000	0.00000	2.34327	0.00000	0.00000
50.91255	15.64762	72.63810	90.15000	0.00000	0.00000	0.80090	0.00000	0.00000	0.00000	0.00000	2.87362	0.00000	0.00000	0.00000	0.00000	-0.03969	0.00000	0.00000
56.90226	15.32381	78.61905	90.15000	0.00000	0.00000	-0.25528	0.00000	0.00000	0.00000	0.00000	0.19417	0.00000	0.00000	0.00000	0.00000	-0.34676	0.00000	0.00000

Specific Utility Damage Results - Pullouts and Rotations

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

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||
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SOUTHERN TESTING LABORATORIES

Kidderpore
Case 2A
Without Beneficial Strain

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked
	15-Nov-2016	

Rotation	x		y		z		Pullout												Threshold Limit	
	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Left Seg.		Right Seg.		Axial		Flexural		Total		Total			
[Deg]	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
Iteration: 1																				
6.45191	24.96000	-3.16000	90.15000	0.00000	0.00000	0.01887	0.01887	0.00000	0.00000	0.01887	0.01887	0.00000	0.00000	0.03773	0.03773	0.03773	0.03773	-	OK	
0.00364	0.00364	-	OK	Sagging																
12.90383	23.32000	3.08000	90.15000	0.00000	0.00000	0.02841	0.02841	0.00000	0.00000	0.02841	0.02841	0.00000	0.00000	0.05683	0.05683	0.05683	0.05683	-	OK	
0.00549	0.00549	-	OK	Hogging																
19.35574	21.68000	9.32000	90.15000	0.00000	0.00000	0.06674	0.06674	0.00000	0.00000	0.06674	0.06674	0.00000	0.00000	0.13348	0.13348	0.13348	0.13348	-	OK	
0.01289	0.01289	-	OK	Sagging																
25.80766	20.04000	15.56000	90.15000	0.00000	0.00000	0.13190	0.13190	0.00000	0.00000	0.13190	0.13190	0.00000	0.00000	0.26379	0.26379	0.26379	0.26379	-	OK	
0.02548	0.02548	-	OK	Hogging																
Iteration: 2																				
9.67787	24.14000	-0.04000	90.15000	0.00000	0.00000	0.07827	0.07827	0.00000	0.00000	0.07827	0.07827	0.00000	0.00000	0.15654	0.15654	0.15654	0.15654	-	OK	
0.01512	0.01512	-	OK	Sagging																
16.12979	22.50000	6.20000	90.15000	0.00000	0.00000	0.04848	0.04848	0.00000	0.00000	0.04848	0.04848	0.00000	0.00000	0.09697	0.09697	0.09697	0.09697	-	OK	
0.00936	0.00936	-	OK	Hogging																
22.58170	20.86000	12.44000	90.15000	0.00000	0.00000	0.27711	0.27711	0.00000	0.00000	0.27711	0.27711	0.00000	0.00000	0.55422	0.55422	0.55422	0.55422	-	OK	
0.05353	0.05353	-	OK	Sagging																

Note: Total pullout ignores the axial component where this is negative (i.e. compression).

Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point	Coordinates			Pullout Check												Threshold Limit			
	x	y	z	Left Seg.		Right Seg.		Axial		Flexural		Total		Total					
[m]	[m]	[m]	[m]	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored		
Iteration: 1																			
5.98971	18.07619	27.78095	90.15000	0.00000	0.00000	0.10164	0.10164	0.00000	0.00000	0.10164	0.10164	0.00000	0.00000	0.20328	0.20328	0.20328	0.20328	-	OK
0.01963	0.01963	-	OK	Sagging															
11.97942	17.75238	33.76190	90.15000	0.00000	0.00000	0.11596	0.11596	0.00000	0.00000	0.11596	0.11596	0.00000	0.00000	0.23192	0.23192	0.23192	0.23192	-	OK
0.02240	0.02240	-	OK	Hogging															
17.96913	17.42857	39.74286	90.15000	0.00000	0.00000	0.02208	0.02208	0.00000	0.00000	0.02208	0.02208	0.00000	0.00000	0.04416	0.04416	0.04416	0.04416	-	OK
0.00426	0.00426	-	OK	Hogging															
23.95885	17.10476	45.72381	90.15000	0.00000	0.00000	0.00595	0.00595	0.00000	0.00000	0.00595	0.00595	0.00000	0.00000	0.01190	0.01190	0.01190	0.01190	-	OK
0.00115	0.00115	-	OK	Sagging															
29.94856	16.78095	51.70476	90.15000	0.00000	0.00000	0.00340	0.00340	0.00000	0.00000	0.00340	0.00340	0.00000	0.00000	0.00681	0.00681	0.00681	0.00681	-	OK
0.00066	0.00066	-	OK	Sagging															
35.92827	16.45714	57.68571	90.15000	0.00000	0.00000	0.00052	0.00052	0.00000	0.00000	0.00052	0.00052	0.00000	0.00000	0.00105	0.00105	0.00105	0.00105	-	OK
0.00010	0.00010	-	OK	Hogging															
41.92798	16.13333	63.66667	90.15000	0.00000	0.00000	0.00831	0.00831	0.00000	0.00000	0.00831	0.00831	0.00000	0.00000	0.01662	0.01662	0.01662	0.01662	-	OK
0.00161	0.00161	-	OK	Sagging															
47.91769	15.80952	69.64762	90.15000	0.00000	0.00000	0.14421	0.14421	0.00000	0.00000	0.14421	0.14421	0.00000	0.00000	0.28842	0.28842	0.28842	0.28842	-	OK
0.02786	0.02786	-	OK	Sagging															
53.90740	15.48571	75.62857	90.15000	0.00000	0.00000	0.07471	0.07471	0.00000	0.00000	0.07471	0.07471	0.00000	0.00000	0.14942	0.14942	0.14942	0.14942	-	OK
0.01443	0.01443	-	OK	Hogging															
Iteration: 2																			
8.98457	17.91429	30.77143	90.15000	0.00000	0.00000	0.22075	0.22075	0.00000	0.00000	0.22075	0.22075	0.00000	0.00000	0.44149	0.44149	0.44149	0.44149	-	OK
0.04264	0.04264	-	OK	Sagging															
14.97428	17.59048	36.75238	90.15000	0.00000	0.00000	0.08078	0.08078	0.00000	0.00000	0.08078	0.08078	0.00000	0.00000	0.16157	0.16157	0.16157	0.16157	-	OK
0.01560	0.01560	-	OK	Hogging															
20.96399	17.26667	42.73333	90.15000	0.00000	0.00000	0.00044	0.00044	0.00000	0.00000	0.00044	0.00044	0.00000	0.00000	0.00087	0.00087	0.00087	0.00087	-	OK
0.00008	0.00008	-	OK	Hogging															
26.95370	16.94286	48.71429	90.15000	0.00000	0.00000	0.00555	0.00555	0.00000	0.00000	0.00555	0.00555	0.00000	0.00000	0.01110	0.01110	0.01110	0.01110	-	OK
0.00107	0.00107	-	OK	Sagging															
32.94341	16.61905	54.69524	90.15000	0.00000	0.00000	0.00132	0.00132	0.00000	0.00000	0.00132	0.00132	0.00000	0.00000	0.00263	0.00263	0.00263	0.00263	-	OK
0.00025	0.00025	-	OK	Sagging															
38.93312	16.29524	60.67619	90.15000	0.00000	0.00000	0.00240	0.00240	0.00000	0.00000	0.00240	0.00240	0.00000	0.00000	0.00481	0.00481	0.00481	0.00481	-	OK
0.00046	0.00046	-	OK	Hogging															
44.92284	15.97143	66.65714	90.15000	0.00000	0.00000	0.08622	0.08622	0.00000	0.00000	0.08622	0.08622	0.00000	0.00000	0.17243	0.17243	0.17243	0.17243	-	OK
0.01665	0.01665	-	OK	Sagging															
50.91255	15.64762	72.63810	90.15000	0.00000	0.00000	0.09991	0.09991	0.00000	0.00000	0.09991	0.09991	0.00000	0.00000	0.19983	0.19983	0.19983	0.19983	-	OK
0.01930	0.01930	-	OK	Hogging															
56.90226	15.32381	78.61905	90.15000	0.00000	0.00000	0.02903	0.02903	0.00000	0.00000	0.02903	0.02903	0.00000	0.00000	0.05806	0.05806	0.05806	0.05806	-	OK
0.00561	0.00561	-	OK	Hogging															

Note: Total pullout ignores the axial component where this is negative (i.e. compression).

Specific Utility Damage Results - Strains

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates			Pipe Strain Check												Radius of Curvature Check		Peak flexural tensile strain orientation angle (w.r.t global z-axis)	
	x	y	z	Axial		Flexural		Tension		Compression		Total		Check	Radius of Curvature				
[m]	[m]	[m]	[m]	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Check	[m]	[Deg]			
Iteration: 1																			
6.45191	24.96000	-3.16000	90.15000	0.046134	0.0092267	4.6192	4.6192	-4.6192	-4.6192	4.66530	4.62839	OK	-4.61917	-4.61917	OK	6.4216E+4	-	-	180.00000
9.67787	24.14000	-0.04000	90.15000	0.010264	0.0020528	24.892	24.892	-24.892	-24.892	24.90271	24.89450	OK	-24.89245	-24.89245	OK	1.1916E+4	-	-	180.00000
12.90383	23.32000	3.08000	90.15000	0.0019224	284.47E-6	9.9467	9.9467	-9.9467	-9.9467	9.94865	9.94711	OK	-9.94673	-9.94673	OK	2.9821E+4	-	-	0.00000
16.12979	22.50000	6.20000	90.15000	0.019805	0.0039610	15.250	15.250	-15.250	-15.250	15.27019	15.25435	OK							



**SOUTHERN TESTING
LABORATORIES**

**Kidderpore
Case 2A
Without Beneficial Strain**

Job No. Sheet No. Rev.

J12093

Drq. Ref.

Made by Date Checked
15-Nov-2016

Distance from the utility's start	Coordinates	Pipe Strain Check										Radius of Curvature Check		Peak flexural tensile strain orientation angle (w.r.t start)			
8.98457	17.91429 30.77143 90.15000	0.027187	0.0054375	78.596	78.596	-78.596	-78.596	78.62339	78.60164	OK	-78.59620	-78.59620	OK	3.7740E+3	-	-	180.00000
11.97942	17.75238 33.76190 90.15000	0.071538	0.014308	49.859	49.859	-49.859	-49.859	49.93083	49.87360	OK	-49.85930	-49.85930	OK	5.9492E+3	-	-	0.00000
14.97428	17.59048 36.75238 90.15000	798.73E-6	159.75E-6	17.152	17.152	-17.152	-17.152	17.15233	17.15169	OK	-17.15153	-17.15153	OK	1.7294E+4	-	-	0.00000
17.96913	17.42857 39.74286 90.15000	0.0023424	468.47E-6	4.3240	4.3240	-4.3240	-4.3240	4.32631	4.32444	OK	-4.32397	-4.32397	OK	6.8600E+4	-	-	0.00000
20.96399	17.26667 42.73333 90.15000	0.0039234	784.69E-6	0.33494	0.33494	-0.33494	-0.33494	0.33887	0.33573	OK	-0.33494	-0.33494	OK	8.8559E+5	-	-	180.00000
23.95885	17.10476 45.72381 90.15000	0.0030769	615.39E-6	1.6729	1.6729	-1.6729	-1.6729	1.67597	1.67351	OK	-1.67290	-1.67290	OK	1.7731E+5	-	-	180.00000
26.95370	16.94286 48.71429 90.15000	0.0019804	396.09E-6	1.3997	1.3997	-1.3997	-1.3997	1.40166	1.40007	OK	-1.39968	-1.39968	OK	2.1192E+5	-	-	180.00000
29.94856	16.78095 51.70476 90.15000	0.0013362	267.25E-6	0.82677	0.82677	-0.82677	-0.82677	0.82810	0.82703	OK	-0.82677	-0.82677	OK	3.5878E+5	-	-	180.00000
32.94341	16.61905 54.69524 90.15000	0.0010561	211.23E-6	0.30950	0.30950	-0.30950	-0.30950	0.31056	0.30971	OK	-0.30950	-0.30950	OK	9.5840E+5	-	-	180.00000
35.93827	16.45714 57.68571 90.15000	0.0010105	202.09E-6	0.11039	0.11039	-0.11039	-0.11039	0.11140	0.11059	OK	-0.11039	-0.11039	OK	2.6871E+6	-	-	0.00000
38.93312	16.29524 60.67619 90.15000	0.0011945	238.99E-6	0.66657	0.66657	-0.66657	-0.66657	0.66777	0.66681	OK	-0.66657	-0.66657	OK	4.4500E+5	-	-	0.00000
41.92798	16.13333 63.66667 90.15000	0.0015390	307.79E-6	0.64123	0.64123	-0.64123	-0.64123	0.64277	0.64154	OK	-0.64123	-0.64123	OK	4.6259E+5	-	-	0.00000
44.92284	15.97143 66.65714 90.15000	791.04E-6	158.21E-6	19.510	19.510	-19.510	-19.510	19.51085	19.51022	OK	-19.51006	-19.51006	OK	1.5204E+4	-	-	180.00000
47.91769	15.80952 69.64762 90.15000	0.079949	0.015990	51.821	51.821	-51.821	-51.821	51.90128	51.83732	OK	-51.82133	-51.82133	OK	5.7240E+3	-	-	180.00000
50.91255	15.64762 72.63810 90.15000	0.10619	0.021238	39.744	39.744	-39.744	-39.744	39.85028	39.76533	OK	-39.74410	-39.74410	OK	7.4633E+3	-	-	0.00000
53.90740	15.48571 75.62857 90.15000	0.015447	0.0031093	16.614	16.614	-16.614	-16.614	16.62956	16.61722	OK	-16.61411	-16.61411	OK	1.7854E+4	-	-	0.00000
56.90226	15.32381 78.61905 90.15000	0.0018644	372.89E-6	6.2191	6.2191	-6.2191	-6.2191	6.22099	6.21950	OK	-6.21913	-6.21913	OK	4.7695E+4	-	-	0.00000

Note: Tensile strains are +ve, compressive strains are -ve.
Note: The peak flexural tensile strain orientation angle is measured with respect to the global z-axis by looking at the end point of the utility from the start point. Anti-clockwise is positive.

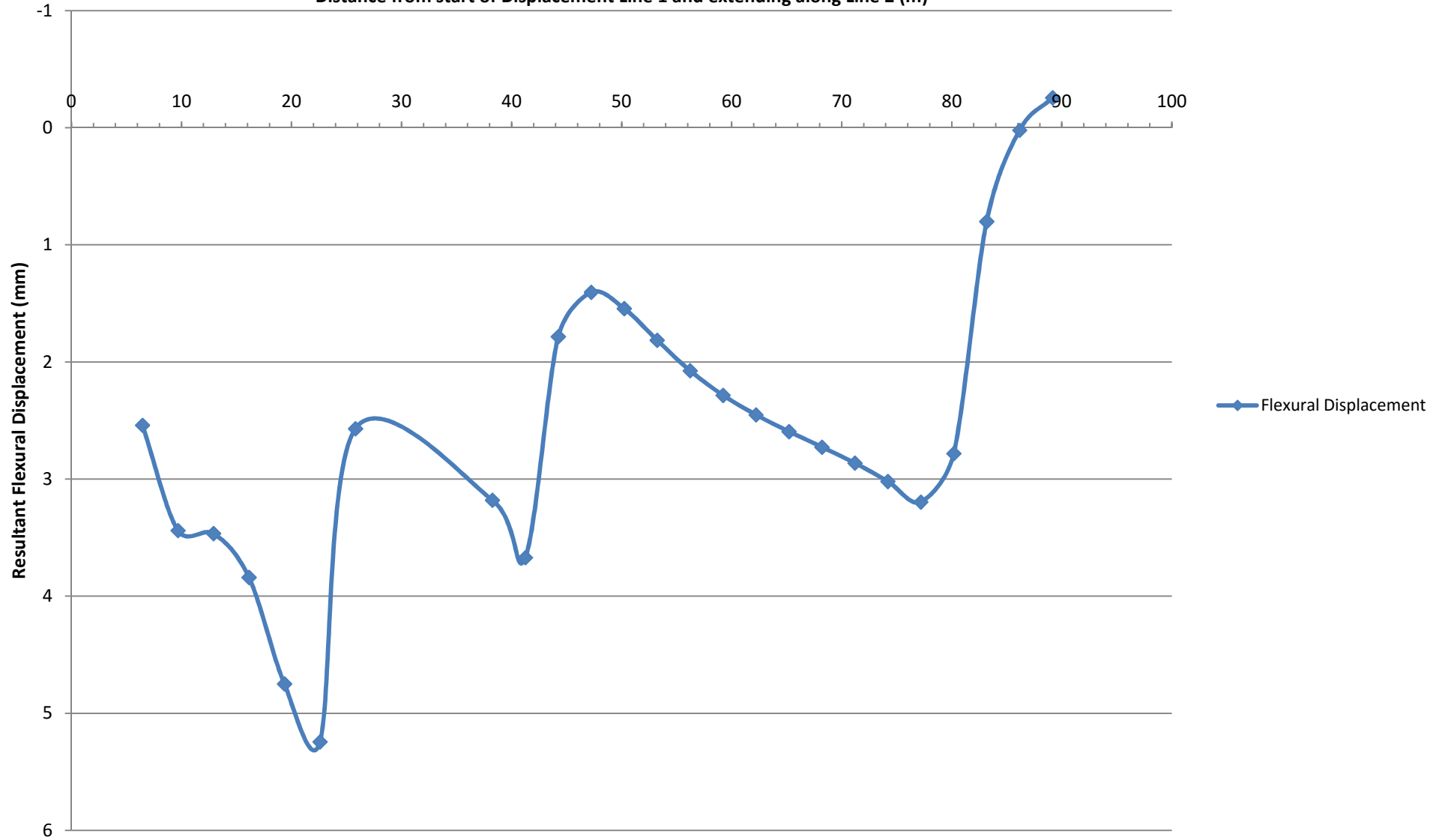
Specific Utility Damage Results - Maximum Values

Name	Jointed	Displacement Data Type	Displacement Data	Maximum Pullout		Maximum Rotation		Maximum Strain			Minimum Radius of Curvature		Maximum Displacement					
				(Factored)		(Factored)		(Factored)			Location	Value	Location	Value	Vertical		Horizontal	
				Location	Value	Location	Value	Location	Value	Location					Value	Location	Value	Location
Cast Iron Main	Yes	Displacement	Line 1	22.582	0.55422	22.582	0.05353	22.58170	90.33824	22.58170	-90.32683	22.582	3.2839E+3	22.582	5.2440	32.259	0.0	32.259
Cast Iron Main	Yes	Displacement	Line 2	8.9846	0.44149	8.9846	0.04264	8.98457	78.60164	8.98457	-78.59620	8.9846	3.7740E+3	8.9846	3.6706	62.891	0.0	62.891

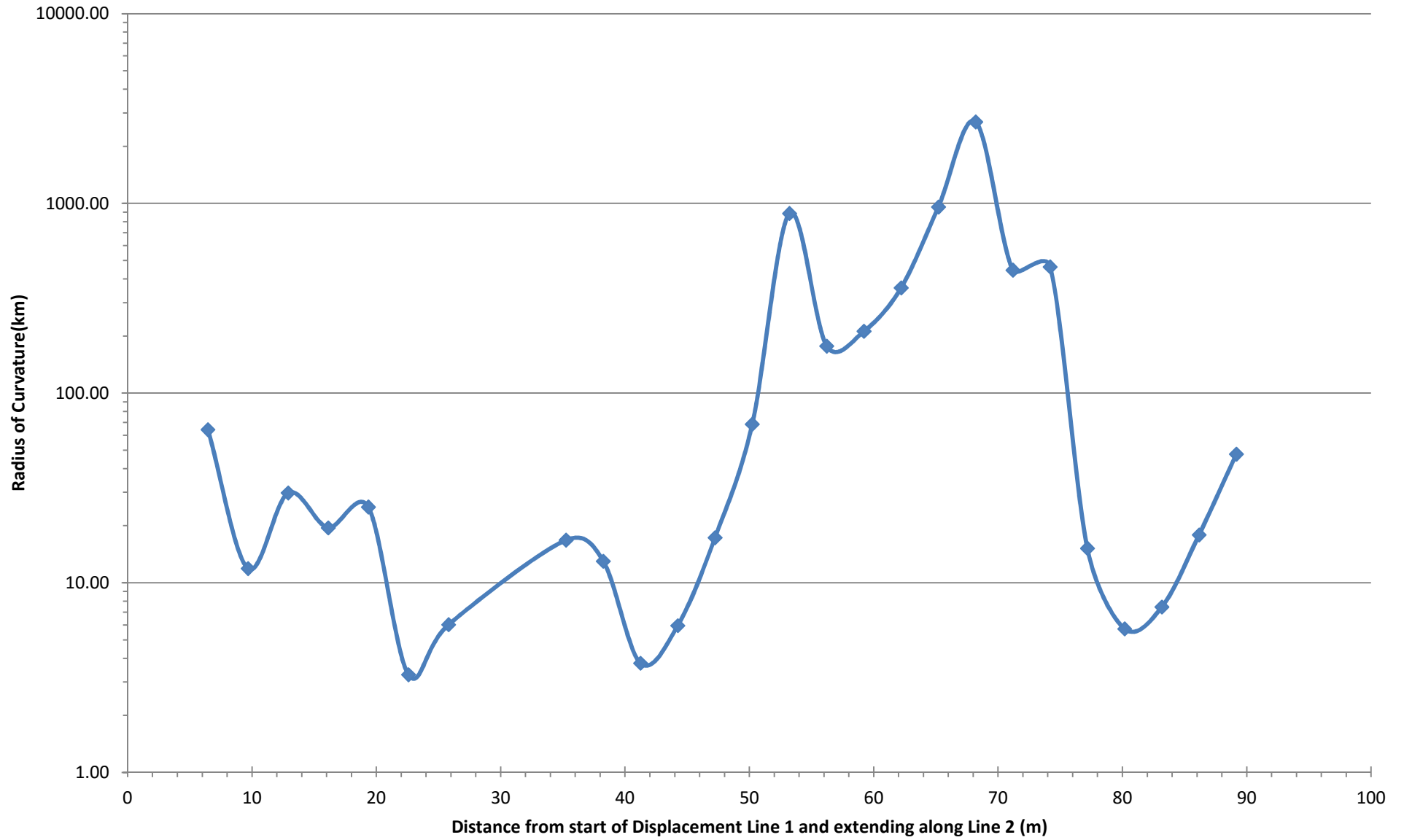
Note: * symbol indicates that the value has exceeded one of (or both) the limiting criteria

Case 2A-Resultant Flexural Displacement Profile

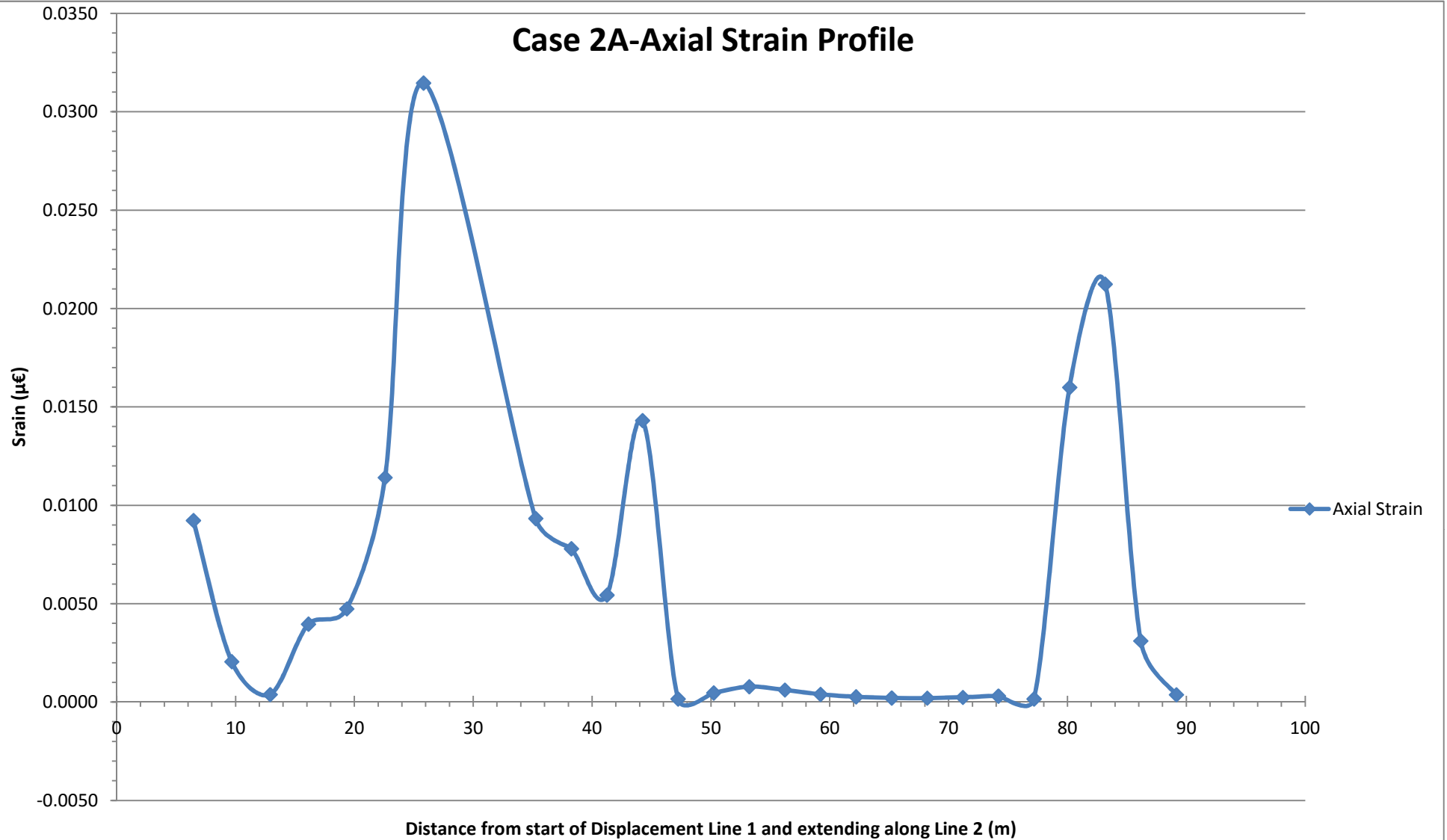
Distance from start of Displacement Line 1 and extending along Line 2 (m)



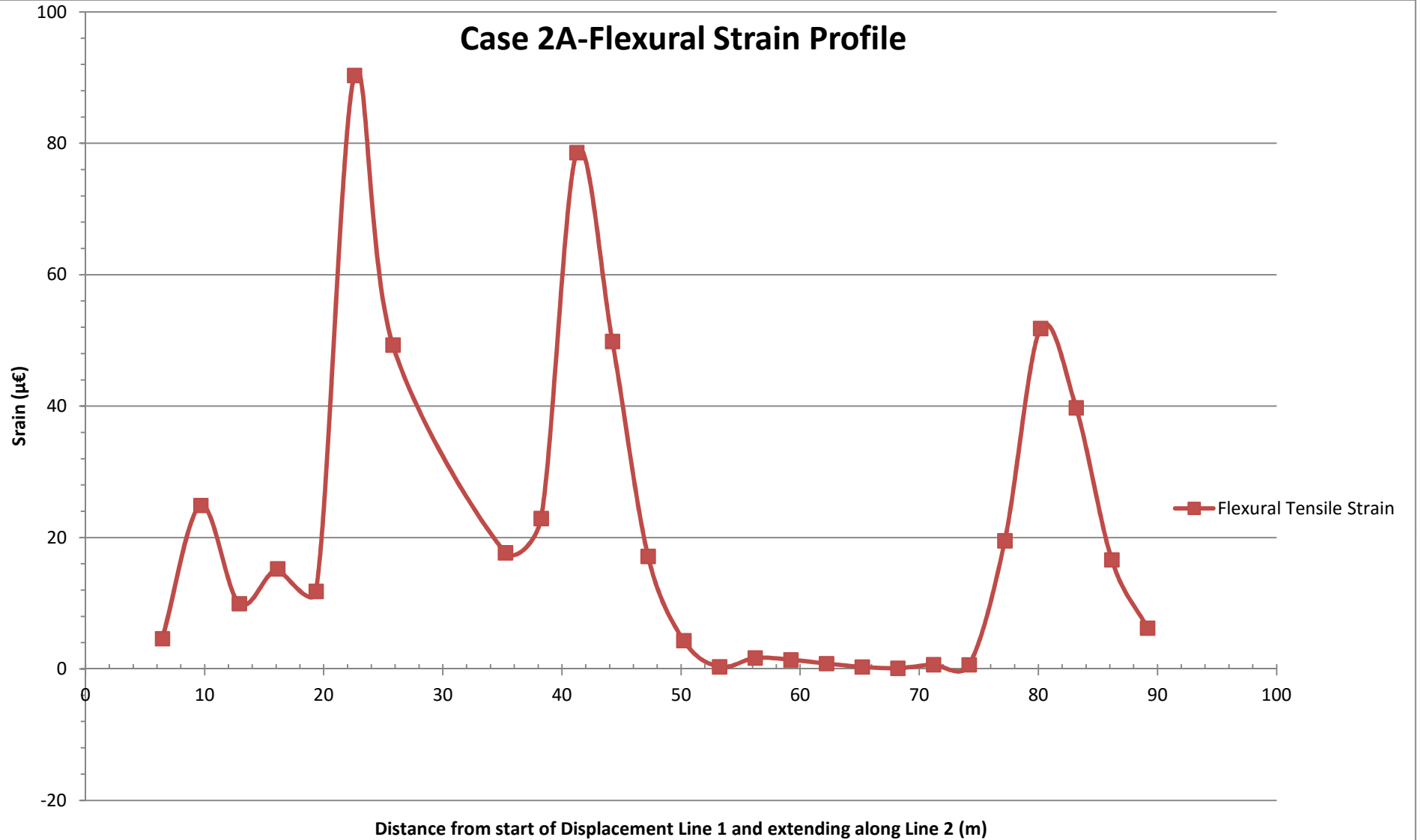
Case 2A-Radius of Curvature Profile



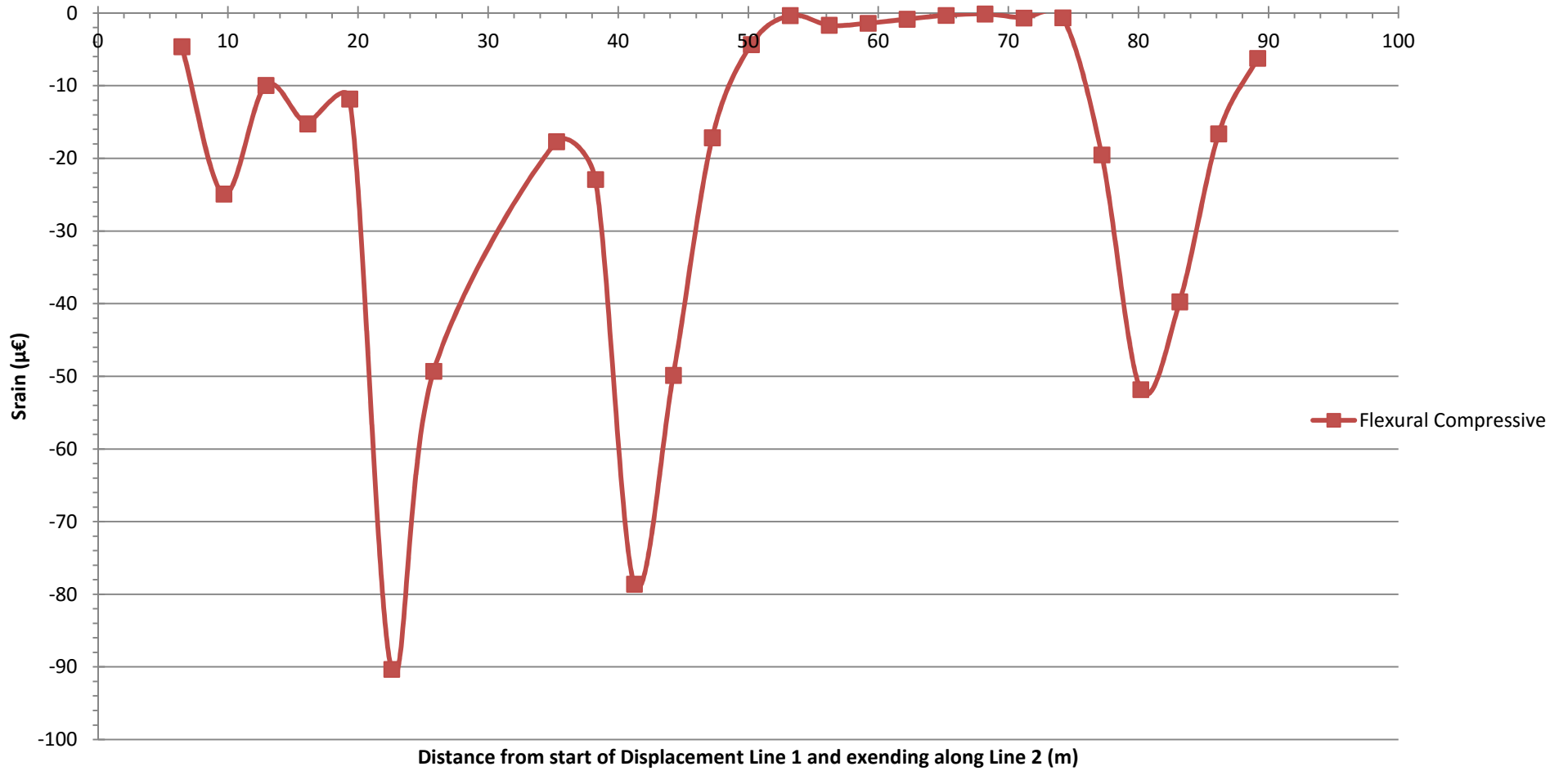
Case 2A-Axial Strain Profile



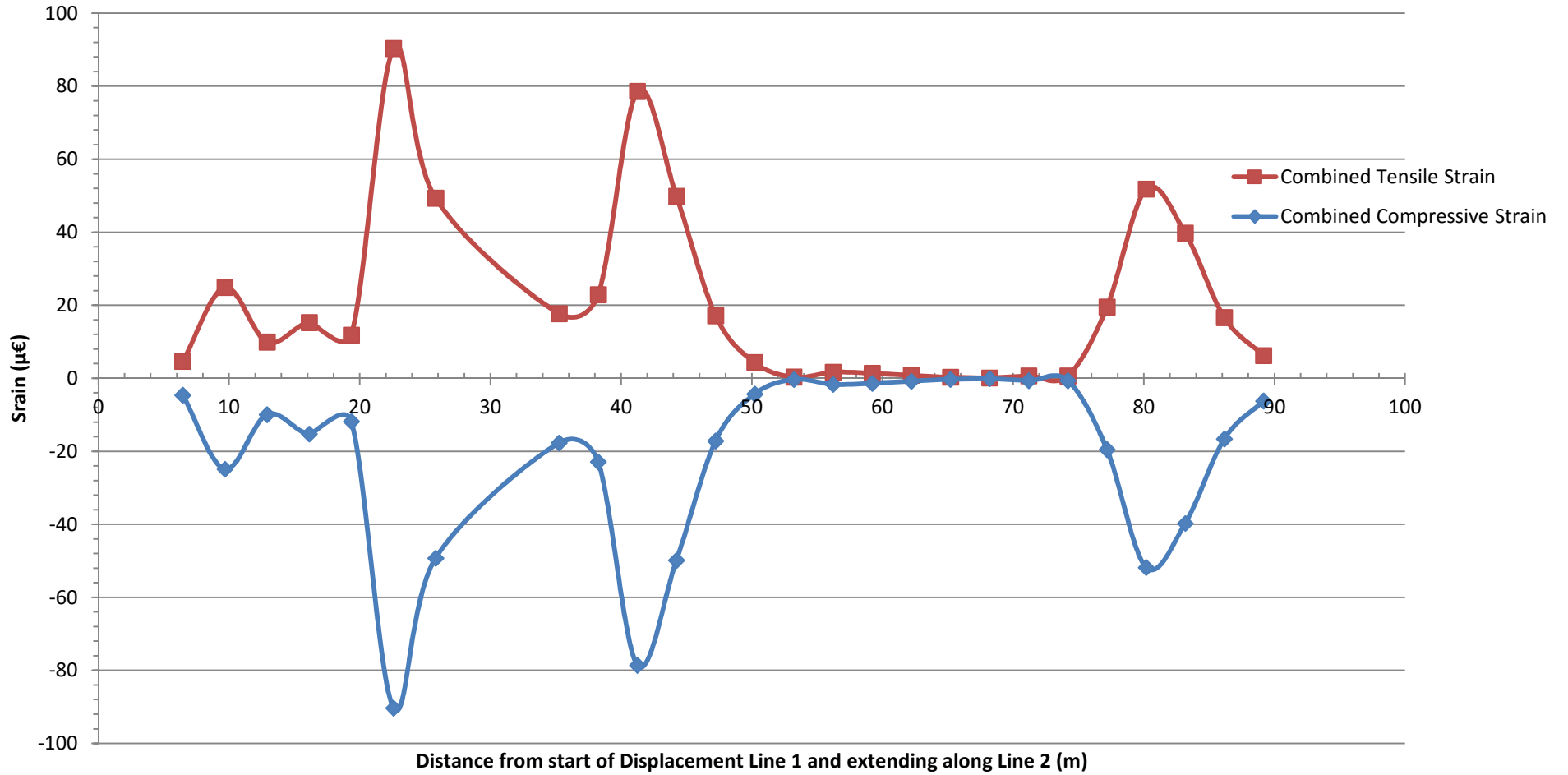
Case 2A-Flexural Strain Profile



Case 2A-Flexural Strain Profile



Case 2A-Combined Strain Profile



APPENDIX C

Case 3A-Figures and XDISP output



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
J12093		
Drq. Ref.		
Made by	Date	Checked
	15-Nov-2016	

Kidderpore
Case 3A

Utility Strain Calculation Options

Neglect beneficial contribution of axial strains : Yes

Displacement and Strain Results

Type/No.	Coordinates			Displacements			Angle of Line	
Name	Dist.	x	y	z	x	y	z	to x Axis
		Horizontal displacement along Line		Horizontal displacement perpendicular to Line				
		[m]	[m]	[m]	[mm]	[mm]	[mm]	[°]
Line 1	Line 1	26.60000	-9.40000	90.15000	0.0	0.0	0.92708	0.0
		3.2260	-6.28000	90.15000	0.0	0.0	1.4798	0.0
		6.4519	-3.16000	90.15000	-0.23708	0.019739	2.5898	0.07935
		9.6779	-0.04000	90.15000	-0.81280	-0.13246	3.6575	0.078498
		12.904	3.08000	90.15000	-0.92661	-0.15100	3.7661	0.089490
		16.130	6.20000	90.15000	-1.0404	-0.16955	4.2396	0.10048
		19.356	9.32000	90.15000	-1.1542	-0.18810	5.2614	0.11147
		22.582	12.44000	90.15000	-0.96665	-0.20212	5.6878	0.050233
		25.808	15.56000	90.15000	-0.63517	-0.31344	2.7350	-0.14169
		29.034	18.68000	90.15000	-0.81750	0.0	1.8392	0.20780
		32.260	21.80000	90.15000	-1.4076	0.42915	3.2635	0.77285
		35.486	24.92000	90.15000	-2.0315	0.74790	2.9689	0.85663
		38.712	28.04000	90.15000	-2.7125	0.0	3.3338	0.14664
		41.938	31.16000	90.15000	-3.4414	0.0	3.6588	0.14992
		45.164	34.28000	90.15000	-4.1750	0.0	3.9321	0.15320
		48.390	37.40000	90.15000	-4.9086	0.0	4.1616	0.15649
		51.616	40.52000	90.15000	-5.6422	0.0	4.3641	0.15977
		54.842	43.64000	90.15000	-6.3758	0.0	4.5550	0.16305
		58.068	46.76000	90.15000	-7.1094	0.0	4.7265	-0.19576
		61.294	49.88000	90.15000	-7.8430	-1.2747	4.3779	-1.2188
		64.520	53.00000	90.15000	-8.5766	-1.1691	3.7023	-1.1395
		67.746	56.12000	90.15000	-9.3102	-0.53315	2.8698	-0.52469
		70.972	59.24000	90.15000	-10.0438	0.0	0.8090	0.0
		74.198	62.36000	90.15000	-10.7774	0.0	0.021621	0.0
		77.424	65.48000	90.15000	-11.5110	0.0	-0.25528	0.0
		80.650	68.60000	90.15000	-12.2446	0.0	-0.34414	0.0
		83.876	71.72000	90.15000	-12.9782	0.0	-0.35599	0.0

* Result includes imported displacement(s).

Specific Utility Damage Results - Coordinates and Displacements

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates			Displacements				Displacements at (n-Lp)			Displacements at (n+Lp)							
	x	y	z	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular
perpendicular	[m]	[m]	[m]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]

Iteration: 1

6.45191	24.96000	-3.16000	90.15000	-0.23708	0.01974	2.58982	0.07935	0.22427	0.00000	0.00000	1.40574	0.00000	0.00000	-0.82804	-0.13494	3.67209	0.07997	
0.22427																		
12.90383	23.32000	3.08000	90.15000	-0.92661	-0.15100	3.76612	0.08949	0.93456	-0.73569	-0.11207	3.51455	0.07861	0.74002	-1.05566	-0.17203	4.37641	0.10195	
0.93456																		
19.35574	21.68000	9.32000	90.15000	-1.15423	-0.18810	5.26137	0.11147	1.16413	-1.02518	-0.16707	4.17615	0.09901	1.03397	-0.92226	-0.21703	5.29230	0.02453	
1.16413																		
25.80766	20.04000	15.56000	90.15000	-0.63517	-0.31344	2.73495	-0.14169	0.69398	-0.99178	-0.20024	5.63065	0.05843	1.01010	-0.89653	0.05747	2.02997	0.28347	
0.69398																		

Iteration: 2

9.67787	24.14000	-0.04000	90.15000	-0.81280	-0.13246	3.65754	0.07850	0.81977	-0.20533	0.01710	2.44115	0.06873	0.19424	-0.94185	-0.15349	3.82953	0.09096	
0.81977																		
16.12979	22.50000	6.20000	90.15000	-1.04042	-0.16955	4.23956	0.10048	1.04934	-0.91136	-0.14852	3.75158	0.08802	0.91918	-1.12911	-0.18997	5.31848	0.10327	
1.04934																		
22.58170	20.86000	12.44000	90.15000	-0.96665	-0.20212	5.68776	0.05023	0.98628	-1.13899	-0.18561	5.12452	0.11000	1.14876	-0.65959	-0.27146	2.61499	-0.09488	
0.98628																		

Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point	Coordinates			Displacements				Displacements at (n-Lp)			Displacements at (n+Lp)							
	x	y	z	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular
perpendicular	[m]	[m]	[m]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]

Iteration: 1

5.98971	18.07619	27.78095	90.15000	-2.95350	0.54237	4.79217	0.70124	2.91986	-1.89336	0.67732	3.03413	0.77868	1.85397	-3.03757	-0.12938	4.83190	0.03503	
2.91986																		
11.97942	17.75238	33.76190	90.15000	-2.66145	-0.21661	3.17182	-0.07242	2.66927	-3.10223	0.03868	5.19069	0.20633	3.09561	-2.60452	0.00000	2.83755	0.14080	
2.66927																		
17.96913	17.42857	39.74286	90.15000	-2.65179	0.00000	2.99776	0.14336	2.64791	-2.60666	-0.04796	2.87609	0.09302	2.60544	-2.72594	0.00000	3.40575	0.14737	
2.64791																		
23.95885	17.10476	45.72381	90.15000	-2.77321	0.00000	3.65883	0.14992	2.76916	-2.69906	0.00000	3.25937	0.14591	2.69511	-2.84737	0.00000	3.98293	0.15393	
2.76916																		
29.94856	16.78095	51.70476	90.15000	-2.89464	0.00000	4.16158	0.15649	2.89041	-2.82048	0.00000	3.87161	0.15248	2.81636	-2.96880	0.00000	4.40640	0.16050	
2.89041																		
35.93827	16.45714	57.68571	90.15000	-3.01607	0.00000	4.55504	0.16305	3.01166	-2.94191	0.00000	4.31928	0.15904	2.93761	-2.39337	-0.55248	4.64935	-0.42229	
3.01166																		
41.92798	16.13333	63.66667	90.15000	-1.27468	-1.28959	4.37791	-1.21880	1.34254	-2.77896	-0.26693	4.68857	-0.11631	2.78933	-0.43279	-1.02826	3.51797	-1.00336	
1.34254																		
47.91769	15.80952	69.64762	90.15000	-0.14205	-0.53315	2.86979	-0.52469	0.17066	-0.68358	-1.19576	3.85191	-1.15705	0.74723	0.00000	0.00000	0.62834	0.00000	
2.86979																		
0.17066																		
53.90740	15.48571	75.62857	90.15000	0.00000	0.00000	0.02162	0.00000	0.00000	-0.03145	-0.11805	1.25901	-0.11618	0.03779	0.00000	0.00000	-0.27496	0.00000	
0.00000																		

Iteration: 2

8.98457	17.91429	30.77143	90.15000	-3.14454	-0.10457	5.30403	0.06558	3.14559	-2.74934	0.58788	4.38845	0.73565	2.71354	-2.64587	-0.16865	3.08772	-0.02536	
3.14559																		
14.97428	17.59048	36.75238	90.15000	-2.59107	0.00000	2.79199	0.14008	2.58728	-2.76842	-0.19180	3.64395	-0.04186	2.77474	-2.66523	0.00000	3.07217	0.14408	
2.58728																		
20.96399	17.26667	42.73333	90.15000	-2.71250	0.00000	3.33378	0.14664	2.70853	-2.63834	0.00000	2.95220	0.14263	2.63448	-2.78666	0.00000	3.71934	0.15065	
2.70853																		



SOUTHERN TESTING LABORATORIES

Kidderpore
Case 3A

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked
	15-Nov-2016	

Unfactored		Factored		Tension		Compression		Total		Check		Total		Check		Curvature	
[m]	[m]	[m]	[m]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[m]	[Deg]
6.45191	24.96000	-3.16000	90.15000	12.232	2.4463	10.649	10.649	-10.649	-10.649	22.88115	13.09583	OK	-10.64949	-10.64949	OK	2.7853E+4	-
9.67787	24.14000	-0.04000	90.15000	1.5938	0.31875	30.580	30.580	-30.580	-30.580	32.17368	30.89867	OK	-30.57992	-30.57992	OK	9.7000E+3	-
12.90383	23.32000	3.08000	90.15000	3.4119	0.68239	10.399	10.399	-10.399	-10.399	13.81143	11.08188	OK	-10.39949	-10.39949	OK	2.8523E+4	-
16.12979	22.50000	6.20000	90.15000	3.4347	0.68694	15.630	15.630	-15.630	-15.630	19.06519	16.31741	OK	-15.63046	-15.63046	OK	1.8977E+4	-
19.35574	21.68000	9.32000	90.15000	-7.7629	-1.5526	18.910	18.910	-18.910	-18.910	18.91047	18.91047	OK	-26.67336	-20.46305	OK	1.5686E+4	-
22.58170	20.86000	12.44000	90.15000	-39.159	-7.8318	96.372	96.372	-96.372	-96.372	96.37179	96.37179	OK	-135.53085	-104.20360	OK	3.0779E+3	-
25.80766	20.04000	15.56000	90.15000	24.600	4.9200	59.672	59.672	-59.672	-59.672	84.27158	64.59163	OK	-59.67165	-59.67165	OK	4.9709E+3	-

Note: Tensile strains are +ve, compressive strains are -ve.
 Note: The peak flexural tensile strain orientation angle is measured with respect to the global z-axis by looking at the end point of the utility from the start point. Anti-clockwise is positive.
 Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point	Coordinates			Pipe Strain Check								Radius of Curvature	Check	Peak flexural tensile strain orientation angle (w.r.t global z-axis)			
x	y	z	Axial	Flexural		Tension		Compression		Radius of Curvature	Threshold	Limit					
[m]	[m]	[m]	[µe]	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	[m]	[µe]	[Deg]			
2.99486	18.23810	24.79048	90.15000	32.893	6.5786	70.864	70.864	-70.864	-70.864	103.75698	77.44266	OK	-70.86408	-70.86408	OK	4.1858E+3	-
5.98971	18.07619	27.78095	90.15000	-131.97	-26.395	49.256	49.256	-49.256	-49.256	49.25603	49.25603	OK	-181.22929	-75.65069	OK	6.0221E+3	-
8.98457	17.91429	30.77143	90.15000	-129.13	-25.825	90.473	90.473	-90.473	-90.473	90.47343	90.47343	OK	-219.60041	-116.29882	OK	3.2786E+3	-
11.97942	17.75238	33.76190	90.15000	12.529	2.5059	59.403	59.403	-59.403	-59.403	71.93228	61.90880	OK	-59.40293	-59.40293	OK	4.9934E+3	-
14.97428	17.59048	36.75238	90.15000	36.024	7.2049	19.933	19.933	-19.933	-19.933	55.95758	27.13801	OK	-19.93312	-19.93312	OK	1.4881E+4	-
17.96913	17.42857	39.74286	90.15000	1.1003	0.22005	4.3071	4.3071	-4.3071	-4.3071	5.40739	4.52717	OK	-4.30712	-4.30712	OK	6.8868E+4	-
20.96399	17.26667	42.73333	90.15000	1.1023	0.22045	0.36246	0.36246	-0.36246	-0.36246	1.46473	0.58292	OK	-0.36246	-0.36246	OK	8.1836E+5	-
23.95885	17.10476	45.72383	90.15000	1.1023	0.22023	1.7116	1.7116	-1.7116	-1.7116	2.81277	1.93184	OK	-1.71160	-1.71160	OK	1.7330E+5	-
26.95370	16.94286	48.71429	90.15000	1.0997	0.21994	1.4501	1.4501	-1.4501	-1.4501	2.54983	1.67007	OK	-1.45013	-1.45013	OK	2.0455E+5	-
29.94856	16.78095	51.70476	90.15000	1.0988	0.21976	0.88947	0.88947	-0.88947	-0.88947	1.98824	1.10922	OK	-0.88947	-0.88947	OK	3.3349E+5	-
32.94341	16.61905	54.69524	90.15000	1.0983	0.21967	0.38499	0.38499	-0.38499	-0.38499	1.48333	0.60466	OK	-0.38499	-0.38499	OK	7.7046E+5	-
35.93827	16.45714	57.68573	90.15000	-59.354	-11.871	11.467	11.467	-11.467	-11.467	11.46701	11.46701	OK	-70.82061	-23.33773	OK	2.5868E+4	-
38.93312	16.29524	60.67619	90.15000	-230.66	-46.133	40.181	40.181	-40.181	-40.181	40.18081	40.18081	OK	-270.84495	-86.31364	OK	7.3822E+3	-
41.92798	16.13333	63.66667	90.15000	-157.48	-31.496	23.150	23.150	-23.150	-23.150	23.14994	23.14994	OK	-180.63039	-54.64603	OK	1.2813E+4	-
44.92284	15.97143	66.65714	90.15000	115.93	23.187	12.908	12.908	-12.908	-12.908	12.84160	36.09438	OK	-12.90758	-12.90758	OK	2.2981E+4	-
47.91769	15.80952	69.64762	90.15000	190.36	38.073	41.631	41.631	-41.631	-41.631	231.99419	79.70339	OK	-41.63069	-41.63069	OK	7.1251E+3	-
50.91255	15.64762	72.63810	90.15000	87.712	17.542	43.022	43.022	-43.022	-43.022	130.73324	60.56388	OK	-43.02154	-43.02154	OK	6.8948E+3	-
53.90740	15.48571	75.62857	90.15000	0.015547	0.0031093	16.614	16.614	-16.614	-16.614	16.62966	16.61722	OK	-16.61411	-16.61411	OK	1.7854E+4	-
56.90226	15.32381	78.61905	90.15000	0.0018644	372.89E-6	6.2191	6.2191	-6.2191	-6.2191	6.22099	6.21950	OK	-6.21912	-6.21912	OK	4.7695E+4	-

Note: Tensile strains are +ve, compressive strains are -ve.
 Note: The peak flexural tensile strain orientation angle is measured with respect to the global z-axis by looking at the end point of the utility from the start point. Anti-clockwise is positive.

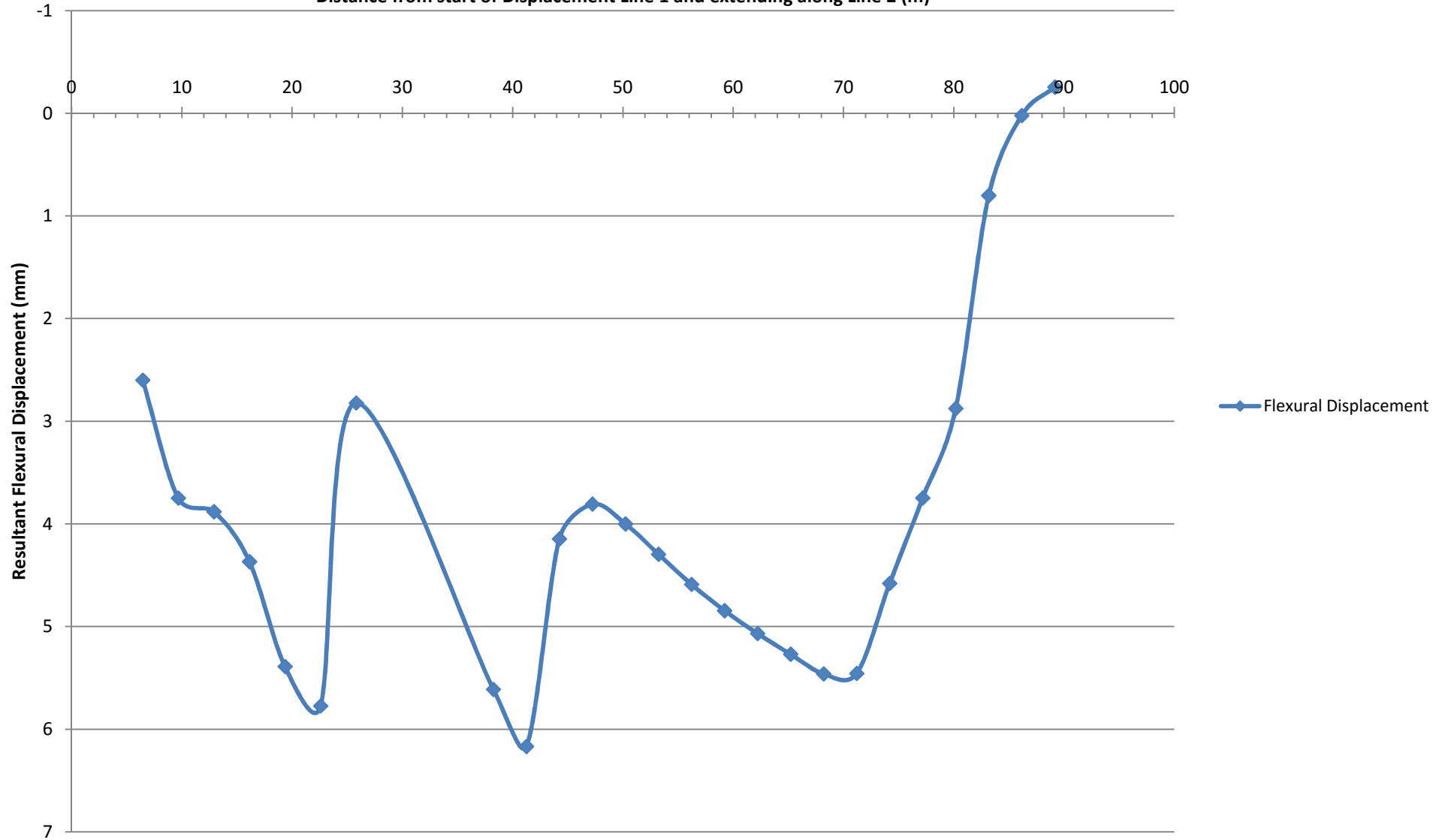
Specific Utility Damage Results - Maximum Values

Name	Jointed	Displacement Data Type	Displacement Data	Maximum Pullout		Maximum Rotation		Maximum Strain		Minimum Radius of Curvature		Maximum Displacement					
				(Factored)		(Factored)		(Factored)									
				Location	Value	Location	Value	Location	Value	Location	Value	Location	Value	Location	Value		
Cast Iron Main	Yes	Displacement	Line 1	22.582	0.58998	22.582	0.05698	22.58170	96.37179	22.58170	-104.20360	22.582	3.0779E+3	22.582	5.6878	32.259	0.77275
Cast Iron Main	Yes	Displacement	Line 2	47.918	0.79311	8.9846	0.05116	8.98457	90.47343	8.98457	-116.29882	8.9846	3.2786E+3	8.9846	5.3040	41.928	-1.2188

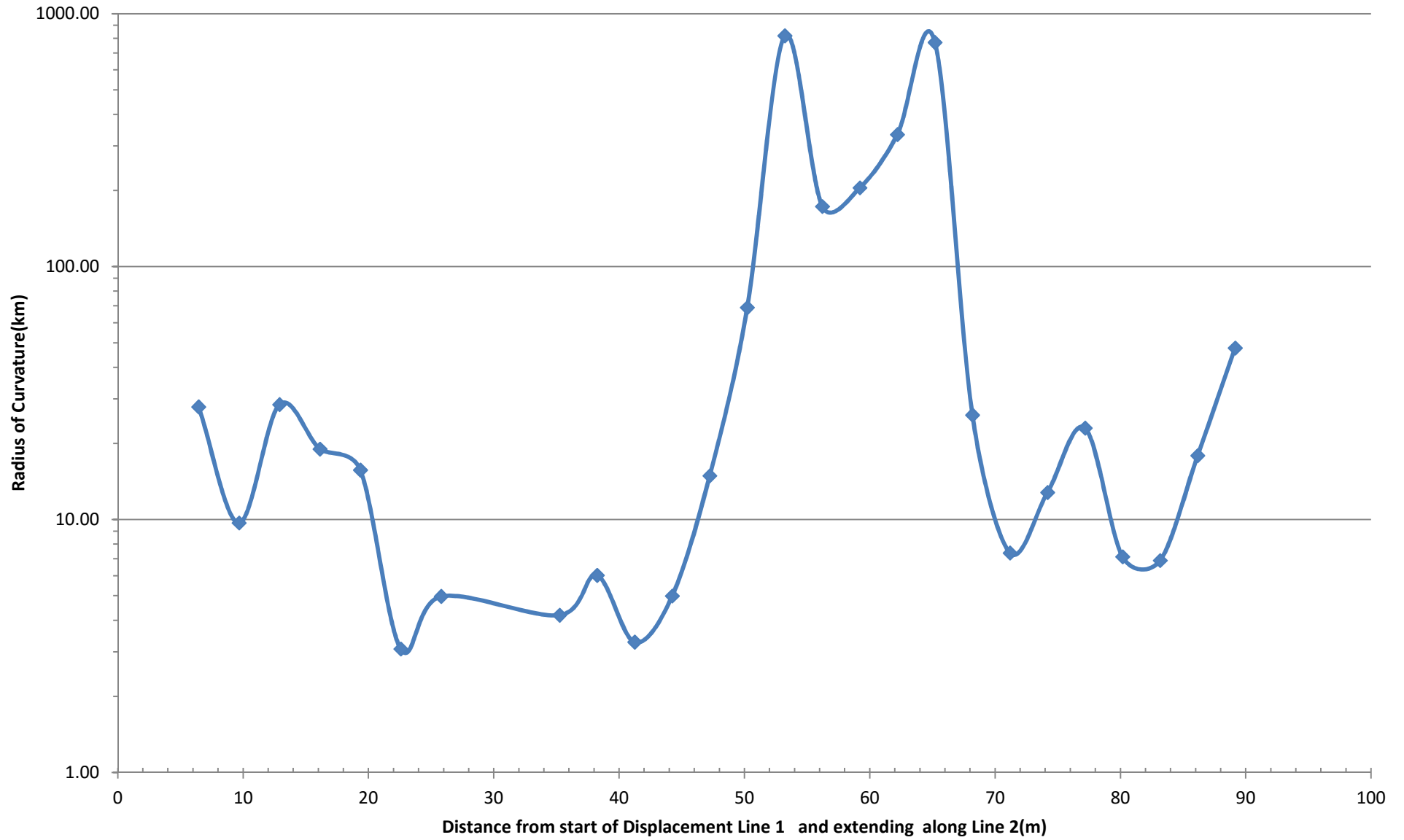
Note: * symbol indicates that the value has exceeded one of (or both) the limiting criteria

Case 3A-Resultant Flexural Displacement Profile

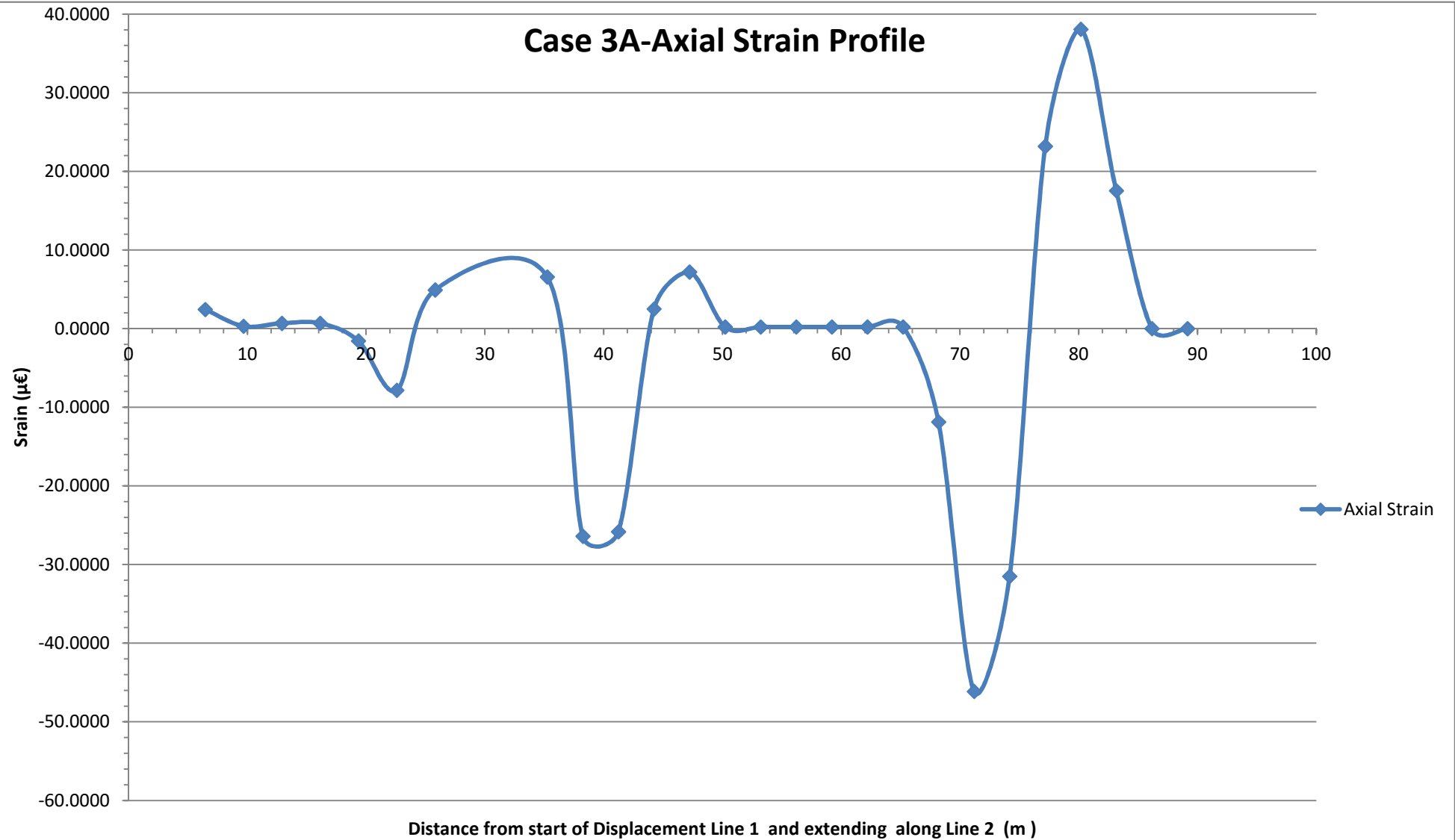
Distance from start of Displacement Line 1 and extending along Line 2 (m)



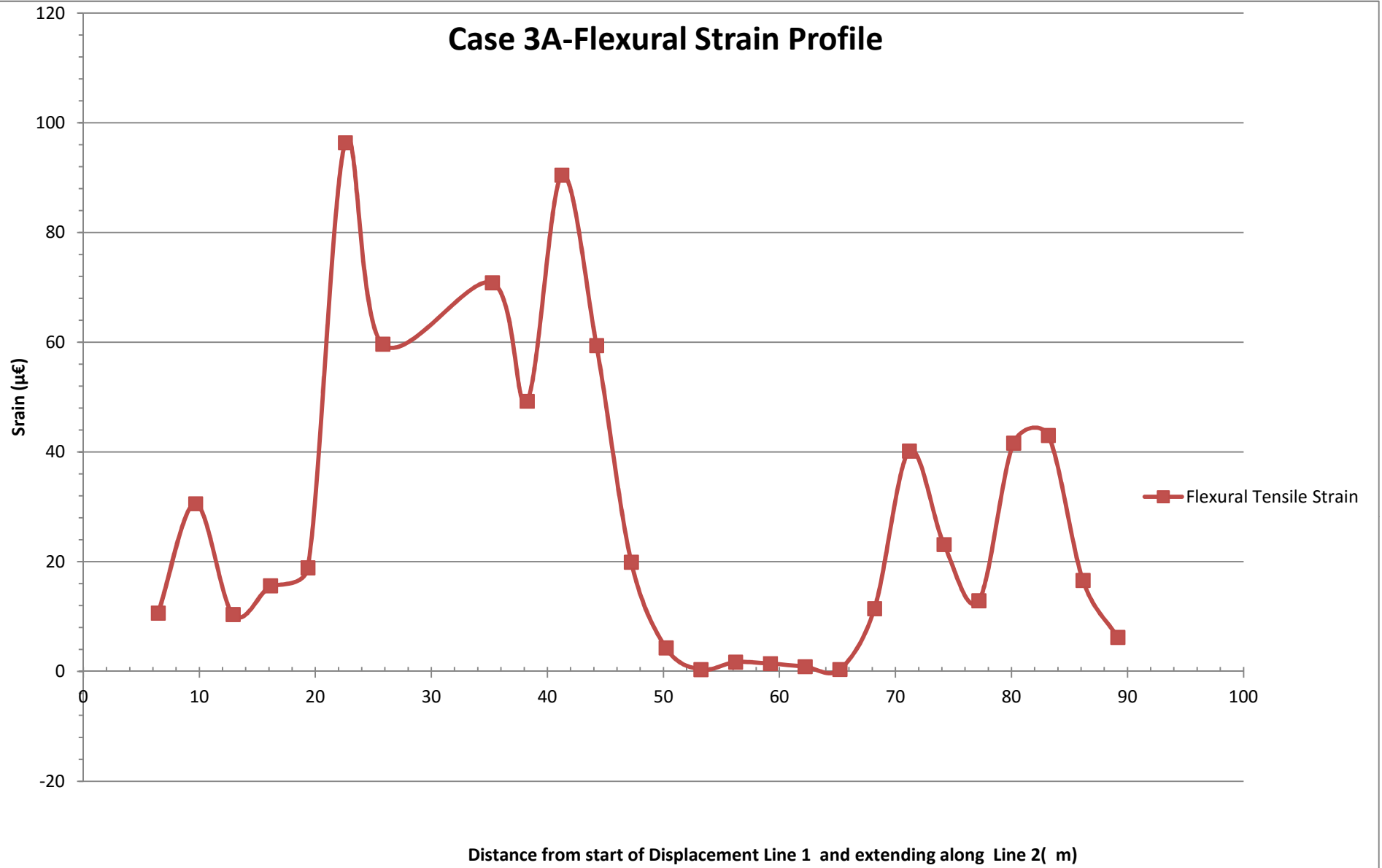
Case 3A-Radius of Curvature Profile



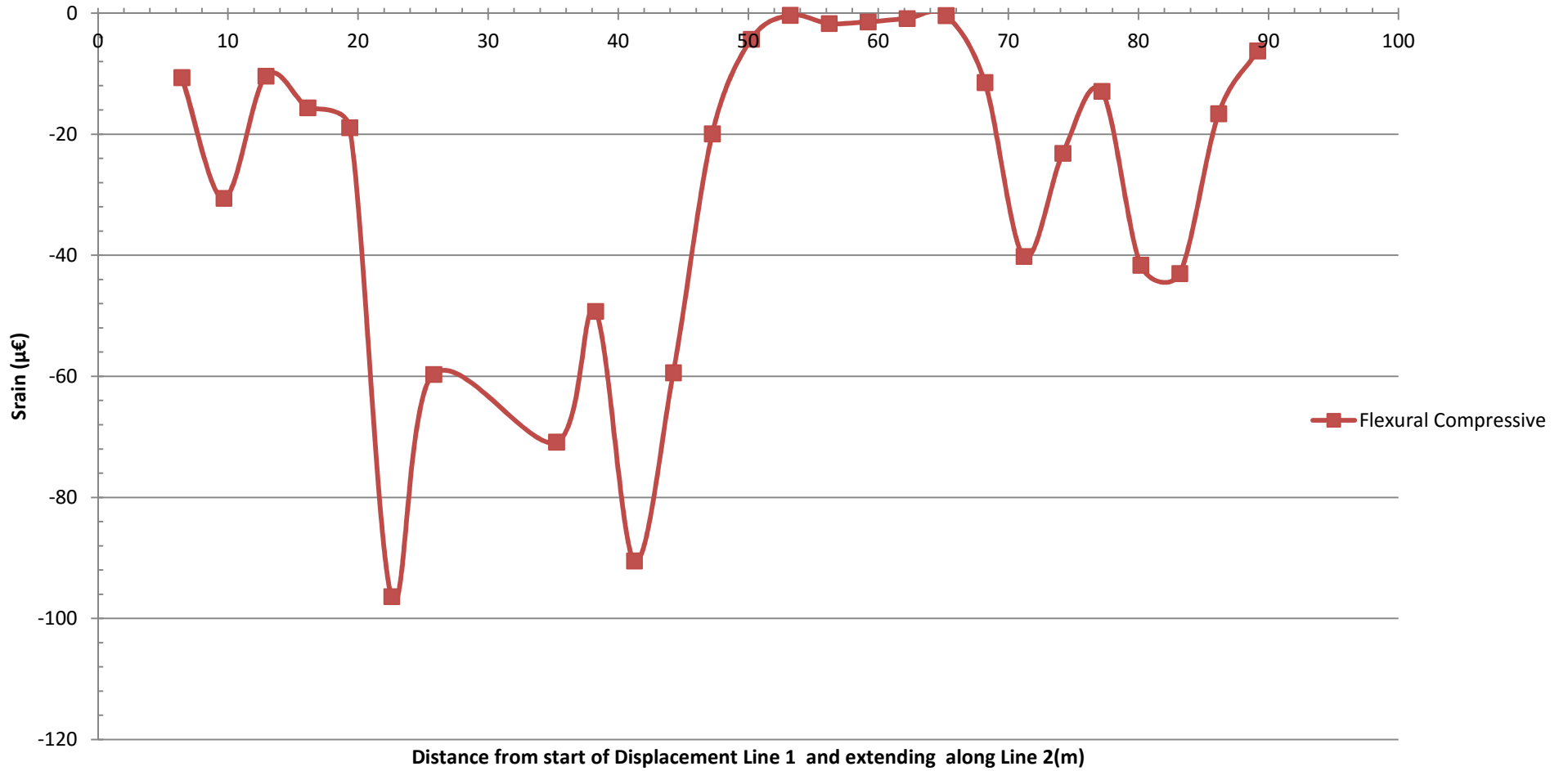
Case 3A-Axial Strain Profile



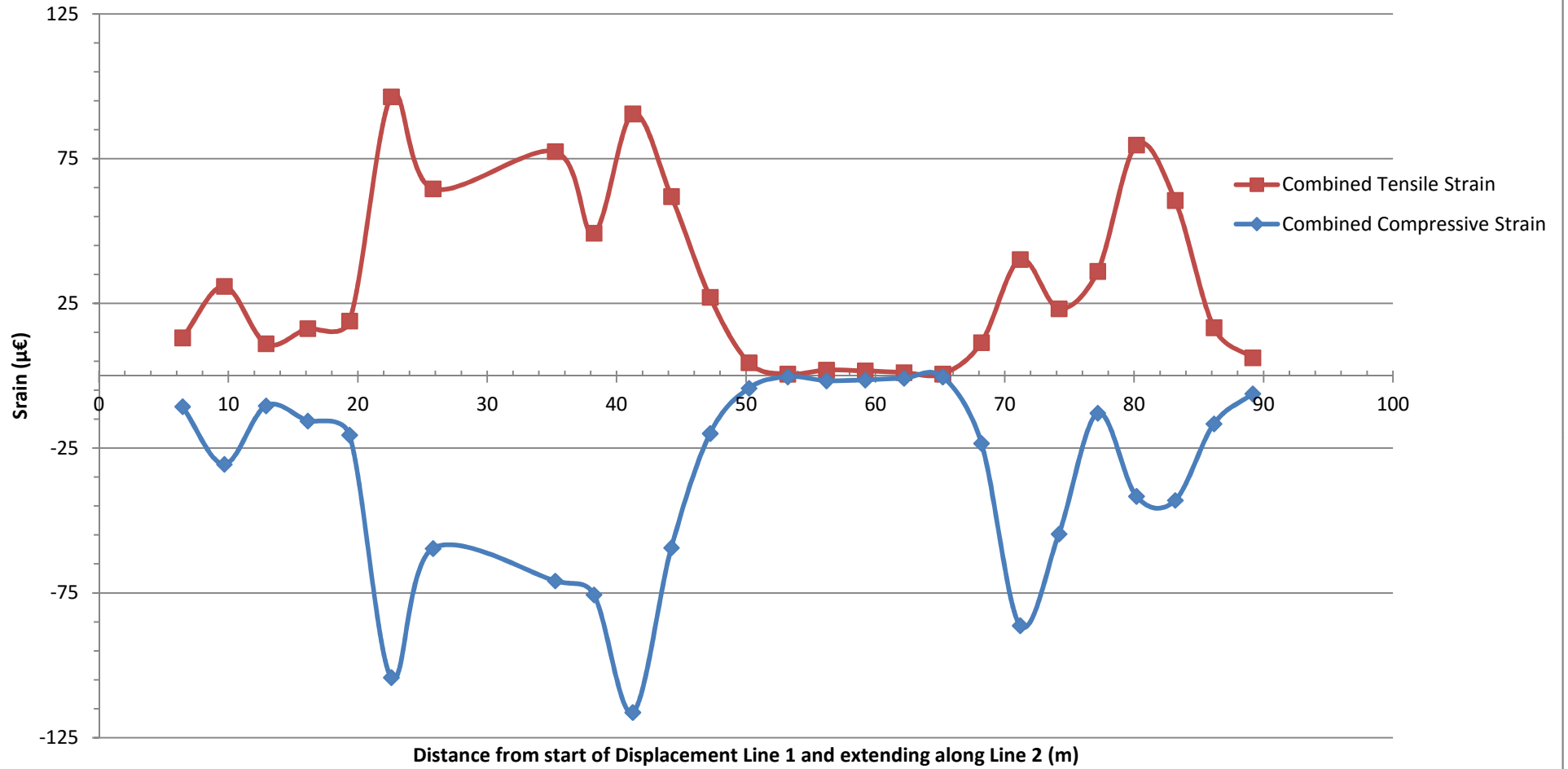
Case 3A-Flexural Strain Profile



Case 3A-Flexural Strain Profile



Case 3A-Combined Strain Profile



APPENDIX D

Case 4A-Figures and XDISP and PDISP Outputs



**SOUTHERN TESTING
LABORATORIES**

Kidderpore East Side
CASE 4- Undrained Movements

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Analysis Options

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: 0.00 [m OD]
Displacements at area centroids calculated.

Soil Profiles Soil Profile 1

Layer	Level at top	Number of intermediate displacement levels	Youngs Modulus	Poissons ratio	Non-linear curve
	[mOD]		Top [kN/m ²]	Btm [kN/m ²]	
1	92.000	7	21250.	21250.	0.50000 None
2	85.000	90	36550.	181050.	0.50000 None

Soil Zones

Zone	Name	X coordinates min	X coordinates max	Y coordinates min	Y coordinates max	Profile
1	1	-30.000	30.000	-15.000	90.000	Soil Profile 1

Load Data

Load ref.	Name	Shape	Orientation of Plane	Centre of load (Global)			Load position local x from	Angle of local x from	Width x Radius	Length y	Polygon Coordinates	Rectangle of tolerance rectangles	Load value			
				X	Y	Z (level)							Number of rectangles	Normal (local z)	Tangential (local x)	Tangential (local y)
1	Unload A	Polygonal	Horizontal	N/A	N/A	89.000	N/A	N/A	N/A	(0,0) (6.3,0) (6.3,-1.2) (20.2,-1.2) (17.2,9.4) (14.7,9.4) (14.7,35.4) (12.5,35.4) (12.5,40.7) (-1.88,38.5) (-1.88,26.9) (0,26.9) (0,0)	10.000	10	-48.000	N/A	N/A	
2	Unload B	Polygonal	Horizontal	N/A	N/A	90.100	N/A	N/A	N/A	(-5.34,38) (3.99,39.5) (3.99,71.8) (-16.4,59.9) (-5.34,59.9) (-5.34,38)	10.000	2	-48.000	N/A	N/A	
3	Load C (Proposed)	Polygonal	Horizontal	N/A	N/A	89.050	N/A	N/A	N/A	(-3,0) (12.2,0) (12.2,-2) (20.2,-2) (18,11.5) (15,11.5) (15,30.6) (-3,30.6) (-3,24) (0,24) (0,10.2) (-3,10.2) (-3,0)	10.000	5	45.000	N/A	N/A	
4	Load D (Proposed)	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(0,30.6) (12,30.6) (12,54.2) (13,4,54.2) (13,4,60) (5,4,60) (5,4,57.8) (-1,2,57.8) (-1,2,53.8) (-10,4,53.8) (-10,4,43.6) (-8,43.6) (-8,33.6) (-2,2,33.6) (-2,2,30.6) (0,30.6)	10.000	6	60.000	N/A	N/A	
5	Load E(Proposed)	Polygonal	Horizontal	N/A	N/A	86.795	N/A	N/A	N/A	(-13,53.8) (-1,2,53.8) (-1,2,57.8) (5,4,57.8) (5,4,71.8) (-13,71.8) (-13,53.8)	10.000	2	60.000	N/A	N/A	
6	Load F (Proposed)	Polygonal	Horizontal	N/A	N/A	91.125	N/A	N/A	N/A	(5,4,60) (13,60) (13,69) (5,4,69) (5,4,60)	10.000	1	60.000	N/A	N/A	
7	Load G (Unload)	Polygonal	Horizontal	N/A	N/A	89.050	N/A	N/A	N/A	(-3,0) (12,2,0) (12,2,-2) (20,2,-2) (18,11,5) (15,11,5) (15,30,6) (-3,30,6) (-3,24) (0,24) (0,10,2) (-3,10,2) (-3,0)	10.000	5	-10.400	N/A	N/A	
8	Load H (Unload)	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(-3,30.6) (15,30.6) (15,35.4) (12,35.4) (12,40) (-3,38.5) (-3,30.6)	10.000	2	-91.700	N/A	N/A	
9	Load I (Unload)	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(-8,33.6) (-3,33.6) (-3,38.5) (5,4,39.5) (5,4,57.8) (-1,2,57.8) (-1,2,53.6) (-10,4,53.6) (-10,4,43.6) (-8,43.6) (-8,33.6)	10.000	4	-52.800	N/A	N/A	
10	Load J (Unload) minus D	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(8,5,39.5) (12,40) (12,54,2) (13,4,54,2) (13,4,60) (8,5,60) (8,5,39,5)	10.000	2	-128.20	N/A	N/A	
11	Load K (Unload)	Polygonal	Horizontal	N/A	N/A	86.795	N/A	N/A	N/A	(-13,53.8) (-1,2,53.8) (-1,2,57.8) (5,4,57.8) (5,4,71.8) (-13,71.8) (-13,53.8)	10.000	2	-76.500	N/A	N/A	
12	Load L (Unload)	Polygonal	Horizontal	N/A	N/A	91.125	N/A	N/A	N/A	(5,4,60) (13,4,60) (13,4,69) (5,4,69) (5,4,60)	10.000	1	-5.5000	N/A	N/A	

Polygonal Loads' Rectangles

No.	Centre of load X	Centre of load Y	Angle of local x from global X [Degrees]	Width x local x [m]	Depth y [m]
Load 1 : Unload A (Edge 1 optimal)					
1	3.1500	19.628	0.0	6.3000	39.256
2	9.4170	19.498	0.0	6.2340	41.397
3	13.617	17.100	0.0	2.1660	36.600
4	15.965	4.1000	0.0	2.5300	10.600
5	17.527	3.5700	0.0	0.59400	9.5400
6	18.121	2.5100	0.0	0.59400	7.4200
7	18.715	1.4500	0.0	0.59400	5.3000
8	19.309	0.39000	0.0	0.59400	3.1800
9	19.903	-0.67000	0.0	0.59400	1.0600
10	-0.94000	32.771	0.0	1.8800	11.741
Load 2 : Unload B (Edge 3 optimal)					
1	-0.67650	55.275	-180.00	9.3330	33.050
2	-10.863	65.842	-180.00	11.039	11.915
Load 3 : Load C (Proposed) (Edge 2 optimal)					
1	16.119	-1.0000	-90.000	2.0000	7.8370
2	6.0000	27.300	-90.000	6.6000	18.000
3	7.5000	17.750	-90.000	12.500	15.000
4	9.0530	10.850	-90.000	1.3000	18.106
5	8.0215	5.1000	-90.000	10.200	22.043
Load 4 : Load D (Proposed) (Edge 2 optimal)					
1	4.9000	32.100	90.000	3.0000	14.200
2	2.0000	38.600	90.000	10.000	20.000
3	0.80000	48.700	90.000	10.200	22.400
4	5.4000	54.000	90.000	0.40000	13.200
5	6.1000	56.000	90.000	3.6000	14.600
6	9.4000	58.900	90.000	2.2000	8.0000
Load 5 : Load E(Proposed) (Edge 1 optimal)					
1	-7.1000	62.800	0.0	11.800	18.000
2	2.1000	64.800	0.0	6.6000	14.000
Load 6 : Load F (Proposed) (Edge 1 optimal)					
1	9.2000	64.500	0.0	7.6000	9.0000
Load 7 : Load G (Unload) (Edge 2 optimal)					
1	16.119	-1.0000	-90.000	2.0000	7.8370
2	6.0000	27.300	-90.000	6.6000	18.000
3	7.5000	17.750	-90.000	12.500	15.000
4	9.0530	10.850	-90.000	1.3000	18.106
5	8.0215	5.1000	-90.000	10.200	22.043
Load 8 : Load H (Unload) (Edge 1 optimal)					



SOUTHERN TESTING LABORATORIES

Kidderpore East Side
CASE 4- Undrained Movements

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

No.	Centre of load X	Centre of load Y	Angle of local x from global X	Width x	Depth y
1	4.5175	34.925	0.0	15.035	8.6500
2	13.517	33.000	0.0	2.9650	4.8000
Load 9 : Load I (Unload) (Edge 1 optimal)					
1	-5.5000	43.600	0.0	5.0000	20.000
2	-2.1000	46.104	0.0	1.8000	14.933
3	2.1000	48.454	0.0	6.6000	18.693
4	-9.2000	48.600	0.0	2.4000	10.000
Load 10 : Load J (Unload) minus D (Edge 3 optimal)					
1	10.250	49.875	0.0	3.5000	20.250
2	12.700	57.100	0.0	1.4000	5.8000
Load 11 : Load K (Unload) (Edge 1 optimal)					
1	-7.1000	62.800	0.0	11.800	18.000
2	2.1000	64.800	0.0	6.6000	14.000
Load 12 : Load L (Unload) (Edge 1 optimal)					
1	9.4000	64.500	0.0	8.0000	9.0000

Displacement Data

Ref.	Type	Name	Direction of Extrusion	Line/Line for extrusion	First point X [m]	Second point X [m]	Z(level) [m]	No. of intrvl across	Extrusion Depth [m]	No. of intrvl along	Calculate	Show Detailed results			
1	Grid	Grid 1	Global Y		-20.000	-10.000	89.0000	30.000	N/A	89.0000	40	95.000	80	Yes	No
2	Line	Line 1	N/A		26.600	-9.4000	90.150	18.400	21.800	90.150	10	N/A	N/A	Yes	No
3	Line	Line 2	N/A		18.400	21.800	90.150	15.000	84.600	90.150	21	N/A	N/A	Yes	No

RESULTS FOR GRIDS

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Horizontal rigid boundary level: 0.00 [m OD]

The maximum displacement difference between Boussinesq method (-25.679mm) and Mindlin method (-18.712mm) occurs at point X=12.500m Y=33.938m Level 89.000mOD and is 6.9665mm

Name	X [m]	Location Y [m]	Z[level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
Unload A	7.68414	18.6564	89.00000	-6.1876	88.600	-13.401	31.616	-202.03E-6
Unload B	-3.74626	58.43207	90.10000	-19.984	89.675	-47.833	-104.78	-911.15E-6
Load C	7.69615	13.92689	89.05000	-5.5397	88.645	-13.400	-31.521	-204.22E-6
(Proposed) Load D	2.38983	44.79169	87.98500	-11.971	87.488	-31.395	-47.836	-0.0010906
(Proposed) Load E	-4.31102	63.40630	86.79500	-18.066	86.346	-60.694	-107.75	-0.0017490
(Proposed) Load F	9.20000	64.50000	91.12500	8.9583	90.688	54.449	118.25	0.0010605
Load G (Unload)	7.69615	13.92689	89.05000	-5.5397	88.645	-13.400	-31.521	-204.22E-6
Load H (Unload)	5.60108	34.74489	87.98500	-22.558	87.488	-79.502	-163.82	-0.0017574
Load I (Unload)	-2.08230	46.46584	87.98500	-13.072	87.488	-37.117	-57.836	-0.0012592
Load J (Unload) minus D	10.49538	50.61721	87.98500	-12.998	87.488	-67.666	-133.90	-0.0016259
Load K (Unload)	-4.31102	63.40630	86.79500	-18.066	86.346	-60.694	-107.75	-0.0017490
Load L (Unload)	9.40000	64.50000	91.12500	9.0488	90.688	54.449	118.25	0.0010611
Grid 1	-20.00000	-10.00000	89.00000	-0.10676	88.600	-10.183E-6	-0.038537	0.0
	-20.00000	-0.81250	89.00000	-0.11839	88.600	-10.897E-6	-0.040288	0.0
	-20.00000	-7.62500	89.00000	-0.13073	88.600	-11.706E-6	-0.042153	0.0
	-20.00000	-6.43750	89.00000	-0.14382	88.600	-12.647E-6	-0.044155	1.0380E-6
	-20.00000	-5.25000	89.00000	-0.15773	88.600	-13.776E-6	-0.046327	1.0891E-6
	-20.00000	-4.06250	89.00000	-0.17253	88.600	-15.164E-6	-0.048707	1.1450E-6
	-20.00000	-2.87500	89.00000	-0.18832	88.600	-16.903E-6	-0.051344	1.2069E-6
	-20.00000	-1.68750	89.00000	-0.20516	88.600	-19.106E-6	-0.054291	1.2761E-6
	-20.00000	-0.50000	89.00000	-0.22316	88.600	-21.907E-6	-0.057610	1.3540E-6
	-20.00000	0.68750	89.00000	-0.24240	88.600	-25.457E-6	-0.061364	1.4421E-6
	-20.00000	1.87500	89.00000	-0.26298	88.600	-29.919E-6	-0.065617	1.5418E-6
	-20.00000	3.06250	89.00000	-0.28497	88.600	-35.469E-6	-0.070432	1.6547E-6
	-20.00000	4.25000	89.00000	-0.30844	88.600	-42.290E-6	-0.075865	1.7821E-6
	-20.00000	5.43750	89.00000	-0.33343	88.600	-50.570E-6	-0.081966	1.9250E-6
	-20.00000	6.62500	89.00000	-0.35999	88.600	-60.506E-6	-0.088775	2.0846E-6
	-20.00000	7.81250	89.00000	-0.38812	88.600	-72.309E-6	-0.096326	2.2614E-6
	-20.00000	9.00000	89.00000	-0.41782	88.600	-86.213E-6	-0.104665	2.4562E-6
	-20.00000	10.18750	89.00000	-0.44907	88.600	-102.49E-6	-0.11376	2.6695E-6
	-20.00000	11.37500	89.00000	-0.48185	88.600	-121.46E-6	-0.12369	2.9019E-6
	-20.00000	12.56250	89.00000	-0.51613	88.600	-143.54E-6	-0.13448	3.1540E-6
	-20.00000	13.75000	89.00000	-0.55186	88.600	-169.20E-6	-0.14615	3.4269E-6
	-20.00000	14.93750	89.00000	-0.58901	88.600	-199.08E-6	-0.15978	3.7219E-6
	-20.00000	16.12500	89.00000	-0.62756	88.600	-233.93E-6	-0.17242	4.0405E-6
	-20.00000	17.31250	89.00000	-0.66747	88.600	-274.70E-6	-0.18719	4.3851E-6
	-20.00000	18.50000	89.00000	-0.70872	88.600	-322.53E-6	-0.20319	4.7582E-6
	-20.00000	19.68750	89.00000	-0.75126	88.600	-378.80E-6	-0.22056	5.1629E-6
	-20.00000	20.87500	89.00000	-0.79506	88.600	-445.14E-6	-0.23945	5.6027E-6
	-20.00000	22.06250	89.00000	-0.84007	88.600	-523.49E-6	-0.26003	6.0815E-6
	-20.00000	23.25000	89.00000	-0.88620	88.600	-616.08E-6	-0.28248	6.6032E-6
	-20.00000	24.43750	89.00000	-0.93335	88.600	-725.49E-6	-0.30699	7.1721E-6
	-20.00000	25.62500	89.00000	-0.98140	88.600	-854.61E-6	-0.33373	7.7921E-6
	-20.00000	26.81250	89.00000	-1.0302	88.600	-0.0010066	-0.36287	8.4671E-6
	-20.00000	28.00000	89.00000	-1.0796	88.600	-0.0011848	-0.39457	9.2003E-6
	-20.00000	29.18750	89.00000	-1.1294	88.600	-0.0013928	-0.42895	9.9946E-6
	-20.00000	30.37500	89.00000	-1.1794	88.600	-0.0016337	-0.46611	10.852E-6
	-20.00000	31.56250	89.00000	-1.2295	88.600	-0.0019105	-0.50609	11.773E-6
	-20.00000	32.75000	89.00000	-1.2796	88.600	-0.0022252	-0.54891	12.758E-6
	-20.00000	33.93750	89.00000	-1.3297	88.600	-0.0025789	-0.59450	13.806E-6
	-20.00000	35.12500	89.00000	-1.3797	88.600	-0.0029711	-0.64276	14.914E-6
	-20.00000	36.31250	89.00000	-1.4298	88.600	-0.0034000	-0.69356	16.079E-6
	-20.00000	37.50000	89.00000	-1.4802	88.600	-0.0038628	-0.74673	17.297E-6
	-20.00000	38.68750	89.00000	-1.5312	88.600	-0.0043655	-0.80216	18.567E-6
	-20.00000	39.87500	89.00000	-1.5833	88.600	-0.0048794	-0.85979	19.886E-6
	-20.00000	41.06250	89.00000	-1.6368	88.600	-0.0054328	-0.91976	21.258E-6
	-20.00000	42.25000	89.00000	-1.6927	88.600	-0.0060241	-0.98243	22.691E-6
	-20.00000	43.43750	89.00000	-1.7517	88.600	-0.0066694	-1.0485	24.200E-6
	-20.00000	44.62500	89.00000	-1.8148	88.600	-0.0073981	-1.1192	25.811E-6
	-20.00000	45.81250	89.00000	-1.8831	88.600	-0.0082588	-1.1962	27.563E-6
	-20.00000	47.00000	89.00000	-1.9579	88.600	-0.0093288	-1.2821	29.507E-6
	-20.00000	48.18750	89.00000	-2.0404	88.600	-0.010731	-1.3803	31.721E-6
	-20.00000	49.37500	89.00000	-2.1320	88.600	-0.012463	-1.4959	34.304E-6
	-20.00000	50.56250	89.00000	-2.2325	88.600	-0.014546	-1.6357	37.396E-6
	-20.00000	51.75000	89.00000	-2.3481	88.600	-0.016927	-1.8090	41.179E-6
	-20.00000	52.93750	89.00000	-2.4755	88.600	-0.020612	-2.0293	45.902E-6
	-20.00000	54.12500	89.00000	-2.6178	88.600	-0.025673	-2.3150	51.880E-6
	-20.00000	55.31250	89.00000	-2.7770	88.600	-0.032461	-2.6915	59.493E-6
	-20.00000	56.50000	89.00000	-2.9550	88.600	-0.040841	-3.1904	69.998E-6
	-20.00000	57.68750	89.00000	-3.1521	88.600	-0.051340	-3.8419	80.881E-6
	-20.00000	58.87500	89.00000	-3.3638	88.600	-0.21222	-4.6488	94.403E-6
	-20.00000	60.06250	89.00000	-3.5757	88.600	-0.30994	-5.5447	108.58E-6
	-20.00000	61.25000	89.00000	-3.7648	88.600	-0.40285	-6.3927	121.98E-6
	-20.00000	62.43750	89.00000	-3.9096	88.600	-0.50696	-7.0590	133.16E-6
	-20.00000	63.62500	89.00000	-3.9987	88.600	-0.50959	-7.5252	141.09E-6
	-20.00000	64.81250	89.00000	-4.0289	88.600	-0.52885	-7.7653	145.38E-6
	-20.00000	66.00000	89.00000	-4.0004	88.600	-0.53337	-7.8046	145.99E-6
	-20.00000	67.18750	89.00000	-3.9138	88.600	-0.52470	-7.6486	142.93E-6
	-20.00000	68.37500	89.00000	-3.7695	88.600	-0.50017	-7.2889	136.20E-6
	-20.00000	69.56250	89.00000	-3.5690	88.600	-0.45329	-6.7107	125.90E-6
	-20.00000	70.75000	89.00000	-3.3185	88.600	-0.37791	-5.9201	112.62E-6
	-20.00000	71.93750	89.00000	-3.0337	88.600	-0.28045	-4.9865	97.534E-6
	-20.00000	73.12500	89.00000	-2.7389	88.600	-0.18574	-4.0	



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by Date Checked

Kidderpore East Side CASE 4- Undrained Movements

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 100 rows of numerical data.



SOUTHERN TESTING LABORATORIES

Table with Job No. (J12093), Sheet No., Rev., Drg. Ref., Made by, Date, Checked

Kidderpore East Side CASE 4- Undrained Movements

Main data table with columns: Name, Location (X, Y, Z), Calc Level, Vert Stress, Sum Princ, Vert Strain. Contains multiple rows of numerical data.



SOUTHERN TESTING LABORATORIES

Kidderpore East Side
CASE 4- Undrained Movements

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-2.50000	75.50000	89.00000	-4.5766	88.600	-0.49708	-7.8161	148.82E-6	
-2.50000	76.68750	89.00000	-3.7411	88.600	-0.21202	-5.1734	106.76E-6	
-2.50000	77.87500	89.00000	-3.1266	88.600	-0.10251	-3.6243	78.041E-6	
-2.50000	79.06250	89.00000	-2.6539	88.600	-0.054039	-2.6484	58.502E-6	
-2.50000	80.25000	89.00000	-2.2786	88.600	-0.030344	-2.0000	44.916E-6	
-2.50000	81.43750	89.00000	-1.9737	88.600	-0.017882	-1.5508	35.226E-6	
-2.50000	82.62500	89.00000	-1.7215	88.600	-0.010950	-1.2290	28.146E-6	
-2.50000	83.81250	89.00000	-1.5101	88.600	-0.0069191	-0.99220	22.857E-6	
-2.50000	85.00000	89.00000	-1.3307	88.600	-0.0044882	-0.81374	18.830E-6	
-1.25000	-10.00000	89.00000	-0.32301	88.600	75.414E-6	-0.054480	1.2872E-6	
-1.25000	-2.87500	89.00000	-0.35633	88.600	139.73E-6	-0.051615	1.2213E-6	
-1.25000	-7.62500	89.00000	-0.39012	88.600	271.69E-6	-0.042182	1.0117E-6	
-1.25000	-6.43750	89.00000	-0.42213	88.600	568.85E-6	-0.018822	0.0	
-1.25000	-5.25000	89.00000	-0.44752	88.600	0.0013313	0.035897	0.0	
-1.25000	-4.06250	89.00000	-0.45516	88.600	0.0037050	0.16922	-1.7200E-6	
-1.25000	-2.87500	89.00000	-0.41598	88.600	0.013812	0.53958	-11.721E-6	
-1.25000	-1.68750	89.00000	-0.24080	88.600	0.090616	1.9090	-38.521E-6	
-1.25000	-0.50000	89.00000	0.43061	88.600	2.4646	11.769	-102.95E-6	
-1.25000	0.68750	89.00000	2.7025	88.600	32.957	56.570	995.36E-6	
-1.25000	1.87500	89.00000	3.2208	88.600	34.124	63.263	920.18E-6	
-1.25000	3.06250	89.00000	3.2342	88.600	34.766	64.316	899.10E-6	
-1.25000	4.25000	89.00000	3.3132	88.600	34.183	64.568	893.70E-6	
-1.25000	5.43750	89.00000	3.2213	88.600	34.184	64.561	893.91E-6	
-1.25000	6.62500	89.00000	3.0620	88.600	34.181	64.339	898.89E-6	
-1.25000	7.81250	89.00000	2.7922	88.600	34.160	63.632	914.07E-6	
-1.25000	9.00000	89.00000	2.4543	88.600	32.919	60.666	966.83E-6	
-1.25000	10.18750	89.00000	0.45577	88.600	17.702	32.112	494.00E-6	
-1.25000	11.37500	89.00000	-1.4145	88.600	0.28481	2.2905	-33.791E-6	
-1.25000	12.56250	89.00000	-1.9834	88.600	0.026850	-0.80777	20.902E-6	
-1.25000	13.75000	89.00000	-2.2946	88.600	0.0048996	-1.5717	37.328E-6	
-1.25000	14.93750	89.00000	-2.5143	88.600	655.69E-6	-1.8700	84.047E-6	
-1.25000	16.12500	89.00000	-2.6962	88.600	-580.45E-6	-2.0191	47.467E-6	
-1.25000	17.31250	89.00000	-2.8610	88.600	-974.59E-6	-2.1013	49.374E-6	
-1.25000	18.50000	89.00000	-3.0169	88.600	-840.03E-6	-2.1353	50.182E-6	
-1.25000	19.68750	89.00000	-3.1633	88.600	444.77E-6	-2.0987	49.413E-6	
-1.25000	20.87500	89.00000	-3.2845	88.600	0.0068079	-1.8800	44.716E-6	
-1.25000	22.06250	89.00000	-3.3203	88.600	0.051832	-0.95606	26.154E-6	
-1.25000	23.25000	89.00000	-3.0340	88.600	0.98463	4.9069	-45.953E-6	
-1.25000	24.43750	89.00000	-1.1045	88.600	31.004	48.702	0.0010426	
-1.25000	25.62500	89.00000	-1.0360	88.600	33.905	57.601	0.0010380	
-1.25000	26.81250	89.00000	-0.9710	88.600	17.324	27.685	585.58E-6	
-1.25000	28.00000	89.00000	-5.9754	88.600	-11.553	-17.190	-411.01E-6	
-1.25000	29.18750	89.00000	-7.7703	88.600	-11.976	-23.377	-295.33E-6	
-1.25000	30.37500	89.00000	-11.045	88.600	-19.550	-44.366	-336.08E-6	
-1.25000	31.56250	89.00000	-16.537	88.600	-45.756	-86.104	-0.0012039	
-1.25000	32.75000	89.00000	-18.3175	88.600	-46.312	-92.777	-0.0011002	
-1.25000	33.93750	89.00000	-18.787	88.600	-46.457	-94.724	-0.0010505	
-1.25000	35.12500	89.00000	-19.115	88.600	-46.747	-97.256	-0.0010115	
-1.25000	36.31250	89.00000	-19.440	88.600	-47.691	-101.25	-984.17E-6	
-1.25000	37.50000	89.00000	-19.852	88.600	-51.641	-108.26	-0.0010980	
-1.25000	38.68750	89.00000	-20.174	88.600	-42.168	-88.092	-903.84E-6	
-1.25000	39.87500	89.00000	-16.151	88.600	-41.023	-75.347	-0.0011229	
-1.25000	41.06250	89.00000	-15.351	88.600	-45.735	-82.826	-0.0012795	
-1.25000	42.25000	89.00000	-15.036	88.600	-46.816	-86.605	-0.0012669	
-1.25000	43.43750	89.00000	-14.745	88.600	-47.131	-88.535	-0.0012440	
-1.25000	44.62500	89.00000	-14.712	88.600	-47.245	-89.587	-0.0012270	
-1.25000	45.81250	89.00000	-14.627	88.600	-47.293	-90.217	-0.0012155	
-1.25000	47.00000	89.00000	-14.586	88.600	-47.314	-90.613	-0.0012078	
-1.25000	48.18750	89.00000	-14.593	88.600	-47.324	-90.873	-0.0012024	
-1.25000	49.37500	89.00000	-14.650	88.600	-47.329	-91.050	-0.0011985	
-1.25000	50.56250	89.00000	-14.766	88.600	-47.330	-91.174	-0.0011956	
-1.25000	51.75000	89.00000	-14.956	88.600	-47.328	-91.267	-0.0011933	
-1.25000	52.93750	89.00000	-15.251	88.600	-47.324	-91.344	-0.0011913	
-1.25000	54.12500	89.00000	-16.310	88.600	-47.319	-91.420	-0.0011891	
-1.25000	55.31250	89.00000	-17.184	88.600	-47.314	-91.513	-0.0011866	
-1.25000	56.50000	89.00000	-17.688	88.600	-47.311	-91.644	-0.0011833	
-1.25000	57.68750	89.00000	-18.458	88.600	-47.314	-91.831	-0.0011791	
-1.25000	58.87500	89.00000	-19.330	88.600	-47.326	-92.077	-0.0011742	
-1.25000	60.06250	89.00000	-19.710	88.600	-47.347	-92.346	-0.0011693	
-1.25000	61.25000	89.00000	-19.925	88.600	-47.365	-92.661	-0.0011656	
-1.25000	62.43750	89.00000	-20.018	88.600	-47.376	-92.644	-0.0011643	
-1.25000	63.62500	89.00000	-19.994	88.600	-47.374	-92.537	-0.0011667	
-1.25000	64.81250	89.00000	-19.850	88.600	-47.361	-92.179	-0.0011742	
-1.25000	66.00000	89.00000	-19.565	88.600	-47.323	-91.446	-0.0011888	
-1.25000	67.18750	89.00000	-19.095	88.600	-47.217	-90.054	-0.0012138	
-1.25000	68.37500	89.00000	-18.353	88.600	-46.887	-87.404	-0.0012531	
-1.25000	69.56250	89.00000	-17.150	88.600	-45.684	-81.904	-0.0012976	
-1.25000	70.75000	89.00000	-15.040	88.600	-40.215	-69.415	-0.0012054	
-1.25000	71.93750	89.00000	-10.997	88.600	-20.984	-44.727	-428.84E-6	
-1.25000	73.12500	89.00000	-7.4573	88.600	-5.1905	-22.555	164.31E-6	
-1.25000	74.31250	89.00000	-5.5610	88.600	-1.3705	-12.137	188.83E-6	
-1.25000	75.50000	89.00000	-4.3929	88.600	-0.47140	-7.3274	139.13E-6	
-1.25000	76.68750	89.00000	-3.5944	88.600	-0.19565	-4.8138	99.454E-6	
-1.25000	77.87500	89.00000	-3.0094	88.600	-0.092029	-3.3593	72.546E-6	
-1.25000	79.06250	89.00000	-2.5489	88.600	-0.047247	-2.4521	54.361E-6	
-1.25000	80.25000	89.00000	-2.2030	88.600	-0.025873	-1.8532	41.779E-6	
-1.25000	81.43750	89.00000	-1.9124	88.600	-0.014890	-1.4400	32.832E-6	
-1.25000	82.62500	89.00000	-1.6716	88.600	-0.0089150	-1.1447	26.304E-6	
-1.25000	83.81250	89.00000	-1.4691	88.600	-0.0055126	-0.92724	21.428E-6	
-1.25000	85.00000	89.00000	-1.2969	88.600	-0.0035016	-0.76326	17.712E-6	
0.00000	-10.00000	89.00000	-0.35003	88.600	66.677E-6	-0.064645	1.5258E-6	
0.00000	-8.81250	89.00000	-0.38995	88.600	123.40E-6	-0.066246	1.5674E-6	
0.00000	-7.62500	89.00000	-0.43250	88.600	239.50E-6	-0.063867	1.5196E-6	
0.00000	-6.43750	89.00000	-0.47649	88.600	499.36E-6	-0.052325	1.2664E-6	
0.00000	-5.25000	89.00000	-0.53009	88.600	0.0011538	-0.019445	0.0	
0.00000	-4.06250	89.00000	-0.55380	88.600	0.0031012	0.066196	-1.3386E-6	
0.00000	-2.87500	89.00000	-0.56499	88.600	0.010647	0.29943	-6.2939E-6	
0.00000	-1.68750	89.00000	-0.51165	88.600	0.058794	1.0596	-20.782E-6	
0.00000	-0.50000	89.00000	-0.25859	88.600	1.1563	5.0705	-37.687E-6	
0.00000	0.68750	89.00000	0.47502	88.600	9.4502	17.454	231.16E-6	
0.00000	1.87500	89.00000	0.66396	88.600	10.532	20.377	264.01E-6	
0.00000	3.06250	89.00000	0.67946	88.600	10.566	20.977	252.30E-6	
0.00000	4.25000	89.00000	0.62129	88.600	10.572	21.129	249.12E-6	
0.00000	5.43750	89.00000	0.51454	88.600	10.573	21.101	249.81E-6	
0.00000	6.62500	89.00000	0.35490	88.600	10.570	20.905	254.25E-6	
0.00000	7.81250	89.00000	0.10892	88.600	10.556	20.348	266.34E-6	
0.00000	9.00000	89.00000	-0.32323	88.600	10.417	18.383	302.81E-6	
0.00000	10.18750	89.00000	-1.4503	88.600	2.2433	3.1024	85.354E-6	
0.00000	11.37500	89.00000	-2.6173	88.600	-6.5326	-12.824	-159.38E-6	
0.00000	12.56250	89.00000	-3.0758	88.600	-6.6800	-14.872	-121.59E-6	
0.00000	13.75000	89.00000	-3.3593	88.600	-6.6952	-15.476	-108.47E-6	
0.00000	14.93750	89.00000	-3.5729	88.600	-6.6986	-15.736		



SOUTHERN TESTING LABORATORIES

Job No.

Sheet No.

Rev.

J12093

Kidderpore East Side
CASE 4- Undrained Movements

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
0.00000	50.56250	89.00000	-14.608	88.600	-47.303	-90.884	-0.0012006	
0.00000	51.75000	89.00000	-14.734	88.600	-47.297	-90.904	-0.0011997	
0.00000	52.93750	89.00000	-14.939	88.600	-47.286	-90.880	-0.0011995	
0.00000	54.12500	89.00000	-15.258	88.600	-47.269	-90.816	-0.0011998	
0.00000	55.31250	89.00000	-15.652	88.600	-47.244	-90.709	-0.0012005	
0.00000	56.50000	89.00000	-16.139	88.600	-47.208	-90.550	-0.0012015	
0.00000	57.68750	89.00000	-17.174	88.600	-47.159	-90.367	-0.0012026	
0.00000	58.87500	89.00000	-18.577	88.600	-47.097	-90.135	-0.0012037	
0.00000	60.06250	89.00000	-18.959	88.600	-47.029	-89.870	-0.0012051	
0.00000	61.25000	89.00000	-19.121	88.600	-46.963	-89.579	-0.0012073	
0.00000	62.43750	89.00000	-19.160	88.600	-46.908	-89.263	-0.0012109	
0.00000	63.62500	89.00000	-19.101	88.600	-46.870	-88.901	-0.0012167	
0.00000	64.81250	89.00000	-18.944	88.600	-46.845	-88.438	-0.0012258	
0.00000	66.00000	89.00000	-18.671	88.600	-46.818	-87.742	-0.0012403	
0.00000	67.18750	89.00000	-18.240	88.600	-46.745	-86.530	-0.0012637	
0.00000	68.37500	89.00000	-17.569	88.600	-46.469	-84.168	-0.0012987	
0.00000	69.56250	89.00000	-16.441	88.600	-45.336	-79.075	-0.0013396	
0.00000	70.75000	89.00000	-14.431	88.600	-39.947	-67.076	-0.0012415	
0.00000	71.93750	89.00000	-10.494	88.600	-20.797	-42.908	-458.43E-6	
0.00000	73.12500	89.00000	-7.0560	88.600	-5.0721	-21.216	141.16E-6	
0.00000	74.31250	89.00000	-5.2467	88.600	-1.3004	-11.186	-71.70E-6	
0.00000	75.50000	89.00000	-4.1482	88.600	-0.43066	-6.6596	126.30E-6	
0.00000	76.68750	89.00000	-3.4033	88.600	-0.17179	-4.3435	90.074E-6	
0.00000	77.87500	89.00000	-2.8593	88.600	-0.077725	-3.0245	65.679E-6	
0.00000	79.06250	89.00000	-2.4411	88.600	-0.038433	-2.2104	49.296E-6	
0.00000	80.25000	89.00000	-2.0289	88.600	-0.020285	-1.6782	38.006E-6	
0.00000	81.43750	89.00000	-1.8359	88.600	-0.011271	-1.3085	29.992E-6	
0.00000	82.62500	89.00000	-1.6094	88.600	-0.0065131	-1.0456	24.142E-6	
0.00000	83.81250	89.00000	-1.4183	88.600	-0.0038857	-0.85169	19.765E-6	
0.00000	85.00000	89.00000	-1.2550	88.600	-0.0023790	-0.70497	16.420E-6	
1.25000	-10.00000	89.00000	-0.37806	88.600	51.308E-6	-0.076771	8.100E-6	
1.25000	-8.81250	89.00000	-0.42558	88.600	93.225E-6	-0.084381	1.9920E-6	
1.25000	-7.62500	89.00000	-0.47858	88.600	177.20E-6	-0.091922	2.1754E-6	
1.25000	-6.43750	89.00000	-0.53740	88.600	360.42E-6	-0.097688	2.3240E-6	
1.25000	-5.25000	89.00000	-0.60212	88.600	802.78E-6	-0.097622	2.3536E-6	
1.25000	-4.06250	89.00000	-0.67859	88.600	0.0021003	-0.083126	0.0978E-6	
1.25000	-2.87500	89.00000	-0.75080	88.600	0.0058627	-0.042385	1.4111E-6	
1.25000	-1.68750	89.00000	-0.85211	88.600	0.020564	-0.035484	2.2865E-6	
1.25000	-0.50000	89.00000	-1.0776	88.600	-0.17684	-2.2232	39.827E-6	
1.25000	0.68750	89.00000	-1.9573	88.600	-13.107	-22.751	-389.90E-6	
1.25000	1.87500	89.00000	-2.1496	88.600	-13.390	-23.839	-364.49E-6	
1.25000	3.06250	89.00000	-2.2555	88.600	-13.118	-23.862	-364.51E-6	
1.25000	4.25000	89.00000	-2.3588	88.600	-13.115	-23.842	-364.76E-6	
1.25000	5.43750	89.00000	-2.4799	88.600	-13.114	-23.893	-363.54E-6	
1.25000	6.62500	89.00000	-2.6322	88.600	-13.116	-24.041	-360.13E-6	
1.25000	7.81250	89.00000	-2.8349	88.600	-13.122	-24.374	-352.73E-6	
1.25000	9.00000	89.00000	-3.1192	88.600	-13.149	-25.130	-336.84E-6	
1.25000	10.18750	89.00000	-3.5034	88.600	-13.254	-26.693	-307.51E-6	
1.25000	11.37500	89.00000	-3.8952	88.600	-13.362	-28.277	-277.84E-6	
1.25000	12.56250	89.00000	-4.2900	88.600	-13.389	-29.061	-261.35E-6	
1.25000	13.75000	89.00000	-4.4352	88.600	-13.396	-29.427	-253.20E-6	
1.25000	14.93750	89.00000	-4.6327	88.600	-13.398	-29.622	-248.76E-6	
1.25000	16.12500	89.00000	-4.8125	88.600	-13.399	-29.740	-246.02E-6	
1.25000	17.31250	89.00000	-4.9862	88.600	-13.399	-29.819	-244.20E-6	
1.25000	18.50000	89.00000	-5.1509	88.600	-13.399	-29.830	-243.02E-6	
1.25000	19.68750	89.00000	-5.3402	88.600	-13.399	-29.884	-242.63E-6	
1.25000	20.87500	89.00000	-5.5238	88.600	-13.396	-29.831	-243.73E-6	
1.25000	22.06250	89.00000	-5.7058	88.600	-13.387	-29.603	-248.43E-6	
1.25000	23.25000	89.00000	-5.8786	88.600	-13.342	-28.922	-261.23E-6	
1.25000	24.43750	89.00000	-6.0787	88.600	-13.277	-28.728	-279.73E-6	
1.25000	25.62500	89.00000	-6.5598	88.600	-13.173	-27.684	-278.47E-6	
1.25000	26.81250	89.00000	-7.4015	88.600	-13.263	-29.527	-241.49E-6	
1.25000	28.00000	89.00000	-8.6091	88.600	-13.398	-32.469	-181.79E-6	
1.25000	29.18750	89.00000	-10.334	88.600	-13.605	-36.795	-94.602E-6	
1.25000	30.37500	89.00000	-13.1582	88.600	-21.197	-58.213	-126.55E-6	
1.25000	31.56250	89.00000	-19.278	88.600	-47.438	-100.68	-979.57E-6	
1.25000	32.75000	89.00000	-21.154	88.600	-48.006	-107.19	-866.55E-6	
1.25000	33.93750	89.00000	-22.092	88.600	-48.149	-109.86	-813.81E-6	
1.25000	35.12500	89.00000	-22.574	88.600	-48.424	-112.27	-776.49E-6	
1.25000	36.31250	89.00000	-22.781	88.600	-49.327	-115.81	-754.70E-6	
1.25000	37.50000	89.00000	-22.851	88.600	-53.320	-123.08	-867.74E-6	
1.25000	38.68750	89.00000	-22.560	88.600	-67.811	-130.74	-0.0017104	
1.25000	39.87500	89.00000	-17.531	88.600	-42.007	-82.959	-0.0010132	
1.25000	41.06250	89.00000	-15.906	88.600	-45.187	-81.969	-0.0012610	
1.25000	42.25000	89.00000	-14.215	88.600	-46.175	-84.176	-0.0012774	
1.25000	43.43750	89.00000	-14.683	88.600	-46.464	-85.594	-0.0012658	
1.25000	44.62500	89.00000	-14.370	88.600	-46.568	-86.379	-0.0012547	
1.25000	45.81250	89.00000	-14.154	88.600	-46.611	-86.847	-0.0012467	
1.25000	47.00000	89.00000	-14.010	88.600	-46.629	-87.128	-0.0012414	
1.25000	48.18750	89.00000	-13.925	88.600	-46.637	-87.290	-0.0012381	
1.25000	49.37500	89.00000	-13.892	88.600	-46.637	-87.367	-0.0012363	
1.25000	50.56250	89.00000	-13.907	88.600	-46.632	-87.375	-0.0012358	
1.25000	51.75000	89.00000	-13.972	88.600	-46.620	-87.316	-0.0012364	
1.25000	52.93750	89.00000	-14.091	88.600	-46.601	-87.187	-0.0012380	
1.25000	54.12500	89.00000	-14.271	88.600	-46.569	-86.971	-0.0012407	
1.25000	55.31250	89.00000	-14.522	88.600	-46.516	-86.656	-0.0012445	
1.25000	56.50000	89.00000	-14.913	88.600	-46.432	-86.209	-0.0012491	
1.25000	57.68750	89.00000	-15.928	88.600	-46.303	-85.612	-0.0012541	
1.25000	58.87500	89.00000	-17.312	88.600	-46.124	-84.869	-0.0012589	
1.25000	60.06250	89.00000	-17.684	88.600	-45.911	-84.034	-0.0012635	
1.25000	61.25000	89.00000	-17.743	88.600	-45.704	-83.203	-0.0012685	
1.25000	62.43750	89.00000	-17.728	88.600	-45.545	-82.466	-0.0012746	
1.25000	63.62500	89.00000	-17.636	88.600	-45.450	-81.855	-0.0012822	
1.25000	64.81250	89.00000	-17.476	88.600	-45.413	-81.330	-0.0012920	
1.25000	66.00000	89.00000	-17.235	88.600	-45.421	-80.772	-0.0013056	
1.25000	67.18750	89.00000	-16.873	88.600	-45.431	-79.910	-0.0013267	
1.25000	68.37500	89.00000	-16.303	88.600	-45.293	-78.120	-0.0013591	
1.25000	69.56250	89.00000	-15.331	88.600	-44.350	-73.824	-0.0013935	
1.25000	70.75000	89.00000	-13.500	88.600	-39.198	-62.835	-0.0012885	
1.25000	71.93750	89.00000	-9.7584	88.600	-20.314	-39.795	-497.93E-6	
1.25000	73.12500	89.00000	-6.5006	88.600	-4.8116	-19.121	110.25E-6	
1.25000	74.31250	89.00000	-4.8341	88.600	-1.1716	-9.8283	148.55E-6	
1.25000	75.50000	89.00000	-3.8397	88.600	-0.36636	-5.7758	110.04E-6	
1.25000	76.68750	89.00000	-3.1692	88.600	-0.13801	-3.7544	78.597E-6	
1.25000	77.87500	89.00000	-2.6827	88.600	-0.05868	-2.6210	57.508E-6	
1.25000	79.06250	89.00000	-2.2998	88.600	-0.027492	-1.9269	43.398E-6	
1.25000	80.25000	89.00000	-1.9960	88.600	-0.013642	-1.4725	33.683E-6	
1.25000	81.43750	89.00000	-1.7461	88.600	-0.0070826	-1.1592	26.776E-6	
1.25000	82.62500	89.00000	-1.5367	88.600	-0.0037975	-0.93433	21.716E-6	
1.25000	83.81250	89.00000	-1.3589	88.600	-0.0020799	-0.76750	17.912E-6	
1.25000	85.00000	89.00000	-1.2061	88.600	-0.0011512	-0.64037	14.986E-6	
2.50000	-10.00000	89.00000	-0.40599	88.600	30.736E-6	-0.090142	2.1231E-6	
2.50000	-8.81250	89.00000	-0.46172	88.600	51.930E-6	-0.10489	2.4717E-6	
2.50000	-7.62500	89.00000	-0.52622	88.600	90.659E-6	-0.12445	2.9347E-6	
2.50000	-6.43750	89.00000	-0.61375	88.600	168.79E-6	-0.15131	3.5722E-6	
2.50000	-5.25000	89.00000	-0.69111	88.60				



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore East Side
CASE 4- Undrained Movements

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
2.50000	25.62500	89.00000	-7.4415	88.600	-13.387	-31.396	-206.25E-6	
2.50000	26.81250	89.00000	-8.1959	88.600	-13.400	-32.285	-186.26E-6	
2.50000	28.00000	89.00000	-9.2739	88.600	-13.435	-33.957	-149.37E-6	
2.50000	29.18750	89.00000	-10.943	88.600	-13.619	-37.811	-71.662E-6	
2.50000	30.37500	89.00000	-14.287	88.600	-21.206	-59.115	-105.98E-6	
2.50000	31.56250	89.00000	-19.898	88.600	-47.445	-101.56	-959.8E-6	
2.50000	32.75000	89.00000	-21.787	88.600	-48.008	-108.02	-847.08E-6	
2.50000	33.93750	89.00000	-22.721	88.600	-48.138	-110.58	-796.10E-6	
2.50000	35.12500	89.00000	-23.159	88.600	-48.375	-112.73	-762.28E-6	
2.50000	36.31250	89.00000	-23.263	88.600	-49.161	-115.81	-745.18E-6	
2.50000	37.50000	89.00000	-23.114	88.600	-52.778	-127.92	-856.23E-6	
2.50000	38.68750	89.00000	-22.493	88.600	-66.371	-127.79	-0.0016781	
2.50000	39.87500	89.00000	-17.047	88.600	-39.537	-77.365	-970.48E-6	
2.50000	41.06250	89.00000	-15.081	88.600	-42.249	-74.494	-0.0012295	
2.50000	42.25000	89.00000	-14.104	88.600	-43.096	-75.866	-0.0012570	
2.50000	43.43750	89.00000	-13.505	88.600	-43.240	-76.793	-0.0012324	
2.50000	44.62500	89.00000	-13.102	88.600	-43.428	-77.352	-0.0012455	
2.50000	45.81250	89.00000	-12.823	88.600	-43.465	-77.689	-0.0012401	
2.50000	47.00000	89.00000	-12.629	88.600	-43.480	-77.886	-0.0012365	
2.50000	48.18750	89.00000	-12.501	88.600	-43.485	-77.984	-0.0012346	
2.50000	49.37500	89.00000	-12.225	88.600	-43.482	-78.002	-0.0012340	
2.50000	50.56250	89.00000	-12.393	88.600	-43.473	-77.944	-0.0012347	
2.50000	51.75000	89.00000	-12.403	88.600	-43.456	-77.804	-0.0012368	
2.50000	52.93750	89.00000	-12.452	88.600	-43.424	-77.562	-0.0012403	
2.50000	54.12500	89.00000	-12.545	88.600	-43.370	-77.186	-0.0012453	
2.50000	55.31250	89.00000	-12.769	88.600	-43.276	-76.237	-0.0012519	
2.50000	56.50000	89.00000	-12.990	88.600	-43.107	-75.804	-0.0012592	
2.50000	57.68750	89.00000	-13.902	88.600	-42.812	-74.650	-0.0012656	
2.50000	58.87500	89.00000	-15.177	88.600	-42.340	-73.130	-0.0012680	
2.50000	60.06250	89.00000	-15.394	88.600	-41.720	-71.363	-0.0012658	
2.50000	61.25000	89.00000	-15.888	88.600	-41.188	-69.641	-0.0012638	
2.50000	62.43750	89.00000	-15.294	88.600	-40.693	-68.247	-0.0012666	
2.50000	63.62500	89.00000	-15.161	88.600	-40.470	-67.283	-0.0012736	
2.50000	64.81250	89.00000	-15.003	88.600	-40.412	-66.713	-0.0012829	
2.50000	66.00000	89.00000	-14.815	88.600	-40.499	-66.426	-0.0012958	
2.50000	67.18750	89.00000	-14.225	88.600	-40.720	-66.205	-0.0013166	
2.50000	68.37500	89.00000	-14.184	88.600	-40.967	-65.494	-0.0013508	
2.50000	69.56250	89.00000	-13.473	88.600	-40.589	-62.777	-0.0013880	
2.50000	70.75000	89.00000	-11.979	88.600	-36.261	-54.017	-0.0012886	
2.50000	71.93750	89.00000	-8.6377	88.600	-18.622	-33.869	-517.57E-6	
2.50000	73.12500	89.00000	-5.7882	88.600	-4.3498	-15.738	-77.369E-6	
2.50000	74.31250	89.00000	-4.3130	88.600	-0.93221	-7.9367	-120.94E-6	
2.50000	75.50000	89.00000	-3.4700	88.600	-0.26897	-4.6582	-90.619E-6	
2.50000	76.68750	89.00000	-2.8971	88.600	-0.092839	-3.0530	-65.281E-6	
2.50000	77.87500	89.00000	-2.4726	88.600	-0.035763	-2.1558	-48.265E-6	
2.50000	79.06250	89.00000	-2.1401	88.600	-0.014640	-1.6000	-6.849E-6	
2.50000	80.25000	89.00000	-1.8701	88.600	-0.0061077	-1.2486	-28.947E-6	
2.50000	81.43750	89.00000	-1.6455	88.600	-0.0024650	-0.99704	-23.286E-6	
2.50000	82.62500	89.00000	-1.4554	88.600	-863.95E-6	-0.81439	-19.101E-6	
2.50000	83.81250	89.00000	-1.2924	88.600	-159.44E-6	-0.67716	-15.923E-6	
2.50000	85.00000	89.00000	-1.1514	88.600	138.48E-6	-0.57135	-13.453E-6	
3.75000	-10.00000	89.00000	-0.43255	88.600	7.3095E-6	-0.10378	2.4425E-6	
3.75000	-8.81250	89.00000	-0.49655	88.600	3.5688E-6	-0.12625	2.9708E-6	
3.75000	-7.62500	89.00000	-0.57286	88.600	-13.855E-6	-0.15910	3.7425E-6	
3.75000	-6.43750	89.00000	-0.63758	88.600	-69.835E-6	-0.20975	4.9033E-6	
3.75000	-5.25000	89.00000	-0.78121	88.600	-233.57E-6	-0.29289	6.8751E-6	
3.75000	-4.06250	89.00000	-0.93073	88.600	-692.85E-6	-0.43983	10.300E-6	
3.75000	-2.87500	89.00000	-1.1343	88.600	-0.0018355	-0.72492	16.927E-6	
3.75000	-1.68750	89.00000	-1.4343	88.600	-0.0037968	-1.3933	32.516E-6	
3.75000	-0.50000	89.00000	-1.6045	88.600	-0.26704	-8.481E-6	4.9233E-6	
3.75000	0.68750	89.00000	-3.1648	88.600	-13.327	-27.461	-294.61E-6	
3.75000	1.87500	89.00000	-3.5775	88.600	-13.397	-29.642	-248.21E-6	
3.75000	3.06250	89.00000	-3.7928	88.600	-13.393	-29.960	-240.49E-6	
3.75000	4.25000	89.00000	-3.9440	88.600	-13.392	-30.052	-238.22E-6	
3.75000	5.43750	89.00000	-4.0170	88.600	-13.391	-30.111	-236.79E-6	
3.75000	6.62500	89.00000	-4.2107	88.600	-13.392	-30.183	-235.09E-6	
3.75000	7.81250	89.00000	-4.3540	88.600	-13.392	-30.287	-232.70E-6	
3.75000	9.00000	89.00000	-4.5108	88.600	-13.394	-30.429	-229.46E-6	
3.75000	10.18750	89.00000	-4.6795	88.600	-13.395	-30.601	-225.54E-6	
3.75000	11.37500	89.00000	-4.8595	88.600	-13.397	-30.775	-221.53E-6	
3.75000	12.56250	89.00000	-5.0260	88.600	-13.399	-30.931	-218.00E-6	
3.75000	13.75000	89.00000	-5.1946	88.600	-13.400	-31.054	-215.16E-6	
3.75000	14.93750	89.00000	-5.3610	88.600	-13.400	-31.151	-212.91E-6	
3.75000	16.12500	89.00000	-5.5293	88.600	-13.400	-31.231	-211.07E-6	
3.75000	17.31250	89.00000	-5.7044	88.600	-13.401	-31.300	-209.46E-6	
3.75000	18.50000	89.00000	-5.8918	88.600	-13.401	-31.364	-207.96E-6	
3.75000	19.68750	89.00000	-6.0977	88.600	-13.401	-31.428	-206.48E-6	
3.75000	20.87500	89.00000	-6.3302	88.600	-13.401	-31.495	-204.90E-6	
3.75000	22.06250	89.00000	-6.6013	88.600	-13.401	-31.575	-203.00E-6	
3.75000	23.25000	89.00000	-6.9197	88.600	-13.401	-31.664	-200.19E-6	
3.75000	24.43750	89.00000	-7.3457	88.600	-13.401	-31.910	-195.15E-6	
3.75000	25.62500	89.00000	-7.8933	88.600	-13.404	-32.322	-185.67E-6	
3.75000	26.81250	89.00000	-8.6351	88.600	-13.413	-33.085	-168.34E-6	
3.75000	28.00000	89.00000	-9.6852	88.600	-13.442	-34.559	-135.66E-6	
3.75000	29.18750	89.00000	-11.1366	88.600	-13.622	-38.275	-60.946E-6	
3.75000	30.37500	89.00000	-14.673	88.600	-21.207	-59.503	-96.891E-6	
3.75000	31.56250	89.00000	-20.281	88.600	-47.442	-101.88	-951.58E-6	
3.75000	32.75000	89.00000	-22.161	88.600	-47.998	-108.26	-840.79E-6	
3.75000	33.93750	89.00000	-23.064	88.600	-48.109	-110.64	-792.61E-6	
3.75000	35.12500	89.00000	-23.430	88.600	-48.286	-112.41	-763.44E-6	
3.75000	36.31250	89.00000	-23.377	88.600	-48.833	-114.59	-750.72E-6	
3.75000	37.50000	89.00000	-22.872	88.600	-51.214	-118.22	-833.39E-6	
3.75000	38.68750	89.00000	-21.467	88.600	-59.414	-117.91	-0.0014196	
3.75000	39.87500	89.00000	-15.147	88.600	-26.661	-60.808	-451.16E-6	
3.75000	41.06250	89.00000	-9.8206	88.600	-27.895	-54.911	-676.48E-6	
3.75000	42.25000	89.00000	-11.482	88.600	-28.446	-55.071	-712.18E-6	
3.75000	43.43750	89.00000	-10.745	88.600	-28.620	-55.454	-715.47E-6	
3.75000	44.62500	89.00000	-10.258	88.600	-28.686	-55.740	-713.37E-6	
3.75000	45.81250	89.00000	-9.9214	88.600	-28.713	-55.925	-710.94E-6	
3.75000	47.00000	89.00000	-9.2430	88.600	-28.724	-56.071	-709.44E-6	
3.75000	48.18750	89.00000	-9.5176	88.600	-28.726	-56.055	-708.81E-6	
3.75000	49.37500	89.00000	-9.4040	88.600	-28.721	-56.011	-709.47E-6	
3.75000	50.56250	89.00000	-9.3315	88.600	-28.708	-55.887	-711.45E-6	
3.75000	51.75000	89.00000	-9.2921	88.600	-28.683	-55.663	-714.96E-6	
3.75000	52.93750	89.00000	-9.2804	88.600	-28.638	-55.303	-720.28E-6	
3.75000	54.12500	89.00000	-9.2957	88.600	-28.555	-54.747	-727.50E-6	
3.75000	55.31250	89.00000	-9.3500	88.600	-28.398	-53.895	-736.41E-6	
3.75000	56.50000	89.00000	-9.5086	88.600	-28.081	-52.587	-744.86E-6	
3.75000	57.68750	89.00000	-10.244	88.600	-27.428	-50.594	-745.66E-6	
3.75000	58.87500	89.00000	-11.315	88.600	-26.153	-47.705	-723.59E-6	
3.75000	60.06250	89.00000	-11.346	88.600	-24.206	-44.090	-671.28E-6	
3.75000	61.25000	89.00000	-11.179	88.600	-22.323	-40.588	-620.73E-6	
3.75000	62.43750	89.00000	-10.961	88.600	-21.170	-37.998	-600.27E-6	
3.75000	63.62500	89.00000	-10.762	88.600	-20.660	-36.463	-600.37E-6	
3.75000	64.81250	89.00000	-10.504	88.600	-20.500	-35.322	-608.16E-6	
3.75000	66.00000	89.00000	-10.494	88.600	-20.811	-35.987	-622.24E-6	
3.75000	67.18750	89.00000	-10.427	88.600				



SOUTHERN TESTING LABORATORIES

Job No.

Sheet No.

Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore East Side
CASE 4- Undrained Movements

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
5.00000	0.68750	89.00000	-3.5739	88.600	-13.373	-28.766	-267.10E-6	
5.00000	1.87500	89.00000	-3.9403	88.600	-13.410	-30.464	-229.77E-6	
5.00000	3.06250	89.00000	-4.1370	88.600	-13.401	-30.636	-225.10E-6	
5.00000	4.25000	89.00000	-4.2816	88.600	-13.398	-30.684	-223.79E-6	
5.00000	5.43750	89.00000	-4.4089	88.600	-13.397	-30.720	-222.88E-6	
5.00000	6.62500	89.00000	-4.5326	88.600	-13.397	-30.766	-221.79E-6	
5.00000	7.81250	89.00000	-4.6594	88.600	-13.397	-30.827	-220.37E-6	
5.00000	9.00000	89.00000	-4.7925	88.600	-13.398	-30.904	-218.57E-6	
5.00000	10.18750	89.00000	-4.9321	88.600	-13.398	-30.994	-216.49E-6	
5.00000	11.37500	89.00000	-5.0770	88.600	-13.399	-31.089	-214.31E-6	
5.00000	12.56250	89.00000	-5.2255	88.600	-13.399	-31.179	-212.23E-6	
5.00000	13.75000	89.00000	-5.3770	88.600	-13.400	-31.260	-210.33E-6	
5.00000	14.93750	89.00000	-5.5328	88.600	-13.400	-31.333	-208.63E-6	
5.00000	16.12500	89.00000	-5.6958	88.600	-13.400	-31.401	-207.06E-6	
5.00000	17.31250	89.00000	-5.8667	88.600	-13.401	-31.466	-205.54E-6	
5.00000	18.50000	89.00000	-6.0459	88.600	-13.401	-31.528	-204.08E-6	
5.00000	19.68750	89.00000	-6.2323	88.600	-13.401	-31.607	-202.26E-6	
5.00000	20.87500	89.00000	-6.5161	88.600	-13.401	-31.695	-200.20E-6	
5.00000	22.06250	89.00000	-6.8033	88.600	-13.402	-31.811	-197.50E-6	
5.00000	23.25000	89.00000	-7.1514	88.600	-13.402	-31.977	-193.64E-6	
5.00000	24.43750	89.00000	-7.5857	88.600	-13.404	-32.206	-187.67E-6	
5.00000	25.62500	89.00000	-8.1436	88.600	-13.407	-32.659	-177.94E-6	
5.00000	26.81250	89.00000	-8.8851	88.600	-13.416	-33.391	-161.32E-6	
5.00000	28.00000	89.00000	-9.9284	88.600	-13.443	-34.808	-129.90E-6	
5.00000	29.18750	89.00000	-11.5711	88.600	-13.621	-38.463	-56.483E-6	
5.00000	30.37500	89.00000	-14.2011	88.600	-21.205	-89.634	-93.630E-6	
5.00000	31.56250	89.00000	-20.498	88.600	-47.437	-101.95	-949.73E-6	
5.00000	32.75000	89.00000	-22.357	88.600	-47.985	-108.22	-840.93E-6	
5.00000	33.93750	89.00000	-23.220	88.600	-48.075	-110.40	-795.93E-6	
5.00000	35.12500	89.00000	-23.507	88.600	-48.187	-111.76	-771.66E-6	
5.00000	36.31250	89.00000	-23.421	88.600	-48.242	-112.98	-762.47E-6	
5.00000	37.50000	89.00000	-22.380	88.600	-49.280	-113.83	-800.15E-6	
5.00000	38.68750	89.00000	-19.854	88.600	-49.622	-106.06	-0.0010071	
5.00000	39.87500	89.00000	-12.091	88.600	-8.1684	-40.857	384.76E-6	
5.00000	41.06250	89.00000	-8.9815	88.600	-7.4264	-30.971	204.52E-6	
5.00000	42.25000	89.00000	-6.7380	88.600	-7.6396	-29.524	155.41E-6	
5.00000	43.43750	89.00000	-6.6047	88.600	-7.7339	-29.259	142.54E-6	
5.00000	44.62500	89.00000	-6.0473	88.600	-7.7750	-29.246	139.31E-6	
5.00000	45.81250	89.00000	-5.6655	88.600	-7.7932	-29.271	138.62E-6	
5.00000	47.00000	89.00000	-5.3940	88.600	-7.7997	-29.275	138.25E-6	
5.00000	48.18750	89.00000	-5.1972	88.600	-7.7986	-29.333	137.35E-6	
5.00000	49.37500	89.00000	-5.0528	88.600	-7.7903	-29.129	135.49E-6	
5.00000	50.56250	89.00000	-4.9458	88.600	-7.7727	-28.941	132.31E-6	
5.00000	51.75000	89.00000	-4.8642	88.600	-7.7401	-28.637	127.45E-6	
5.00000	52.93750	89.00000	-4.7980	88.600	-7.6797	-28.161	120.51E-6	
5.00000	54.12500	89.00000	-4.7380	88.600	-7.5634	-26.419	111.27E-6	
5.00000	55.31250	89.00000	-4.6812	88.600	-7.3243	-26.246	100.55E-6	
5.00000	56.50000	89.00000	-4.6553	88.600	-6.7905	-24.345	93.484E-6	
5.00000	57.68750	89.00000	-5.0215	88.600	-5.5028	-21.193	110.21E-6	
5.00000	58.87500	89.00000	-5.6750	88.600	-2.4169	-16.005	207.86E-6	
5.00000	60.06250	89.00000	-5.6438	88.600	3.1653	-9.0538	436.47E-6	
5.00000	61.25000	89.00000	-5.4538	88.600	8.5252	-2.2644	655.06E-6	
5.00000	62.43750	89.00000	-5.0707	88.600	11.295	2.2895	743.39E-6	
5.00000	63.62500	89.00000	-4.7703	88.600	12.322	4.6585	760.15E-6	
5.00000	64.81250	89.00000	-4.6028	88.600	12.421	5.2516	755.25E-6	
5.00000	66.00000	89.00000	-4.5879	88.600	11.966	4.6199	735.99E-6	
5.00000	67.18750	89.00000	-4.7702	88.600	10.237	2.1352	672.35E-6	
5.00000	68.37500	89.00000	-5.1860	88.600	6.2052	-2.3289	492.81E-6	
5.00000	69.56250	89.00000	-5.6472	88.600	0.55751	-7.4070	213.64E-6	
5.00000	70.75000	89.00000	-5.75005	88.600	-2.6916	-9.7288	38.920E-6	
5.00000	71.93750	89.00000	-4.6298	88.600	-2.0634	-7.8682	39.484E-6	
5.00000	73.12500	89.00000	-3.6229	88.600	-0.59192	-4.8160	71.534E-6	
5.00000	74.31250	89.00000	-3.10414	88.600	-0.10420	-2.9688	62.500E-6	
5.00000	75.50000	89.00000	-2.6184	88.600	0.0010274	-2.0151	47.486E-6	
5.00000	76.68750	89.00000	-2.2876	88.600	0.019544	-1.4648	36.245E-6	
5.00000	77.87500	89.00000	-2.0170	88.600	0.017523	-1.1580	28.483E-6	
5.00000	79.06250	89.00000	-1.7892	88.600	0.013491	-0.93799	23.023E-6	
5.00000	80.25000	89.00000	-1.5940	88.600	0.0098238	-0.77964	19.038E-6	
5.00000	81.43750	89.00000	-1.4245	88.600	0.0070513	-0.65991	16.025E-6	
5.00000	82.62500	89.00000	-1.2762	88.600	0.0050655	-0.56608	13.677E-6	
5.00000	83.81250	89.00000	-1.1456	88.600	0.0036652	-0.49062	11.803E-6	
5.00000	85.00000	89.00000	-1.0299	88.600	0.0026782	-0.42875	10.277E-6	
6.25000	-10.00000	89.00000	-0.47598	88.600	-34.068E-6	-0.12715	2.9893E-6	
6.25000	-8.81250	89.00000	-0.55429	88.600	-88.078E-6	-0.16380	3.8480E-6	
6.25000	-7.62500	89.00000	-0.61655	88.600	-232.26E-6	-0.22149	5.2185E-6	
6.25000	-6.43750	89.00000	-0.77679	88.600	-645.73E-6	-0.32364	7.5696E-6	
6.25000	-5.25000	89.00000	-0.94556	88.600	-0.0020011	-0.51569	11.993E-6	
6.25000	-4.06250	89.00000	-1.1905	88.600	-0.0077023	-0.93664	21.495E-6	
6.25000	-2.87500	89.00000	-1.5885	88.600	-0.048203	-2.1379	46.901E-6	
6.25000	-1.68750	89.00000	-2.2876	88.600	-1.3057	-8.8921	17.308E-6	
6.25000	-0.50000	89.00000	-3.9897	88.600	-18.551	-36.638	-447.41E-6	
6.25000	0.68750	89.00000	-4.1227	88.600	-13.935	-32.982	-207.61E-6	
6.25000	1.87500	89.00000	-4.2489	88.600	-13.434	-31.335	-211.00E-6	
6.25000	3.06250	89.00000	-4.3788	88.600	-13.406	-31.081	-214.98E-6	
6.25000	4.25000	89.00000	-4.5002	88.600	-13.401	-31.028	-215.88E-6	
6.25000	5.43750	89.00000	-4.6152	88.600	-13.399	-31.027	-215.80E-6	
6.25000	6.62500	89.00000	-4.7277	88.600	-13.399	-31.048	-215.28E-6	
6.25000	7.81250	89.00000	-4.8411	88.600	-13.399	-31.082	-214.47E-6	
6.25000	9.00000	89.00000	-4.9579	88.600	-13.399	-31.127	-213.42E-6	
6.25000	10.18750	89.00000	-5.0795	88.600	-13.399	-31.180	-212.93E-6	
6.25000	11.37500	89.00000	-5.2067	88.600	-13.399	-31.237	-210.85E-6	
6.25000	12.56250	89.00000	-5.3398	88.600	-13.400	-31.297	-209.46E-6	
6.25000	13.75000	89.00000	-5.4795	88.600	-13.400	-31.357	-208.07E-6	
6.25000	14.93750	89.00000	-5.6272	88.600	-13.400	-31.416	-206.69E-6	
6.25000	16.12500	89.00000	-5.7852	88.600	-13.400	-31.475	-205.30E-6	
6.25000	17.31250	89.00000	-5.9571	88.600	-13.400	-31.537	-203.86E-6	
6.25000	18.50000	89.00000	-6.1476	88.600	-13.401	-31.605	-202.28E-6	
6.25000	19.68750	89.00000	-6.3630	88.600	-13.401	-31.684	-200.45E-6	
6.25000	20.87500	89.00000	-6.6120	88.600	-13.401	-31.781	-198.18E-6	
6.25000	22.06250	89.00000	-6.9052	88.600	-13.402	-31.902	-195.01E-6	
6.25000	23.25000	89.00000	-7.2621	88.600	-13.403	-32.090	-191.02E-6	
6.25000	24.43750	89.00000	-7.7032	88.600	-13.404	-32.357	-184.84E-6	
6.25000	25.62500	89.00000	-8.2648	88.600	-13.408	-32.778	-175.18E-6	
6.25000	26.81250	89.00000	-9.0060	88.600	-13.416	-33.491	-158.97E-6	
6.25000	28.00000	89.00000	-10.046	88.600	-13.442	-34.876	-128.25E-6	
6.25000	29.18750	89.00000	-11.683	88.600	-13.620	-38.491	-55.739E-6	
6.25000	30.37500	89.00000	-15.004	88.600	-21.202	-59.609	-94.021E-6	
6.25000	31.56250	89.00000	-22.421	88.600	-47.430	-101.85	-951.56E-6	
6.25000	32.75000	89.00000	-28.421	88.600	-47.972	-108.01	-844.85E-6	
6.25000	33.93750	89.00000	-23.242	88.600	-48.045	-110.01	-802.96E-6	
6.25000	35.12500	89.00000	-23.464	88.600	-48.108	-111.04	-783.14E-6	
6.25000	36.31250	89.00000	-23.135	88.600	-48.220	-111.60	-777.94E-6	
6.25000	37.50000	89.00000	-21.995	88.600	-48.416	-111.19	-801.47E-6	
6.25000	38.68750	89.00000	-18.872	88.600	-47.651	-104.16	-912.78E-6	
6.25000	39.87500	89.00000	-19.794	88.600	-47.994	-106.50	-76.91E-6	
6.25000	41.06250	89.00000	-4.4591	88.600	-2.0492	-21.485	360.87E-6	
6.25000								



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore East Side
CASE 4- Undrained Movements

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
6.25000	71.93750	89.00000	-2.8060	88.600	1.2479	0.46784	77.079E-6	
6.25000	73.12500	89.00000	-2.6599	88.600	0.45796	-0.59796	46.396E-6	
6.25000	74.31250	89.00000	-2.4342	88.600	0.21719	-0.81914	34.605E-6	
6.25000	75.50000	89.00000	-2.2026	88.600	0.11814	-0.81731	27.570E-6	
6.25000	76.68750	89.00000	-1.9860	88.600	0.068667	-0.76035	22.738E-6	
6.25000	77.87500	89.00000	-1.7892	88.600	0.041698	-0.69122	19.207E-6	
6.25000	79.06250	89.00000	-1.6122	88.600	0.026213	-0.62245	16.496E-6	
6.25000	80.25000	89.00000	-1.4534	88.600	0.016989	-0.55817	14.333E-6	
6.25000	81.43750	89.00000	-1.3111	88.600	0.011307	-0.49975	12.557E-6	
6.25000	82.62500	89.00000	-1.1835	88.600	0.0077059	-0.44740	11.071E-6	
6.25000	83.81250	89.00000	-1.0699	88.600	0.0053633	-0.40089	9.8112E-6	
6.25000	85.00000	89.00000	-0.96611	88.600	0.0038042	-0.35973	8.7327E-6	
7.50000	-10.00000	89.00000	-0.49024	88.600	-42.998E-6	-0.13438	3.1590E-6	
7.50000	-8.81250	89.00000	-0.57328	88.600	-111.09E-6	-0.17556	4.1230E-6	
7.50000	-7.62500	89.00000	-0.67775	88.600	-297.93E-6	-0.24300	5.6967E-6	
7.50000	-6.43750	89.00000	-0.8197	88.600	-858.53E-6	-0.36310	7.4829E-6	
7.50000	-5.25000	89.00000	-1.0038	88.600	-0.0028202	-0.60247	13.977E-6	
7.50000	-4.06250	89.00000	-1.2916	88.600	-0.011850	-1.1682	26.651E-6	
7.50000	-2.87500	89.00000	-1.7978	88.600	-0.084762	-2.9970	64.533E-6	
7.50000	-1.68750	89.00000	-2.9433	88.600	-2.8006	-15.795	173.96E-6	
7.50000	-0.50000	89.00000	-5.8805	88.600	-73.606	-73.606	1.00130E-6	
7.50000	0.68750	89.00000	-4.6218	88.600	-14.584	-37.439	-148.53E-6	
7.50000	1.87500	89.00000	-4.4844	88.600	-13.459	-32.087	-195.04E-6	
7.50000	3.06250	89.00000	-4.5400	88.600	-13.409	-31.382	-208.14E-6	
7.50000	4.25000	89.00000	-4.6341	88.600	-13.402	-31.223	-211.37E-6	
7.50000	5.43750	89.00000	-4.7444	88.600	-13.400	-31.184	-212.11E-6	
7.50000	6.62500	89.00000	-4.8347	88.600	-13.400	-31.182	-212.17E-6	
7.50000	7.81250	89.00000	-4.9352	88.600	-13.400	-31.195	-211.84E-6	
7.50000	9.00000	89.00000	-5.0380	88.600	-13.399	-31.218	-211.30E-6	
7.50000	10.18750	89.00000	-5.1455	88.600	-13.400	-31.249	-210.58E-6	
7.50000	11.37500	89.00000	-5.2594	88.600	-13.400	-31.286	-209.71E-6	
7.50000	12.56250	89.00000	-5.3811	88.600	-13.400	-31.330	-208.70E-6	
7.50000	13.75000	89.00000	-5.5118	88.600	-13.400	-31.377	-207.58E-6	
7.50000	14.93750	89.00000	-5.6529	88.600	-13.400	-31.428	-206.39E-6	
7.50000	16.12500	89.00000	-5.8064	88.600	-13.400	-31.483	-205.11E-6	
7.50000	17.31250	89.00000	-5.9755	88.600	-13.400	-31.543	-203.72E-6	
7.50000	18.50000	89.00000	-6.1646	88.600	-13.401	-31.610	-202.15E-6	
7.50000	19.68750	89.00000	-6.3798	88.600	-13.401	-31.690	-200.29E-6	
7.50000	20.87500	89.00000	-6.6293	88.600	-13.401	-31.790	-197.97E-6	
7.50000	22.06250	89.00000	-6.9247	88.600	-13.402	-31.912	-194.92E-6	
7.50000	23.25000	89.00000	-7.2816	88.600	-13.403	-32.052	-190.72E-6	
7.50000	24.43750	89.00000	-7.7228	88.600	-13.404	-32.367	-184.61E-6	
7.50000	25.62500	89.00000	-8.2831	88.600	-13.407	-32.778	-175.17E-6	
7.50000	26.81250	89.00000	-9.0218	88.600	-13.415	-33.472	-159.39E-6	
7.50000	28.00000	89.00000	-10.059	88.600	-13.441	-34.808	-129.31E-6	
7.50000	29.18750	89.00000	-11.632	88.600	-13.618	-38.002	-57.692E-6	
7.50000	30.37500	89.00000	-15.006	88.600	-21.198	-59.467	-97.139E-6	
7.50000	31.56250	89.00000	-20.575	88.600	-47.424	-101.63	-956.24E-6	
7.50000	32.75000	89.00000	-22.380	88.600	-47.960	-107.69	-851.66E-6	
7.50000	33.93750	89.00000	-23.150	88.600	-48.022	-109.52	-812.72E-6	
7.50000	35.12500	89.00000	-23.327	88.600	-48.057	-110.31	-796.71E-6	
7.50000	36.31250	89.00000	-22.949	88.600	-48.102	-110.51	-795.19E-6	
7.50000	37.50000	89.00000	-21.805	88.600	-48.151	-109.81	-815.26E-6	
7.50000	38.68750	89.00000	-18.913	88.600	-48.068	-106.28	-892.38E-6	
7.50000	39.87500	89.00000	-10.8386	88.600	-42.099	-83.712	-0.0010020	
7.50000	41.06250	89.00000	-4.9110	88.600	-1.2492	-19.170	362.88E-6	
7.50000	42.25000	89.00000	-3.0766	88.600	-0.60974	-11.922	237.47E-6	
7.50000	43.43750	89.00000	-2.1160	88.600	-0.59291	-10.356	201.86E-6	
7.50000	44.62500	89.00000	-1.5175	88.600	-0.59791	-9.8160	188.76E-6	
7.50000	45.81250	89.00000	-1.1067	88.600	-0.61048	-9.5648	182.71E-6	
7.50000	47.00000	89.00000	-0.80770	88.600	-0.60063	-9.4094	179.00E-6	
7.50000	48.18750	89.00000	-0.58078	88.600	-0.59459	-9.2519	175.72E-6	
7.50000	49.37500	89.00000	-0.40151	88.600	-0.58146	-9.0502	171.90E-6	
7.50000	50.56250	89.00000	-0.25186	88.600	-0.56592	-8.7619	166.85E-6	
7.50000	51.75000	89.00000	-0.13151	88.600	-0.53168	-8.3318	159.92E-6	
7.50000	52.93750	89.00000	0.029121	88.600	-0.42526	-7.6723	150.51E-6	
7.50000	54.12500	89.00000	0.21079	88.600	-0.24951	-6.6295	138.37E-6	
7.50000	55.31250	89.00000	0.47733	88.600	1.13896	-4.9145	125.44E-6	
7.50000	56.50000	89.00000	0.90503	88.600	1.0869	-1.9607	122.85E-6	
7.50000	57.68750	89.00000	1.6113	88.600	3.6229	3.3312	177.19E-6	
7.50000	58.87500	89.00000	2.6537	88.600	10.377	12.711	433.44E-6	
7.50000	60.06250	89.00000	1.9170	88.600	23.505	26.464	0.0010365	
7.50000	61.25000	89.00000	2.1726	88.600	36.070	39.724	0.0016114	
7.50000	62.43750	89.00000	3.2068	88.600	42.110	48.067	0.0018415	
7.50000	63.62500	89.00000	5.6240	88.600	44.848	52.007	0.0018934	
7.50000	64.81250	89.00000	4.0990	88.600	44.466	52.884	0.0018945	
7.50000	66.00000	89.00000	3.9691	88.600	43.407	51.000	0.0018640	
7.50000	67.18750	89.00000	3.3369	88.600	39.698	45.496	0.0017317	
7.50000	68.37500	89.00000	2.0128	88.600	30.257	35.040	0.0013113	
7.50000	69.56250	89.00000	0.24765	88.600	16.091	21.487	0.30.26E-6	
7.50000	70.75000	89.00000	-1.0829	88.600	6.2805	10.776	189.77E-6	
7.50000	71.93750	89.00000	-1.7205	88.600	2.3026	4.8618	48.142E-6	
7.50000	73.12500	89.00000	-1.9254	88.600	0.91121	2.0400	16.321E-6	
7.50000	74.31250	89.00000	-1.9236	88.600	0.40350	0.73729	11.134E-6	
7.50000	75.50000	89.00000	-1.9294	88.600	0.19925	0.12925	0.9.95E-6	
7.50000	76.68750	89.00000	-1.7091	88.600	0.10605	-0.15759	11.194E-6	
7.50000	77.87500	89.00000	-1.5753	88.600	0.060544	-0.28999	11.097E-6	
7.50000	79.06250	89.00000	-1.4431	88.600	0.036402	-0.34490	10.685E-6	
7.50000	80.25000	89.00000	-1.3174	88.600	0.022824	-0.35993	10.080E-6	
7.50000	81.43750	89.00000	-1.2002	88.600	0.014917	-0.35417	9.3811E-6	
7.50000	82.62500	89.00000	-1.0920	88.600	0.0099049	-0.33835	8.6603E-6	
7.50000	83.81250	89.00000	-0.99281	88.600	0.0067902	-0.31755	7.9511E-6	
7.50000	85.00000	89.00000	-0.90214	88.600	0.0047580	-0.29502	7.2776E-6	
8.75000	-10.00000	89.00000	-0.49824	88.600	-38.322E-6	-0.13733	3.2285E-6	
8.75000	-8.81250	89.00000	-0.58350	88.600	-103.61E-6	-0.17998	4.2275E-6	
8.75000	-7.62500	89.00000	-0.69150	88.600	-290.20E-6	-0.25031	5.8692E-6	
8.75000	-6.43750	89.00000	-0.83352	88.600	-876.63E-6	-0.37723	8.8140E-6	
8.75000	-5.25000	89.00000	-1.0327	88.600	-0.0030326	-0.63594	14.749E-6	
8.75000	-4.06250	89.00000	-1.3443	88.600	-0.013315	-1.2653	28.832E-6	
8.75000	-2.87500	89.00000	-1.8959	88.600	-0.09452	-3.3226	71.498E-6	
8.75000	-1.68750	89.00000	-3.1384	88.600	-2.8644	-16.862	194.56E-6	
8.75000	-0.50000	89.00000	-6.1472	88.600	-44.039	-75.220	-0.0013387	
8.75000	0.68750	89.00000	-4.8174	88.600	-14.633	-38.378	-129.89E-6	
8.75000	1.87500	89.00000	-4.6021	88.600	-13.467	-32.416	-187.85E-6	
8.75000	3.06250	89.00000	-4.6201	88.600	-13.411	-31.528	-204.84E-6	
8.75000	4.25000	89.00000	-4.6953	88.600	-13.403	-31.309	-209.38E-6	
8.75000	5.43750	89.00000	-4.7822	88.600	-13.401	-31.243	-210.80E-6	
8.75000	6.62500	89.00000	-4.8693	88.600	-13.400	-31.220	-211.29E-6	
8.75000	7.81250	89.00000	-4.9556	88.600	-13.400	-31.212	-211.44E-6	
8.75000	9.00000	89.00000	-5.0437	88.600	-13.399	-31.214	-211.40E-6	
8.75000	10.18750	89.00000	-5.1370	88.600	-13.399	-31.225	-211.14E-6	
8.75000	11.37500	89.00000	-5.2387	88.600	-13.399	-31.247	-210.61E-6	
8.75000	12.56250	89.00000	-5.3508	88.600	-13.399	-31.280	-209.83E-6	
8.75000	13.75000	89.00000	-5.4743	88.600	-13.400	-31.323	-208.85E-6	
8.75000	14.93750	89.00000	-5.6090	88.600	-13.400	-31.371	-207.72E-6	
8.75000	16.12500	89.00000	-5.7594	88.600	-13.			



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore East Side
CASE 4- Undrained Movements

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
8.75000	47.00000	89.00000	-9.7513	88.600	-0.24173	-6.2485	129.96E-6	
8.75000	48.18750	89.00000	-9.5255	88.600	-0.23417	-6.0543	125.93E-6	
8.75000	49.37500	89.00000	-9.3435	88.600	-0.21971	-5.8226	121.49E-6	
8.75000	50.56250	89.00000	-9.1892	88.600	-0.19350	-5.5057	115.89E-6	
8.75000	51.75000	89.00000	-9.0473	88.600	-0.14542	-5.0433	108.40E-6	
8.75000	52.93750	89.00000	-8.8964	88.600	-0.052235	-3.3400	88.361E-6	
8.75000	54.12500	89.00000	-8.6980	88.600	0.13555	-3.2288	85.539E-6	
8.75000	55.31250	89.00000	-8.3807	88.600	0.55584	-1.3943	72.044E-6	
8.75000	56.50000	89.00000	-7.8265	88.600	1.5851	1.7824	69.954E-6	
8.75000	57.68750	89.00000	-6.8340	88.600	4.3276	7.5008	128.99E-6	
8.75000	58.87500	89.00000	-5.0505	88.600	11.542	17.599	410.65E-6	
8.75000	60.06250	89.00000	-0.52268	88.600	25.410	32.349	0.0010325	
8.75000	61.25000	89.00000	2.8868	88.600	38.691	46.572	0.0016353	
8.75000	62.43750	89.00000	4.5392	88.600	45.151	55.553	0.0018800	
8.75000	63.62500	89.00000	5.3925	88.600	47.368	59.779	0.0019371	
8.75000	64.81250	89.00000	5.9251	88.600	47.701	60.955	0.0019397	
8.75000	66.00000	89.00000	5.5720	88.600	46.545	58.523	0.0019085	
8.75000	67.18750	89.00000	4.8528	88.600	42.543	52.417	0.0017697	
8.75000	68.37500	89.00000	3.3651	88.600	32.497	40.938	0.0013307	
8.75000	69.56250	89.00000	1.3805	88.600	17.520	26.071	623.28E-6	
8.75000	70.75000	89.00000	-0.17801	88.600	7.0490	14.592	165.93E-6	
8.75000	71.93750	89.00000	-1.0210	88.600	2.6874	7.1520	21.419E-6	
8.75000	73.12500	89.00000	-1.3951	88.600	1.0991	3.5704	-6.4281E-6	
8.75000	74.31250	89.00000	-1.5214	88.600	0.49413	1.7456	-6.1926E-6	
8.75000	75.50000	89.00000	-1.5241	88.600	0.24283	0.79921	-1.6642E-6	
8.75000	76.68750	89.00000	-1.4869	88.600	0.12879	0.29756	-2.0893E-6	
8.75000	77.87500	89.00000	-1.3824	88.600	0.072782	0.027820	4.4803E-6	
8.75000	79.06250	89.00000	-1.2871	88.600	0.043335	-0.11697	5.8112E-6	
8.75000	80.25000	89.00000	-1.1896	88.600	0.026942	-0.19246	6.4302E-6	
8.75000	81.43750	89.00000	-1.0944	88.600	0.017367	-0.22865	6.6059E-6	
8.75000	82.62500	89.00000	-1.0137	88.600	0.011543	-0.24208	6.5152E-6	
8.75000	83.81250	89.00000	-0.91852	88.600	0.0078762	-0.24296	6.2726E-6	
8.75000	85.00000	89.00000	-0.83924	88.600	0.0054978	-0.23630	5.9480E-6	
10.00000	-10.00000	89.00000	-0.49959	88.600	-18.159E-6	-0.13560	3.1893E-6	
10.00000	-8.81250	89.00000	-0.58468	88.600	-58.975E-6	-0.17616	4.1403E-6	
10.00000	-7.62500	89.00000	-0.68205	88.600	-184.63E-6	-0.24205	6.6823E-6	
10.00000	-6.43750	89.00000	-0.83160	88.600	-605.51E-6	-0.35931	8.4115E-6	
10.00000	-5.25000	89.00000	-1.0263	88.600	-0.0022669	-0.59648	13.875E-6	
10.00000	-4.06250	89.00000	-1.3264	88.600	-0.010974	-1.1782	26.948E-6	
10.00000	-2.87500	89.00000	-1.8681	88.600	-0.087859	-3.1462	67.828E-6	
10.00000	-1.68750	89.00000	-2.8031	88.600	-2.8815	-16.004	89.41E-6	
10.00000	-0.50000	89.00000	-6.1216	88.600	-44.027	-75.007	-0.0013429	
10.00000	0.68750	89.00000	-4.8085	88.600	-14.627	-38.276	-131.92E-6	
10.00000	1.87500	89.00000	-4.6021	88.600	-13.465	-32.382	-188.54E-6	
10.00000	3.06250	89.00000	-4.6201	88.600	-13.411	-31.514	-205.07E-6	
10.00000	4.25000	89.00000	-4.6891	88.600	-13.402	-31.298	-209.63E-6	
10.00000	5.43750	89.00000	-4.7649	88.600	-13.400	-31.219	-211.34E-6	
10.00000	6.62500	89.00000	-4.8367	88.600	-13.400	-31.174	-212.35E-6	
10.00000	7.81250	89.00000	-4.9044	88.600	-13.399	-31.136	-213.21E-6	
10.00000	9.00000	89.00000	-4.9726	88.600	-13.398	-31.099	-213.95E-6	
10.00000	10.18750	89.00000	-5.0479	88.600	-13.398	-31.085	-214.36E-6	
10.00000	11.37500	89.00000	-5.1361	88.600	-13.398	-31.090	-214.23E-6	
10.00000	12.56250	89.00000	-5.2396	88.600	-13.398	-31.119	-213.56E-6	
10.00000	13.75000	89.00000	-5.3579	88.600	-13.399	-31.164	-212.53E-6	
10.00000	14.93750	89.00000	-5.4775	88.600	-13.399	-31.211	-211.31E-6	
10.00000	16.12500	89.00000	-5.6364	88.600	-13.399	-31.273	-209.99E-6	
10.00000	17.31250	89.00000	-5.7988	88.600	-13.399	-31.334	-208.57E-6	
10.00000	18.50000	89.00000	-5.9810	88.600	-13.400	-31.401	-207.01E-6	
10.00000	19.68750	89.00000	-6.1886	88.600	-13.400	-31.479	-205.20E-6	
10.00000	20.87500	89.00000	-6.4293	88.600	-13.400	-31.574	-202.98E-6	
10.00000	22.06250	89.00000	-6.7139	88.600	-13.401	-31.697	-200.12E-6	
10.00000	23.25000	89.00000	-7.0577	88.600	-13.402	-31.865	-196.23E-6	
10.00000	24.43750	89.00000	-7.4831	88.600	-13.403	-32.106	-190.65E-6	
10.00000	25.62500	89.00000	-8.0263	88.600	-13.406	-32.400	-182.05E-6	
10.00000	26.81250	89.00000	-8.6927	88.600	-13.413	-32.757	-167.52E-6	
10.00000	28.00000	89.00000	-9.4780	88.600	-13.438	-34.396	-139.24E-6	
10.00000	29.18750	89.00000	-11.442	88.600	-13.613	-37.862	-70.051E-6	
10.00000	30.37500	89.00000	-14.010	88.600	-21.191	-58.783	-112.70E-6	
10.00000	31.56250	89.00000	-20.415	88.600	-47.413	-100.76	-976.00E-6	
10.00000	32.75000	89.00000	-22.168	88.600	-47.941	-102.65	-877.13E-6	
10.00000	33.93750	89.00000	-22.778	88.600	-47.988	-108.00	-846.27E-6	
10.00000	35.12500	89.00000	-22.687	88.600	-47.996	-108.24	-841.05E-6	
10.00000	36.31250	89.00000	-22.107	88.600	-47.996	-107.85	-850.26E-6	
10.00000	37.50000	89.00000	-21.101	88.600	-47.985	-106.76	-875.30E-6	
10.00000	38.68750	89.00000	-19.287	88.600	-47.959	-103.29	-945.55E-6	
10.00000	39.87500	89.00000	-18.122	88.600	-41.870	-81.081	-0.0010477	
10.00000	41.06250	89.00000	-16.161	88.600	-0.87409	-15.525	303.60E-6	
10.00000	42.25000	89.00000	-15.131	88.600	-0.16692	-7.5897	166.80E-6	
10.00000	43.43750	89.00000	-14.436	88.600	-0.12347	-5.7092	125.62E-6	
10.00000	44.62500	89.00000	-13.951	88.600	-0.11699	-4.9966	109.32E-6	
10.00000	45.81250	89.00000	-13.594	88.600	-0.11401	-4.6408	101.15E-6	
10.00000	47.00000	89.00000	-13.321	88.600	-0.10951	-4.4045	95.905E-6	
10.00000	48.18750	89.00000	-13.105	88.600	-0.10116	-4.1907	91.463E-6	
10.00000	49.37500	89.00000	-12.929	88.600	-0.086290	-3.9440	86.708E-6	
10.00000	50.56250	89.00000	-12.782	88.600	-0.05954	-3.1295	-0.849E-6	
10.00000	51.75000	89.00000	-12.656	88.600	-0.012104	-3.1460	73.170E-6	
10.00000	52.93750	89.00000	-12.543	88.600	0.079216	-2.4397	62.997E-6	
10.00000	54.12500	89.00000	-12.409	88.600	0.26573	-1.3317	50.092E-6	
10.00000	55.31250	89.00000	-12.138	88.600	0.68026	0.48821	36.531E-6	
10.00000	56.50000	89.00000	-11.654	88.600	1.6950	3.6297	24.235E-6	
10.00000	57.68750	89.00000	-10.400	88.600	4.4019	9.2760	92.467E-6	
10.00000	58.87500	89.00000	-8.1155	88.600	11.543	19.248	361.88E-6	
10.00000	60.06250	89.00000	-2.0363	88.600	25.298	33.825	989.83E-6	
10.00000	61.25000	89.00000	2.7787	88.600	38.470	47.876	0.0015890	
10.00000	62.43750	89.00000	4.8779	88.600	44.861	56.727	0.001319	
10.00000	63.62500	89.00000	5.8695	88.600	47.048	60.873	0.0018888	
10.00000	64.81250	89.00000	6.2492	88.600	47.375	61.711	0.0018921	
10.00000	66.00000	89.00000	6.1264	88.600	46.233	59.546	0.0018624	
10.00000	67.18750	89.00000	5.4092	88.600	42.273	53.444	0.0017265	
10.00000	68.37500	89.00000	4.9120	88.600	32.313	41.921	0.0012929	
10.00000	69.56250	89.00000	1.9046	88.600	17.441	27.140	592.53E-6	
10.00000	70.75000	89.00000	0.30535	88.600	7.0454	15.109	141.81E-6	
10.00000	71.93750	89.00000	-0.59502	88.600	2.7149	8.0391	2.4885E-6	
10.00000	73.12500	89.00000	-1.0336	88.600	1.1280	4.2864	-21.231E-6	
10.00000	74.31250	89.00000	-1.7524	88.600	0.5157	2.2949	-17.605E-6	
10.00000	75.50000	89.00000	-1.2771	88.600	0.25682	1.2104	-10.353E-6	
10.00000	76.68750	89.00000	-1.2636	88.600	0.13756	0.60374	-4.4959E-6	
10.00000	77.87500	89.00000	-1.2143	88.600	0.078255	0.25703	0.0	
10.00000	79.06250	89.00000	-1.1473	88.600	0.046807	0.056455	1.9757E-6	
10.00000	80.25000	89.00000	-1.0726	88.600	0.029195	-0.059800	3.4627E-6	
10.00000	81.43750	89.00000	-0.99584	88.600	0.018865	-0.12554	4.2855E-6	
10.00000	82.62500	89.00000	-0.92021	88.600	0.012562	-0.16131	4.6822E-6	
10.00000	83.81250	89.00000	-0.84743	88.600	0.0085848	-0.17865	4.8095E-6	
10.00000	85.00000	89.00000	-0.77842	88.600	0.0060004	-0.18471	4.7697E-6	
11.25000	-0.00000	89.00000	-0.49448	88.600	15.628E-6	-0.1957	0.0019475	
11.25000	-8.81250	89.0						



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore East Side
CASE 4- Undrained Movements

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [m]	Z [mm]	Stresses			Vert Strain [-]
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
11.25000	22.06250	89.00000	-6.4595	88.600	-13.398	-31.364	-207.80E-6	
11.25000	23.25000	89.00000	-6.7894	88.600	-13.399	-31.519	-204.19E-6	
11.25000	24.43750	89.00000	-7.1979	88.600	-13.400	-31.743	-199.02E-6	
11.25000	25.62500	89.00000	-7.7218	88.600	-13.403	-32.088	-191.08E-6	
11.25000	26.81250	89.00000	-8.4288	88.600	-13.410	-32.683	-177.54E-6	
11.25000	28.00000	89.00000	-9.4619	88.600	-13.394	-32.895	-150.76E-6	
11.25000	29.18750	89.00000	-11.184	88.600	-13.608	-37.263	-83.767E-6	
11.25000	30.37500	89.00000	-14.806	88.600	-21.184	-58.052	-129.39E-6	
11.25000	31.56250	89.00000	-20.723	88.600	-47.402	-99.859	-996.43E-6	
11.25000	32.75000	89.00000	-22.508	88.600	-47.926	-105.41	-902.79E-6	
11.25000	33.93750	89.00000	-22.893	88.600	-47.957	-106.98	-882.08E-6	
11.25000	35.12500	89.00000	-22.169	88.600	-47.893	-105.46	-899.37E-6	
11.25000	36.31250	89.00000	-20.834	88.600	-47.784	-103.59	-935.56E-6	
11.25000	37.50000	89.00000	-19.589	88.600	-47.739	-101.92	-971.68E-6	
11.25000	38.68750	89.00000	-18.000	88.600	-47.614	-98.723	-0.0010381	
11.25000	39.87500	89.00000	-17.161	88.600	-41.683	-77.448	-0.0011200	
11.25000	41.06250	89.00000	-15.406	88.600	-0.78830	-13.374	259.03E-6	
11.25000	42.25000	89.00000	-14.575	88.600	-0.10912	-6.1304	136.54E-6	
11.25000	43.43750	89.00000	-14.003	88.600	-0.068306	-4.4625	100.18E-6	
11.25000	44.62500	89.00000	-13.588	88.600	-0.060853	-3.8094	85.337E-6	
11.25000	45.81250	89.00000	-13.273	88.600	-0.056988	-3.4661	77.833E-6	
11.25000	47.00000	89.00000	-13.024	88.600	-0.051920	-3.2286	72.302E-6	
11.25000	48.18750	89.00000	-12.824	88.600	-0.043464	-3.0115	67.791E-6	
11.25000	49.37500	89.00000	-12.660	88.600	-0.029052	-2.7643	62.991E-6	
11.25000	50.56250	89.00000	-12.528	88.600	-0.0041035	-2.4420	57.170E-6	
11.25000	51.75000	89.00000	-12.438	88.600	0.12436	1.9488	49.633E-6	
11.25000	52.93750	89.00000	-12.439	88.600	0.12458	-1.3187	39.821E-6	
11.25000	54.12500	89.00000	-12.636	88.600	0.29394	-0.28329	27.414E-6	
11.25000	55.31250	89.00000	-12.725	88.600	0.66575	1.3922	14.236E-6	
11.25000	56.50000	89.00000	-12.268	88.600	1.5687	4.2449	10.855E-6	
11.25000	57.68750	89.00000	-11.143	88.600	3.8921	9.3288	61.732E-6	
11.25000	58.87500	89.00000	-8.8314	88.600	10.434	18.275	306.52E-6	
11.25000	60.06250	89.00000	-2.6489	88.600	23.033	31.408	886.88E-6	
11.25000	61.25000	89.00000	2.2644	88.600	35.088	44.052	0.0014403	
11.25000	62.43750	89.00000	4.3860	88.600	40.852	51.970	0.0016608	
11.25000	63.62500	89.00000	6.6430	88.600	42.797	58.561	0.0017113	
11.25000	64.81250	89.00000	5.7990	88.600	43.085	56.395	0.0017144	
11.25000	66.00000	89.00000	5.7193	88.600	42.071	54.440	0.0016888	
11.25000	67.18750	89.00000	5.0892	88.600	38.525	48.955	0.0015676	
11.25000	68.37500	89.00000	3.7194	88.600	28.461	38.624	0.0011708	
11.25000	69.56250	89.00000	1.9310	88.600	15.810	23.173	0.0007226	
11.25000	70.75000	89.00000	0.44876	88.600	6.3405	14.277	111.63E-6	
11.25000	71.93750	89.00000	-0.38623	88.600	2.4530	7.8465	-11.470E-6	
11.25000	73.12500	89.00000	-0.81072	88.600	1.0356	4.3726	-29.785E-6	
11.25000	74.31250	89.00000	-1.0104	88.600	0.48356	2.4734	-24.063E-6	
11.25000	75.50000	89.00000	-1.0880	88.600	0.04612	1.4004	-15.577E-6	
11.25000	76.68750	89.00000	-1.0985	88.600	0.13437	0.77539	-8.7597E-6	
11.25000	77.87500	89.00000	-1.0718	88.600	0.07764	0.40255	-3.9893E-6	
11.25000	79.06250	89.00000	-1.0249	88.600	0.047064	0.17654	0.0	
11.25000	80.25000	89.00000	-0.96754	88.600	0.026757	0.034657	1.1892E-6	
11.25000	81.43750	89.00000	-0.90561	88.600	0.019336	-0.045704	2.4403E-6	
11.25000	82.62500	89.00000	-0.84255	88.600	0.012968	-0.096189	3.1787E-6	
11.25000	83.81250	89.00000	-0.78042	88.600	0.0089151	-0.12535	3.5786E-6	
11.25000	85.00000	89.00000	-0.72045	88.600	0.0062629	-0.14087	3.7567E-6	
12.50000	-8.81250	89.00000	-0.46163	88.600	57.150E-6	-0.120313	2.8350E-6	
12.50000	-7.62500	89.00000	-0.56116	88.600	118.43E-6	-0.14787	3.4876E-6	
12.50000	-6.43750	89.00000	-0.65516	88.600	277.89E-6	-0.18621	4.4010E-6	
12.50000	-5.25000	89.00000	-0.77103	88.600	789.45E-6	-0.23931	5.6865E-6	
12.50000	-4.06250	89.00000	-0.91639	88.600	0.0030187	-0.30445	7.3766E-6	
12.50000	-2.87500	89.00000	-1.1007	88.600	0.019211	-0.34905E-6	8.4495E-6	
12.50000	-1.68750	89.00000	-1.3198	88.600	0.38227	0.96552	4.2657E-6	
12.50000	-0.50000	89.00000	-0.92214	88.600	21.681	19.189	0.0010789	
12.50000	0.68750	89.00000	-3.7653	88.600	-17.200	-35.312	-383.24E-6	
12.50000	1.87500	89.00000	-4.1362	88.600	-13.736	-32.550	-203.71E-6	
12.50000	3.06250	89.00000	-4.2932	88.600	-13.423	-31.278	-211.56E-6	
12.50000	4.25000	89.00000	-4.4104	88.600	-13.404	-31.094	-214.53E-6	
12.50000	5.43750	89.00000	-4.4919	88.600	-13.400	-31.013	-216.17E-6	
12.50000	6.62500	89.00000	-4.5401	88.600	-13.398	-30.912	-218.42E-6	
12.50000	7.81250	89.00000	-4.5557	88.600	-13.396	-30.748	-222.14E-6	
12.50000	9.00000	89.00000	-4.5379	88.600	-13.391	-30.619	-228.30E-6	
12.50000	10.18750	89.00000	-4.4961	88.600	-13.381	-30.558	-237.28E-6	
12.50000	11.37500	89.00000	-4.4718	88.600	-13.370	-30.675	-245.50E-6	
12.50000	12.56250	89.00000	-4.5147	88.600	-13.369	-30.585	-247.58E-6	
12.50000	13.75000	89.00000	-4.6201	88.600	-13.375	-29.724	-244.72E-6	
12.50000	14.93750	89.00000	-4.7532	88.600	-13.379	-29.878	-241.02E-6	
12.50000	16.12500	89.00000	-4.8950	88.600	-13.381	-30.024	-238.09E-6	
12.50000	17.31250	89.00000	-5.0431	88.600	-13.382	-30.121	-235.88E-6	
12.50000	18.50000	89.00000	-5.2007	88.600	-13.382	-30.199	-234.07E-6	
12.50000	19.68750	89.00000	-5.3729	88.600	-13.383	-30.272	-232.39E-6	
12.50000	20.87500	89.00000	-5.5658	88.600	-13.383	-30.347	-230.64E-6	
12.50000	22.06250	89.00000	-5.7867	88.600	-13.383	-30.433	-228.63E-6	
12.50000	23.25000	89.00000	-6.0456	88.600	-13.384	-30.540	-226.15E-6	
12.50000	24.43750	89.00000	-6.3563	88.600	-13.384	-30.681	-222.86E-6	
12.50000	25.62500	89.00000	-6.7403	88.600	-13.385	-30.862	-218.22E-6	
12.50000	26.81250	89.00000	-7.2339	88.600	-13.388	-31.191	-211.12E-6	
12.50000	28.00000	89.00000	-7.9042	88.600	-13.394	-31.724	-198.98E-6	
12.50000	29.18750	89.00000	-8.9104	88.600	-13.417	-32.828	-174.63E-6	
12.50000	30.37500	89.00000	-10.701	88.600	-13.587	-36.009	-111.80E-6	
12.50000	31.56250	89.00000	-15.037	88.600	-21.155	-56.505	-163.76E-6	
12.50000	32.75000	89.00000	-23.790	88.600	-47.364	-97.966	-0.0010383	
12.50000	33.93750	89.00000	-25.673	88.600	-47.878	-103.13	-953.03E-6	
12.50000	35.12500	89.00000	-25.679	88.600	-47.853	-103.10	-952.01E-6	
12.50000	36.31250	89.00000	-23.215	88.600	-44.458	-92.207	-968.61E-6	
12.50000	37.50000	89.00000	-19.955	88.600	-26.908	-63.164	-413.20E-6	
12.50000	38.68750	89.00000	-16.204	88.600	-26.610	-59.258	-481.18E-6	
12.50000	39.87500	89.00000	-12.862	88.600	-26.521	-56.809	-535.39E-6	
12.50000	41.06250	89.00000	-11.602	88.600	-23.280	-44.629	-593.21E-6	
12.50000	42.25000	89.00000	-9.7530	88.600	-0.44092	-9.0513	181.85E-6	
12.50000	43.43750	89.00000	-9.0634	88.600	-0.065451	-4.6476	104.74E-6	
12.50000	44.62500	89.00000	-8.4375	88.600	0.03170	-3.5969	78.794E-6	
12.50000	45.81250	89.00000	-8.2481	88.600	-0.033043	-2.9481	67.034E-6	
12.50000	47.00000	89.00000	-7.9742	88.600	-0.029133	-2.6499	60.293E-6	
12.50000	48.18750	89.00000	-7.7525	88.600	-0.024059	-2.4297	55.470E-6	
12.50000	49.37500	89.00000	-7.5699	88.600	-0.016027	-2.2226	51.164E-6	
12.50000	50.56250	89.00000	-7.4195	88.600	-0.0027951	-1.9871	46.557E-6	
12.50000	51.75000	89.00000	-7.3027	88.600	0.019553	-1.6848	41.024E-6	
12.50000	52.93750	89.00000	-7.2452	88.600	0.058644	-1.2683	33.981E-6	
12.50000	54.12500	89.00000	-7.3830	88.600	0.13045	-0.66572	24.873E-6	
12.50000	55.31250	89.00000	-8.8537	88.600	0.27113	0.24248	13.433E-6	
12.50000	56.50000	89.00000	-11.527	88.600	0.57008	1.6710	0.0	
12.50000	57.68750	89.00000	-10.367	88.600	3.0794	8.0673	27.549E-6	
12.50000	58.87500	89.00000	-8.4405	88.600	7.7959	14.965	198.19E-6	
12.50000	60.06250	89.00000	-2.9827	88.600	16.919	24.886	608.74E-6	
12.50000	61.25000	89.00000	3.2500	88.600	25.648	34.827	0.0010004	
12.50000	62.43750	89.00000	3.0215	88.600	29.860	40.487	0.0011551	
12.50000								



SOUTHERN TESTING LABORATORIES

Kidderpore East Side
CASE 4- Undrained Movements

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [moD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
13.75000	-2.87500	89.00000	-0.99749	88.600	0.59052	3.0695	-30.539E-6	
13.75000	-1.68750	89.00000	-0.11613	88.600	26.057	30.802	0.001114E-6	
13.75000	-0.50000	89.00000	-2.8899	88.600	-12.316	-22.413	-342.01E-6	
13.75000	0.68750	89.00000	-3.7294	88.600	-13.380	-29.708	-245.44E-6	
13.75000	1.87500	89.00000	-4.0666	88.600	-13.400	-30.613	-225.60E-6	
13.75000	3.06250	89.00000	-4.2296	88.600	-13.400	-30.777	-221.68E-6	
13.75000	4.25000	89.00000	-4.3075	88.600	-13.398	-30.742	-222.42E-6	
13.75000	5.43750	89.00000	-4.3254	88.600	-13.396	-30.578	-226.10E-6	
13.75000	6.62500	89.00000	-4.2834	88.600	-13.390	-30.239	-233.68E-6	
13.75000	7.81250	89.00000	-4.1570	88.600	-13.368	-29.479	-250.02E-6	
13.75000	9.00000	89.00000	-3.9032	88.600	-12.223	-27.442	-287.69E-6	
13.75000	10.18750	89.00000	-3.6388	88.600	-12.913	-24.578	-333.18E-6	
13.75000	11.37500	89.00000	-3.6474	88.600	-12.929	-24.424	-337.97E-6	
13.75000	12.56250	89.00000	-3.8371	88.600	-13.033	-25.479	-320.43E-6	
13.75000	13.75000	89.00000	-4.0299	88.600	-13.062	-26.078	-308.41E-6	
13.75000	14.93750	89.00000	-4.1974	88.600	-13.068	-26.353	-302.12E-6	
13.75000	16.12500	89.00000	-4.3535	88.600	-13.070	-26.500	-299.08E-6	
13.75000	17.31250	89.00000	-4.5105	88.600	-13.071	-26.597	-296.85E-6	
13.75000	18.50000	89.00000	-4.6770	88.600	-13.072	-26.675	-295.05E-6	
13.75000	19.68750	89.00000	-4.8602	88.600	-13.072	-26.749	-293.32E-6	
13.75000	20.87500	89.00000	-5.0671	88.600	-13.072	-26.810	-291.48E-6	
13.75000	22.06250	89.00000	-5.3085	88.600	-13.072	-26.927	-289.19E-6	
13.75000	23.25000	89.00000	-5.5951	88.600	-13.073	-27.052	-286.28E-6	
13.75000	24.43750	89.00000	-5.9463	88.600	-13.074	-27.226	-282.25E-6	
13.75000	25.62500	89.00000	-6.3937	88.600	-13.076	-27.489	-276.19E-6	
13.75000	26.81250	89.00000	-6.9381	88.600	-13.081	-27.938	-265.98E-6	
13.75000	28.00000	89.00000	-7.9080	88.600	-13.100	-28.861	-245.61E-6	
13.75000	29.18750	89.00000	-9.5630	88.600	-13.253	-31.596	-192.11E-6	
13.75000	30.37500	89.00000	-13.819	88.600	-20.741	-50.987	-264.38E-6	
13.75000	31.56250	89.00000	-22.550	88.600	-46.837	-91.083	-0.0011630	
13.75000	32.75000	89.00000	-47.316	88.600	-130.316	-243.50	-0.0010921	
13.75000	33.93750	89.00000	-24.048	88.600	-47.247	-94.751	-0.0011056	
13.75000	35.12500	89.00000	-20.756	88.600	-40.073	-74.423	-0.0010776	
13.75000	36.31250	89.00000	-11.643	88.600	-0.87571	-16.248	320.50E-6	
13.75000	37.50000	89.00000	-9.6227	88.600	-0.35516	-10.952	233.34E-6	
13.75000	38.68750	89.00000	-8.6039	88.600	-0.31029	-9.3000	196.97E-6	
13.75000	39.87500	89.00000	-7.8563	88.600	-0.21986	-7.2001	153.89E-6	
13.75000	41.06250	89.00000	-7.2238	88.600	-0.076976	-4.7036	105.24E-6	
13.75000	42.25000	89.00000	-6.7408	88.600	-0.032364	-3.3173	75.769E-6	
13.75000	43.43750	89.00000	-6.3744	88.600	-0.022065	-2.6570	60.961E-6	
13.75000	44.62500	89.00000	-6.0863	88.600	-0.017960	-2.1790	52.700E-6	
13.75000	45.81250	89.00000	-5.8518	88.600	-0.014464	-2.0547	47.324E-6	
13.75000	47.00000	89.00000	-5.6566	88.600	-0.0097632	-1.8624	43.132E-6	
13.75000	48.18750	89.00000	-5.4919	88.600	-0.0025270	-1.6743	39.217E-6	
13.75000	49.37500	89.00000	-5.3534	88.600	0.0090468	-1.4533	34.975E-6	
13.75000	50.56250	89.00000	-5.2435	88.600	0.028089	-1.1872	29.914E-6	
13.75000	51.75000	89.00000	-5.1827	88.600	0.060283	-0.82044	23.560E-6	
13.75000	52.93750	89.00000	-5.2582	88.600	0.11737	-0.30463	15.453E-6	
13.75000	54.12500	89.00000	-5.7489	88.600	0.22417	0.44666	5.3141E-6	
13.75000	55.31250	89.00000	-6.4235	88.600	0.43780	1.5783	-6.2336E-6	
13.75000	56.50000	89.00000	-6.0002	88.600	0.89891	3.3398	-15.131E-6	
13.75000	57.68750	89.00000	-5.3123	88.600	1.9617	6.1439	-6.0891E-6	
13.75000	58.87500	89.00000	-4.0544	88.600	4.3622	10.498	60.904E-6	
13.75000	60.06250	89.00000	-1.9689	88.600	8.4925	16.286	216.27E-6	
13.75000	61.25000	89.00000	0.03570	88.600	21.847	36.610	566.10E-6	
13.75000	62.43750	89.00000	0.2177	88.600	14.624	25.617	429.56E-6	
13.75000	63.62500	89.00000	1.8830	88.600	15.461	27.534	443.51E-6	
13.75000	64.81250	89.00000	2.2019	88.600	15.594	27.938	443.40E-6	
13.75000	66.00000	89.00000	2.2372	88.600	15.138	26.912	435.33E-6	
13.75000	67.18750	89.00000	1.3754	88.600	24.205	39.439	498.49E-6	
13.75000	68.37500	89.00000	1.4134	88.600	10.569	19.548	286.13E-6	
13.75000	69.56250	89.00000	0.66939	88.600	6.1675	13.744	111.96E-6	
13.75000	70.75000	89.00000	0.020601	88.600	2.8876	8.7513	-2.0860E-6	
13.75000	71.93750	89.00000	-0.40448	88.600	1.3056	5.4112	-35.159E-6	
13.75000	73.12500	89.00000	-0.61489	88.600	0.67703	3.4752	-34.752E-6	
13.75000	74.31250	89.00000	-0.78491	88.600	0.32454	2.1005	-26.515E-6	
13.75000	75.50000	89.00000	-0.84704	88.600	0.17941	1.3161	-18.304E-6	
13.75000	76.68750	89.00000	-0.86518	88.600	0.10471	0.81701	-11.832E-6	
13.75000	77.87500	89.00000	-0.85595	88.600	0.063907	0.49405	-7.1137E-6	
13.75000	79.06250	89.00000	-0.82983	88.600	0.042822	0.28248	-3.7890E-6	
13.75000	80.25000	89.00000	-0.79354	88.600	0.026467	0.14279	-1.4914E-6	
13.75000	81.43750	89.00000	-0.75147	88.600	0.017781	0.050273	0.0	
13.75000	82.62500	89.00000	-0.70650	88.600	0.012232	-0.010828	1.1182E-6	
13.75000	83.81250	89.00000	-0.66055	88.600	0.0085912	-0.050774	1.8011E-6	
13.75000	85.00000	89.00000	-0.61489	88.600	0.0051466	-0.076348	2.2303E-6	
15.00000	-10.00000	89.00000	-0.44936	88.600	130.32E-6	-0.098267	2.3214E-6	
15.00000	-8.81250	89.00000	-0.51463	88.600	287.69E-6	-0.11030	2.6156E-6	
15.00000	-7.62500	89.00000	-0.58970	88.600	708.58E-6	-0.11806	2.8279E-6	
15.00000	-6.43750	89.00000	-0.67439	88.600	0.0020396	-0.10535	2.6228E-6	
15.00000	-5.25000	89.00000	-0.76580	88.600	0.0074397	-0.10294	0.0	
15.00000	-4.06250	89.00000	-0.83636	88.600	0.041208	0.46315	-7.9888E-6	
15.00000	-2.87500	89.00000	-0.80468	88.600	0.61529	3.7226	-44.158E-6	
15.00000	-1.68750	89.00000	-0.67528	88.600	26.128	32.050	0.0010902	
15.00000	-0.50000	89.00000	-2.5834	88.600	-12.240	-21.083	-367.92E-6	
15.00000	0.68750	89.00000	-3.4715	88.600	-13.349	-28.912	-252.01E-6	
15.00000	1.87500	89.00000	-3.8473	88.600	-13.393	-30.180	-235.27E-6	
15.00000	3.06250	89.00000	-4.0097	88.600	-13.397	-30.425	-229.76E-6	
15.00000	4.25000	89.00000	-4.0567	88.600	-13.394	-30.322	-232.01E-6	
15.00000	5.43750	89.00000	-4.0196	88.600	-13.388	-29.989	-239.44E-6	
15.00000	6.62500	89.00000	-3.9909	88.600	-13.374	-29.323	-254.33E-6	
15.00000	7.81250	89.00000	-3.9554	88.600	-13.300	-27.567	-290.18E-6	
15.00000	9.00000	89.00000	-2.7662	88.600	-10.071	-15.322	-350.37E-6	
15.00000	10.18750	89.00000	-0.33747	88.600	26.952	35.213	0.0010740	
15.00000	11.37500	89.00000	-0.62393	88.600	21.979	28.201	887.94E-6	
15.00000	12.56250	89.00000	-1.6412	88.600	10.681	12.693	106.15E-6	
15.00000	13.75000	89.00000	-1.9808	88.600	10.488	8.4738	540.94E-6	
15.00000	14.93750	89.00000	-2.1905	88.600	10.471	7.9456	552.16E-6	
15.00000	16.12500	89.00000	-2.3575	88.600	10.467	7.7312	556.95E-6	
15.00000	17.31250	89.00000	-2.5137	88.600	10.466	7.6136	559.64E-6	
15.00000	18.50000	89.00000	-2.6734	88.600	10.465	7.5005	561.57E-6	
15.00000	19.68750	89.00000	-2.8456	88.600	10.465	7.4579	563.25E-6	
15.00000	20.87500	89.00000	-3.0377	88.600	10.465	7.3832	564.99E-6	
15.00000	22.06250	89.00000	-3.2577	88.600	10.465	7.2972	567.00E-6	
15.00000	23.25000	89.00000	-3.5161	88.600	10.464	7.1894	569.50E-6	
15.00000	24.43750	89.00000	-3.8277	88.600	10.464	7.0441	572.87E-6	
15.00000	25.62500	89.00000	-4.2169	88.600	10.462	6.8315	577.77E-6	
15.00000	26.81250	89.00000	-4.7282	88.600	10.459	6.4862	585.65E-6	
15.00000	28.00000	89.00000	-5.4593	88.600	10.446	5.8239	600.35E-6	
15.00000	29.18750	89.00000	-6.5766	88.600	10.359	4.0771	635.28E-6	
15.00000	30.37500	89.00000	-9.3460	88.600	6.5709	-6.3679	613.64E-6	
15.00000	31.56250	89.00000	-14.248	88.600	-6.5384	-27.264	179.97E-6	
15.00000	32.75000	89.00000	-15.380	88.600	-6.7949	-29.844	222.57E-6	
15.00000	33.93750	89.00000	-15.218	88.600	-6.7636	-29.395	214.21E-6	
15.00000	35.12500	89.00000	-13.324	88.600	-5.3143	-22.500	154.30E-6	
15.00000	36.31250	89.00000	-8.8734	88.600	-0.26598	-8.8973	170.70E-6	
15.00000								



SOUTHERN TESTING LABORATORIES

Job No. J12093, Sheet No., Rev., Drg. Ref., Made by, Date, Checked

Kidderpore East Side CASE 4- Undrained Movements

Main data table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain)



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore East Side CASE 4- Undrained Movements

Dr. Ref.

Made by Date Checked

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 225 rows of numerical data.



SOUTHERN TESTING LABORATORIES

Kidderpore East Side CASE 4- Undrained Movements

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by Date Checked

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 100 rows of data.



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore East Side CASE 4- Undrained Movements

Dr. Ref.

Made by Date Checked

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). It contains a large grid of numerical data representing stress and strain values at various locations.



**SOUTHERN TESTING
LABORATORIES**

Kidderpore East Side
CASE 4- Undrained Movements

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Name	Location		Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
Line 1	26.60000	-9.40000	90.15000	-0.25823	89.721	1.6463E-6	-0.0037720	0.0
	25.78000	-6.28000	90.15000	-0.35299	89.721	2.0365E-6	-0.0044055	0.0
	24.96000	-3.16000	90.15000	-0.48062	89.721	2.5422E-6	-0.0051900	0.0
	24.14000	-0.04000	90.15000	-0.65544	89.721	3.2049E-6	-0.0061731	0.0
	23.32000	3.08000	90.15000	-0.82088	89.721	4.0833E-6	-0.0074215	0.0
	22.50000	6.20000	90.15000	-0.86979	89.721	5.2628E-6	-0.0090302	0.0
	21.68000	9.32000	90.15000	-0.87960	89.721	6.8677E-6	-0.011138	0.0
	20.86000	12.44000	90.15000	-1.1294	89.721	9.0830E-6	-0.013949	0.0
	20.04000	15.56000	90.15000	-1.5413	89.721	12.187E-6	-0.017777	0.0
	19.22000	18.68000	90.15000	-1.9754	89.721	16.602E-6	-0.023108	0.0
	18.40000	21.80000	90.15000	-2.5084	89.721	22.978E-6	-0.030715	0.0
Line 2	18.40000	21.80000	90.15000	-2.5084	89.721	22.978E-6	-0.030715	0.0
	18.23809	24.79048	90.15000	-3.0330	89.721	32.147E-6	-0.038895	0.0
	18.07619	27.78095	90.15000	-3.7858	89.721	46.396E-6	-0.049401	1.1657E-6
	17.91429	30.77143	90.15000	-4.8245	89.721	69.882E-6	-0.062406	1.4733E-6
	17.75238	33.76191	90.15000	-5.4805	89.721	111.58E-6	-0.077238	1.8252E-6
	17.59048	36.75238	90.15000	-5.1045	89.721	191.78E-6	-0.091296	2.1617E-6
	17.42857	39.74286	90.15000	-4.5089	89.721	356.94E-6	-0.098556	2.3442E-6
	17.26667	42.73333	90.15000	-4.0559	89.721	715.36E-6	-0.088030	2.1218E-6
	17.10476	45.72381	90.15000	-3.7183	89.721	0.0015387	-0.041271	1.0797E-6
	16.94286	48.71429	90.15000	-3.4652	89.721	0.0036022	0.075478	-1.5217E-6
	16.78095	51.70476	90.15000	-3.2676	89.721	0.0095154	0.33513	-7.2138E-6
	16.61905	54.69524	90.15000	-3.0614	89.721	0.029994	0.91807	-19.485E-6
	16.45714	57.68571	90.15000	-2.5298	89.721	0.11671	2.2781	-45.365E-6
	16.29524	60.67619	90.15000	-1.4429	89.721	0.39866	4.8818	-86.725E-6
	16.13333	63.66667	90.15000	-0.44009	89.721	0.66003	7.0529	-119.35E-6
	15.97143	66.65714	90.15000	-0.068031	89.721	0.70849	7.1292	-117.74E-6
	15.80952	69.64762	90.15000	-0.30702	89.721	0.38684	4.6432	-81.945E-6
	15.64762	72.63809	90.15000	-0.65314	89.721	0.091739	2.0596	-41.986E-6
	15.48571	75.62857	90.15000	-0.77446	89.721	0.023858	0.91035	-19.736E-6
	15.32381	78.61905	90.15000	-0.75579	89.721	0.0078386	0.43428	-9.6580E-6
	15.16190	81.60953	90.15000	-0.67880	89.721	0.0031678	0.22116	-4.9802E-6
	15.00000	84.60000	90.15000	-0.58369	89.721	0.0014432	0.11838	-2.6835E-6



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked
	16-Nov-2016	

Kidderpore
Case 4A
Without Beneficial Strain

Utility Strain Calculation Options

Neglect beneficial contribution of axial strains : Yes

Displacement and Strain Results

Type/No.	Coordinates			Displacements				Angle of Line	
Name	Dist.	x	y	z	x	y	z	to x Axis	
	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[°]	
Line 1	Line 1	26.60000	-9.40000	90.15000	0.0	0.0	0.66158	0.0	104.73 *
		3.2260	-6.28000	90.15000	0.0	0.0	1.1237	0.0	104.73 *
		6.4519	-3.16000	90.15000	-0.23708	0.01970	2.1132	0.079315	104.73 *
		9.6779	-0.04000	90.15000	-0.81280	-0.13246	3.0106	0.078498	104.73 *
		12.904	3.08000	90.15000	-0.92661	-0.15100	2.8347	0.089490	104.73 *
		16.130	6.20000	90.15000	-1.0404	-0.16955	3.1531	0.10048	104.73 *
		19.356	9.32000	90.15000	-1.1542	-0.18810	4.0871	0.11147	104.73 *
		22.582	12.44000	90.15000	-0.96666	-0.20212	4.2406	0.050233	0.98628
		25.808	15.56000	90.15000	-0.63517	-0.31344	0.85531	-0.14169	0.69398
		29.034	18.68000	90.15000	-0.81750	0.0	-0.58596	0.20780	0.79065
		32.260	21.80000	90.15000	-1.1250	0.0	-1.2691	0.28596	1.0880
Line 2	Line 2	18.40000	21.80000	90.15000	-1.1250	0.0	-1.2691	0.060819	1.1234
		2.9949	24.79048	90.15000	-1.1857	0.0	-1.4390	0.064101	1.1840
		5.9897	27.78095	90.15000	-1.6323	0.57351	-1.4108	0.66092	1.5989
		8.9846	30.77143	90.15000	-2.3125	0.82352	-0.83640	0.94733	2.2646
		11.979	33.76190	90.15000	-3.3357	0.46899	0.88698	0.64863	3.3054
		14.974	36.75238	90.15000	-3.1293	0.85871	-0.030268	3.1355	3.9309 *
		17.969	39.74286	90.15000	-2.7385	-0.21221	-0.26236	-0.063854	2.7459
		20.964	42.73333	90.15000	-2.7125	0.0	-0.047281	0.14664	2.7085
		23.959	45.72381	90.15000	-2.7732	0.0	0.39760	0.14992	2.7692
		26.954	48.71429	90.15000	-2.8339	0.0	0.81648	0.15320	2.8298
		29.949	51.70476	90.15000	-2.8946	0.0	1.1854	0.15649	2.8904
		32.943	54.69524	90.15000	-2.9554	0.0	1.5588	0.15977	2.9510
		35.938	57.68571	90.15000	-3.0161	0.0	2.1826	0.16305	3.0117
		38.933	60.67619	90.15000	-2.7115	-0.34285	3.1917	-0.19576	2.7261
		41.928	63.66667	90.15000	-1.2747	-1.2896	3.6160	-1.2188	1.3425
		44.923	66.65714	90.15000	-0.51547	-1.1691	3.2625	-1.1395	0.57792
		47.918	69.64762	90.15000	-0.14205	-0.53315	2.3384	-0.52469	0.17066
		50.913	72.63810	90.15000	0.0	0.0	0.080350	0.0	0.0
		53.907	75.62857	90.15000	0.0	0.0	-0.76300	0.0	0.0
		56.902	78.61905	90.15000	0.0	0.0	-1.0086	0.0	0.0
		59.897	81.60952	90.15000	0.0	0.0	-1.0209	0.0	0.0
		62.892	84.60000	90.15000	0.0	0.0	-0.94123	0.0	0.0

* Result includes imported displacement(s).

Specific Utility Damage Results - Coordinates and Displacements

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates			Displacements				Displacements at (n-Lp)			Displacements at (n+Lp)		
	x	y	z	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular
perpendicular displacement	[m]	[m]	[m]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]
Iteration: 1													
6.45191	24.96000	-3.16000	90.15000	-0.23708	0.01970	2.11319	0.07932	0.22428	0.00000	0.00000	1.06185	0.00000	0.00000
0.22428													
12.90383	23.32000	3.08000	90.15000	-0.92661	-0.15100	2.83470	0.08949	0.93456	-0.73569	-0.11208	2.89037	0.07861	0.74002
0.93456													
19.35574	21.68000	9.32000	90.15000	-1.15423	-0.18810	4.08707	0.11147	1.16413	-1.02518	-0.16707	3.11045	0.09901	1.03397
1.16413													
25.80766	20.04000	15.56000	90.15000	-0.63517	-0.31344	0.85531	-0.14169	0.69398	-0.99178	-0.20024	4.22008	0.05843	1.01010
0.69398													
Iteration: 2													
9.67787	24.14000	-0.04000	90.15000	-0.81280	-0.13246	3.01055	0.07850	0.81977	-0.20533	0.01706	1.98067	0.06869	0.19425
0.81977													
16.12979	22.50000	6.20000	90.15000	-1.04042	-0.16955	3.15309	0.10048	1.04934	-0.91136	-0.14852	2.85825	0.08802	0.91918
1.04934													
22.58170	20.86000	12.44000	90.15000	-0.96666	-0.20212	4.24064	0.05023	0.98628	-1.13899	-0.18561	3.96198	0.11000	1.14876
0.98628													

Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point	Coordinates			Displacements				Displacements at (n-Lp)			Displacements at (n+Lp)		
	x	y	z	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular	x	y	z	Horizontal displacement along	Horizontal displacement perpendicular
perpendicular displacement	[m]	[m]	[m]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]	[mm]	[mm]	[mm]	utility [mm]	to utility [mm]
Iteration: 1													
5.98971	18.07619	27.78095	90.15000	-1.63231	0.57351	-1.41084	0.66092	1.59892	-1.17227	0.00000	-1.40139	0.06337	1.17056
1.59892													
11.97942	17.75238	33.76190	90.15000	-3.33566	0.46899	0.88698	0.64863	3.30543	-2.16186	0.76816	-0.96360	0.88391	2.11718
3.30543													
17.96913	17.42857	39.74286	90.15000	-2.73847	-0.21221	-0.26236	-0.06385	2.74594	-3.17500	-0.05166	0.86497	0.12006	3.17315
2.74594													
23.95885	17.10476	45.72381	90.15000	-2.77321	0.00000	0.39760	0.14992	2.76916	-2.71825	-0.04699	-0.09491	0.10003	2.71682
2.76916													
29.94856	16.78095	51.70476	90.15000	-2.89464	0.00000	1.18542	0.15649	2.89041	-2.82049	0.00000	0.72373	0.15248	2.81636
2.89041													
35.93827	16.45714	57.68571	90.15000	-3.01607	0.00000	2.18259	0.16305	3.01166	-2.94191	0.00000	1.47613	0.15904	2.93761
3.01166													
41.92798	16.13333	63.66667	90.15000	-1.27468	-1.28959	3.61601	-1.21880	1.34254	-2.77896	-0.26693	2.96824	-0.11631	2.78933
1.34254													
47.91769	15.80952	69.64762	90.15000	-0.14205	-0.53315	2.33845	-0.52469	0.17066	-0.68358	-1.19576	3.34078	-1.15705	0.74723
0.17066													
53.90740	15.48571	75.62857	90.15000	0.00000	0.00000	-0.76300	0.00000	0.00000	-0.03145	-0.11805	0.58036	-0.11618	0.03779
0.00000													
Iteration: 2													
8.98457	17.91429	30.77143	90.15000	-2.31247	0.82352	-0.83640	0.94733	2.26457	-1.53343	0.44652	-1.41708	0.52877	1.50704
2.26457													
14.97428	17.59048	36.75238	90.15000	-3.12931	-0.19973	0.85871	-0.03027	3.13553	-3.10910	0.54749	0.50538	0.71477	3.07495
3.13553													
20.96399	17.26667	42.73333	90.15000	-2.71250	0.00000	-0.04728	0.14664	2.70853	-2.82501	-0.20945	-0.01412	-0.05642	2.83220
0.14664													



SOUTHERN TESTING LABORATORIES

Kidderpore
Case 4A
Without Beneficial Strain

Job No.	Sheet No.	Rev.
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Drq. Ref.		
Made by	Date	Checked
	16-Nov-2016	

Distance from the utility's start	Coordinates	Displacements	Displacements at (n-1p)						Displacements at (n+1p)							
2.70853	26.95370 16.94286 48.71429	90.15000 -2.83393 0.00000 0.81648 0.15320 2.82978 -2.75977 0.00000 0.29909 0.14920 2.75573 -2.90809 0.00000 1.26810 0.15721														
2.82978	32.94341 16.61905 54.69524	90.15000 -2.95536 0.00000 1.55881 0.15977 2.95104 -2.88120 0.00000 1.10373 0.15576 2.87699 -2.94864 -0.07592 2.40603 0.08360														
2.95104	38.93312 16.29524 60.67619	90.15000 -2.71153 -0.34285 3.19167 -0.19576 2.72610 -3.00263 0.00000 2.04447 0.16232 2.99824 -1.10657 -1.26290 3.53774 -1.20124														
2.72610	44.92284 15.97143 66.65714	90.15000 -0.51547 -1.16907 3.26250 -1.13949 0.57792 -1.59284 -1.07996 3.52205 -0.99227 1.64889 -0.11059 -0.41509 1.83844 -0.40851														
0.57792	50.91255 15.64762 72.63810	90.15000 0.00000 0.00000 0.08035 0.00000 0.00000 -0.22473 -0.67396 2.54306 -0.66082 0.26084 0.00000 0.00000 -0.81738 0.00000														
0.00000	56.90226 15.32381 78.61905	90.15000 0.00000 0.00000 -1.00861 0.00000 0.00000 0.00000 0.00000 0.00000 -0.57626 0.00000 0.00000 0.00000 0.00000 -1.00323 0.00000														
0.00000																

Specific Utility Damage Results - Pullouts and Rotations

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the Sagging utility's start vs Hogging point	Coordinates		Pullout Check																	
	Rotation	Threshold Limit	Left Seg.								Right Seg.								Total Flexural	Total
			Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored		
2.70853	26.95370	16.94286	48.71429	90.15000	-2.83393	0.00000	0.81648	0.15320	2.82978	-2.75977	0.00000	0.29909	0.14920	2.75573	-2.90809	0.00000	1.26810	0.15721		
2.82978	32.94341	16.61905	54.69524	90.15000	-2.95536	0.00000	1.55881	0.15977	2.95104	-2.88120	0.00000	1.10373	0.15576	2.87699	-2.94864	-0.07592	2.40603	0.08360		
2.95104	38.93312	16.29524	60.67619	90.15000	-2.71153	-0.34285	3.19167	-0.19576	2.72610	-3.00263	0.00000	2.04447	0.16232	2.99824	-1.10657	-1.26290	3.53774	-1.20124		
2.72610	44.92284	15.97143	66.65714	90.15000	-0.51547	-1.16907	3.26250	-1.13949	0.57792	-1.59284	-1.07996	3.52205	-0.99227	1.64889	-0.11059	-0.41509	1.83844	-0.40851		
0.57792	50.91255	15.64762	72.63810	90.15000	0.00000	0.00000	0.08035	0.00000	0.00000	-0.22473	-0.67396	2.54306	-0.66082	0.26084	0.00000	0.00000	-0.81738	0.00000		
0.00000	56.90226	15.32381	78.61905	90.15000	0.00000	0.00000	-1.00861	0.00000	0.00000	0.00000	0.00000	0.00000	-0.57626	0.00000	0.00000	0.00000	0.00000	-1.00323	0.00000	
0.00000																				

Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the Sagging utility's start vs Hogging point	Coordinates		Pullout Check																	
	Rotation	Threshold Limit	Left Seg.								Right Seg.								Total Flexural	Total
			Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored		
0.01980	9.67787	24.14000	-0.04000	90.15000	0.07360	0.07360	0.10251	0.10251	0.08473	0.08473	0.10251	0.10251	0.01113	0.01113	0.20502	0.20502	0.21616	0.21616	-	OK
0.00666	16.12979	22.50000	6.20000	90.15000	0.09425	0.09425	0.05359	0.05359	0.10188	0.10188	0.05359	0.05359	0.00763	0.00763	0.10718	0.10718	0.11481	0.11481	-	OK
0.00788	0.01035	-	-	OK	Hogging															
19.35574	21.68000	9.32000	90.15000	0.10524	0.10524	0.10726	0.10726	0.06800	0.06800	0.10726	0.10726	-0.03724	-0.03724	0.21453	0.21453	0.21453	0.21453	-	OK	
0.02072	0.02072	-	-	OK	Hogging															
25.80766	20.04000	15.56000	90.15000	-0.04163	-0.04163	0.15507	0.15507	0.03829	0.03829	0.15507	0.15507	0.07992	0.07992	0.31013	0.31013	0.39005	0.39005	-	OK	
0.02995	0.02995	-	-	OK	Hogging															
0.01980	9.67787	24.14000	-0.04000	90.15000	0.07360	0.07360	0.10251	0.10251	0.08473	0.08473	0.10251	0.10251	0.01113	0.01113	0.20502	0.20502	0.21616	0.21616	-	OK
0.00666	16.12979	22.50000	6.20000	90.15000	0.09425	0.09425	0.05359	0.05359	0.10188	0.10188	0.05359	0.05359	0.00763	0.00763	0.10718	0.10718	0.11481	0.11481	-	OK
0.00788	0.01035	-	-	OK	Hogging															
19.35574	21.68000	9.32000	90.15000	0.10524	0.10524	0.10726	0.10726	0.06800	0.06800	0.10726	0.10726	-0.03724	-0.03724	0.21453	0.21453	0.21453	0.21453	-	OK	
0.02072	0.02072	-	-	OK	Hogging															
25.80766	20.04000	15.56000	90.15000	-0.04163	-0.04163	0.15507	0.15507	0.03829	0.03829	0.15507	0.15507	0.07992	0.07992	0.31013	0.31013	0.39005	0.39005	-	OK	
0.02995	0.02995	-	-	OK	Hogging															

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates	Pipe Strain Check				Radius of Curvature Check		Peak flexural tensile strain orientation angle (w.r.t global z-axis)											
		Unfactored	Factored	Unfactored	Factored	Unfactored	Factored	Unfactored	Factored										
2.70853	26.95370 16.94286 48.71429	90.15000	-2.83393	0.00000	0.81648	0.15320	2.82978	-2.75977	0.00000	0.29909	0.14920	2.75573	-2.90809	0.00000	1.26810	0.15721			
2.82978	32.94341 16.61905 54.69524	90.15000	-2.95536	0.00000	1.55881	0.15977	2.95104	-2.88120	0.00000	1.10373	0.15576	2.87699	-2.94864	-0.07592	2.40603	0.08360			
2.95104	38.93312 16.29524 60.67619	90.15000	-2.71153	-0.34285	3.19167	-0.19576	2.72610	-3.00263	0.00000	2.04447	0.16232	2.99824	-1.10657	-1.26290	3.53774	-1.20124			
2.72610	44.92284 15.97143 66.65714	90.15000	-0.51547	-1.16907	3.26250	-1.13949	0.57792	-1.59284	-1.07996	3.52205	-0.99227	1.64889	-0.11059	-0.41509	1.83844	-0.40851			
0.57792	50.91255 15.64762 72.63810	90.15000	0.00000	0.00000	0.08035	0.00000	0.00000	-0.22473	-0.67396	2.54306	-0.66082	0.26084	0.00000	0.00000	-0.81738	0.00000			
0.00000	56.90226 15.32381 78.61905	90.15000	0.00000	0.00000	-1.00861	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-1.00323	0.00000	
0.00000																			



SOUTHERN TESTING LABORATORIES

Kidderpore
Case 4A
Without Beneficial Strain

Job No.	Sheet No.	Rev.
J12093		
Drq. Ref.		
Made by	Date	Checked
	16-Nov-2016	

x	y	z	Axial	Flexural				Tension				Compression				Radius of Threshold Limit Curvature			
				Tension		Compression		Total		Check	Total		Check	Radius of Curvature					
				Unfactored	Factored	Unfactored	Factored	Unfactored	Factored		Unfactored	Factored		Unfactored	Factored	[m]	[Deg]		
[m]	[m]	[m]	[m]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[µε]	[m]	[Deg]
6.45191	24.96000	-3.16000	90.15000	12.217	2.4435	10.901	10.901	-10.901	-10.901	23.11845	13.34449	OK	-10.90099	-10.90099	OK	2.7211E+4	-	-	256.06909
9.67787	24.14000	-0.04000	90.15000	1.5893	0.31785	33.518	33.518	-33.518	-33.518	35.10740	33.83599	OK	-33.51813	-33.51813	OK	8.8497E+3	-	-	155.87222
12.90283	23.32000	3.08000	90.15000	3.4081	0.68162	14.087	14.087	-14.087	-14.087	17.49529	14.76880	OK	-14.08718	-14.08718	OK	2.1056E+4	-	-	0.00000
16.12979	22.50000	6.20000	90.15000	3.4267	0.68534	17.546	17.546	-17.546	-17.546	20.97282	18.23145	OK	-17.54611	-17.54611	OK	1.6905E+4	-	-	-0.00002
19.35574	21.68000	9.32000	90.15000	-7.7739	-1.5548	23.756	23.756	-23.756	-23.756	23.75612	23.75612	OK	-31.53000	-25.31090	OK	1.2486E+4	-	-	159.44485
22.58170	20.86000	12.44000	90.15000	-39.110	-7.8221	100.92	100.92	-100.92	-100.92	100.92175	100.92175	OK	-140.03203	-108.74381	OK	2.9391E+3	-	-	178.14768
25.80766	20.04000	15.56000	90.15000	24.698	4.9397	57.348	57.348	-57.348	-57.348	82.04644	62.28773	OK	-57.34806	-57.34806	OK	5.1723E+3	-	-	-11.14669

Summary: There is failure at one(or many) location(s). e.g. (20.860000,12.440000,90.150000).
 Note: Tensile strains are +ve, compressive strains are -ve.
 Note: The peak flexural tensile strain orientation angle is measured with respect to the global z-axis by looking at the end point of the utility from the start point. Anti-clockwise is positive.
 Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point	Coordinates			Axial	Flexural				Tension				Compression				Radius of Curvature	Check	Peak flexural tensile strain orientation angle (w.r.t global z-axis)
	x	y	z		Tension		Compression		Total		Check	Total		Check	Radius of Curvature				
	[m]	[m]	[m]		Unfactored	Factored	Unfactored	Factored	Unfactored	Factored		Unfactored	Factored		Unfactored	Factored			
2.99486	18.23810	24.79048	90.15000	100.19	20.038	13.425	13.425	-13.425	-13.425	113.61666	33.46298	OK	-13.42456	-13.42456	OK	2.2096E+4	-	-	-60.79343
5.98971	18.07619	27.78095	90.15000	147.48	29.496	19.878	19.878	-19.878	-19.878	167.35671	49.37344	OK	-19.87762	-19.87762	OK	1.4923E+4	-	-	-24.65205
8.98457	17.91429	30.77143	90.15000	-1.9377	-0.38754	39.972	39.972	-39.972	-39.972	39.97204	39.97204	OK	-41.90972	-40.35958	OK	7.4208E+3	-	-	-18.08579
11.97942	17.75238	33.76190	90.15000	-163.16	-32.632	70.422	70.422	-70.422	-70.422	70.42158	70.42158	OK	-233.58389	-103.05404	OK	4.2121E+3	-	-	145.34733
14.97428	17.59048	36.75238	90.15000	-118.93	-23.786	36.863	36.863	-36.863	-36.863	36.86338	36.86338	OK	-155.79189	-60.64908	OK	8.0466E+3	-	-	168.63300
17.96913	17.42857	39.74286	90.15000	29.549	5.9099	45.698	45.698	-45.698	-45.698	75.24689	51.60739	OK	-45.69752	-45.69752	OK	6.4910E+3	-	-	-14.76649
20.96399	17.26667	42.73333	90.15000	35.697	7.1393	8.2624	8.2624	-8.2624	-8.2624	43.95914	15.40177	OK	-8.26243	-8.26243	OK	3.5900E+4	-	-	-23.10222
23.95885	17.10476	45.72381	90.15000	1.1066	0.22132	0.85954	0.85954	-0.85954	-0.85954	1.96611	1.08085	OK	-0.85954	-0.85954	OK	3.4510E+5	-	-	180.00220
26.95370	16.94286	48.71429	90.15000	1.1048	0.22097	1.6518	1.6518	-1.6518	-1.6518	2.75667	1.87280	OK	-1.65184	-1.65184	OK	1.7957E+5	-	-	179.99886
29.94856	16.78095	51.70476	90.15000	1.1038	0.22077	0.14727	0.14727	-0.14727	-0.14727	1.25112	0.36804	OK	-0.14727	-0.14727	OK	2.0141E+6	-	-	0.00000
32.94341	16.61905	54.69524	90.15000	1.1100	0.22201	8.2807	8.2807	-8.2807	-8.2807	9.39072	8.50270	OK	-8.28069	-8.28069	OK	3.5821E+4	-	-	0.00000
35.93827	16.45714	57.68571	90.15000	-59.318	-11.864	17.130	17.130	-17.130	-17.130	17.13047	17.13047	OK	-76.44874	-28.99412	OK	1.7316E+4	-	-	41.93924
38.93312	16.29524	60.67619	90.15000	-230.64	-46.127	41.141	41.141	-41.141	-41.141	41.14078	41.14078	OK	-271.77677	-87.26798	OK	7.2100E+3	-	-	118.03767
41.92798	16.13333	63.66667	90.15000	-157.50	-31.499	32.875	32.875	-32.875	-32.875	32.87499	32.87499	OK	-190.37005	-64.37400	OK	9.0228E+3	-	-	218.50968
44.92284	15.97143	66.65714	90.15000	115.93	23.185	22.264	22.264	-22.264	-22.264	138.18948	45.44938	OK	-22.26435	-22.26435	OK	1.3323E+4	-	-	212.06055
47.91769	15.80952	69.64762	90.15000	190.39	38.077	44.807	44.807	-44.807	-44.807	235.19474	82.88485	OK	-44.80738	-44.80738	OK	6.6200E+3	-	-	190.05714
50.91255	15.64762	72.63810	90.15000	87.733	17.547	47.127	47.127	-47.127	-47.127	134.85983	64.67366	OK	-47.12712	-47.12712	OK	6.2941E+3	-	-	-6.87833
53.90740	15.48571	75.62857	90.15000	0.016526	0.0033053	19.768	19.768	-19.768	-19.768	19.78477	19.77155	OK	-19.76825	-19.76825	OK	1.5005E+4	-	-	0.00000
56.90226	15.32381	78.61905	90.15000	926.755E-6	185.35E-6	7.7171	7.7171	-7.7171	-7.7171	7.71799	7.71725	OK	-7.71706	-7.71706	OK	3.8437E+4	-	-	0.00000

Note: Tensile strains are +ve, compressive strains are -ve.
 Note: The peak flexural tensile strain orientation angle is measured with respect to the global z-axis by looking at the end point of the utility from the start point. Anti-clockwise is positive.

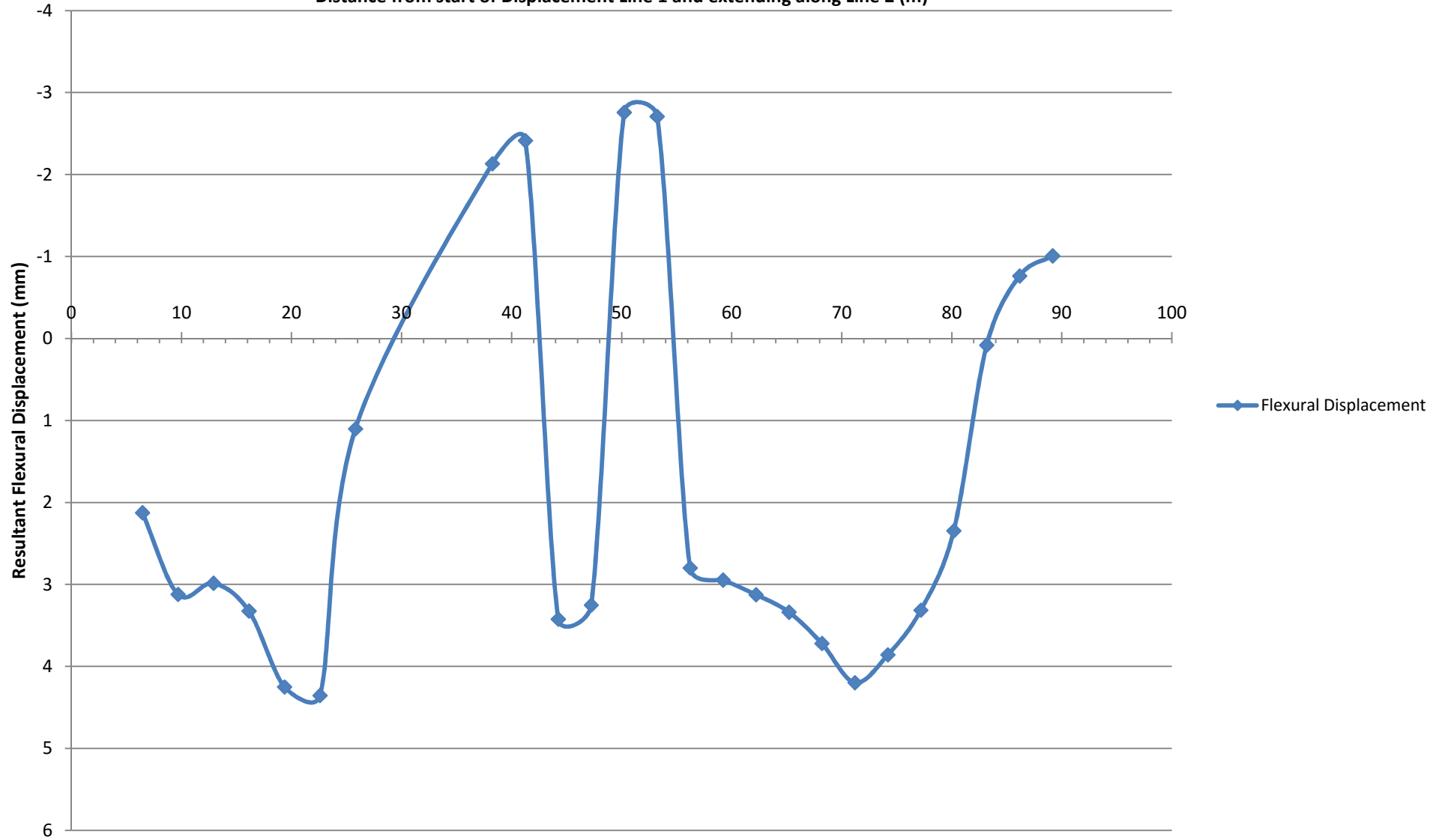
Specific Utility Damage Results - Maximum Values

Name	Jointed	Displacement Data Type	Displacement Data	Maximum Pullout		Maximum Rotation		Maximum Strain		Minimum Radius of Curvature		Maximum Displacement					
				(Factored)		(Factored)		(Factored)				x					
				Location	Value	Location	Value	Location	Value	Location	Value	Location	Value	Location	Value		
Horizontal																	
Y																	
Location	Value																
[m]	[mm]			[m]	[mm]	[m]	[mm]	[m]	[µε]	[m]	[µε]	[m]	[mm]				
Cast Iron Main	Yes	Displacement	Line 1	22.582	0.62516	22.582	0.06038	22.58170	100.92175*	22.58170	-108.74381	22.582	2.9391E+3	22.582	4.2406	32.259	0.28595
19.356	1.1641																
Line 1		Line															
Cast Iron Main	Yes	Displacement	Line 2	47.918	0.82155	11.979	0.04027	47.91769	82.88485	11.97942	-103.05404	11.979	4.2121E+3	41.928	3.6160	41.928	-1.2188
11.979	3.3054																
Line 2		Line															

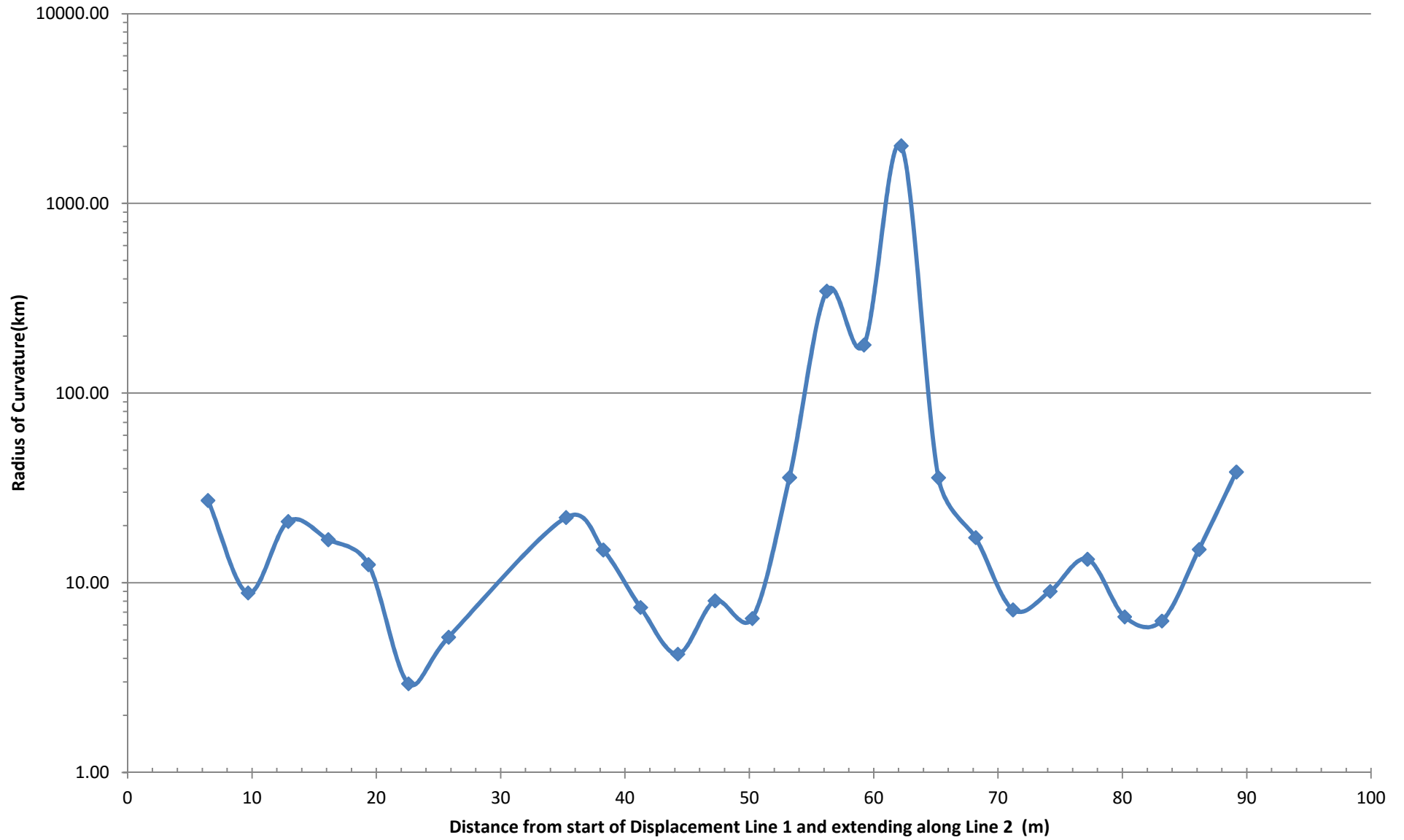
Note: * symbol indicates that the value has exceeded one of (or both) the limiting criteria

Case 4A-Resultant Flexural Displacement Profile

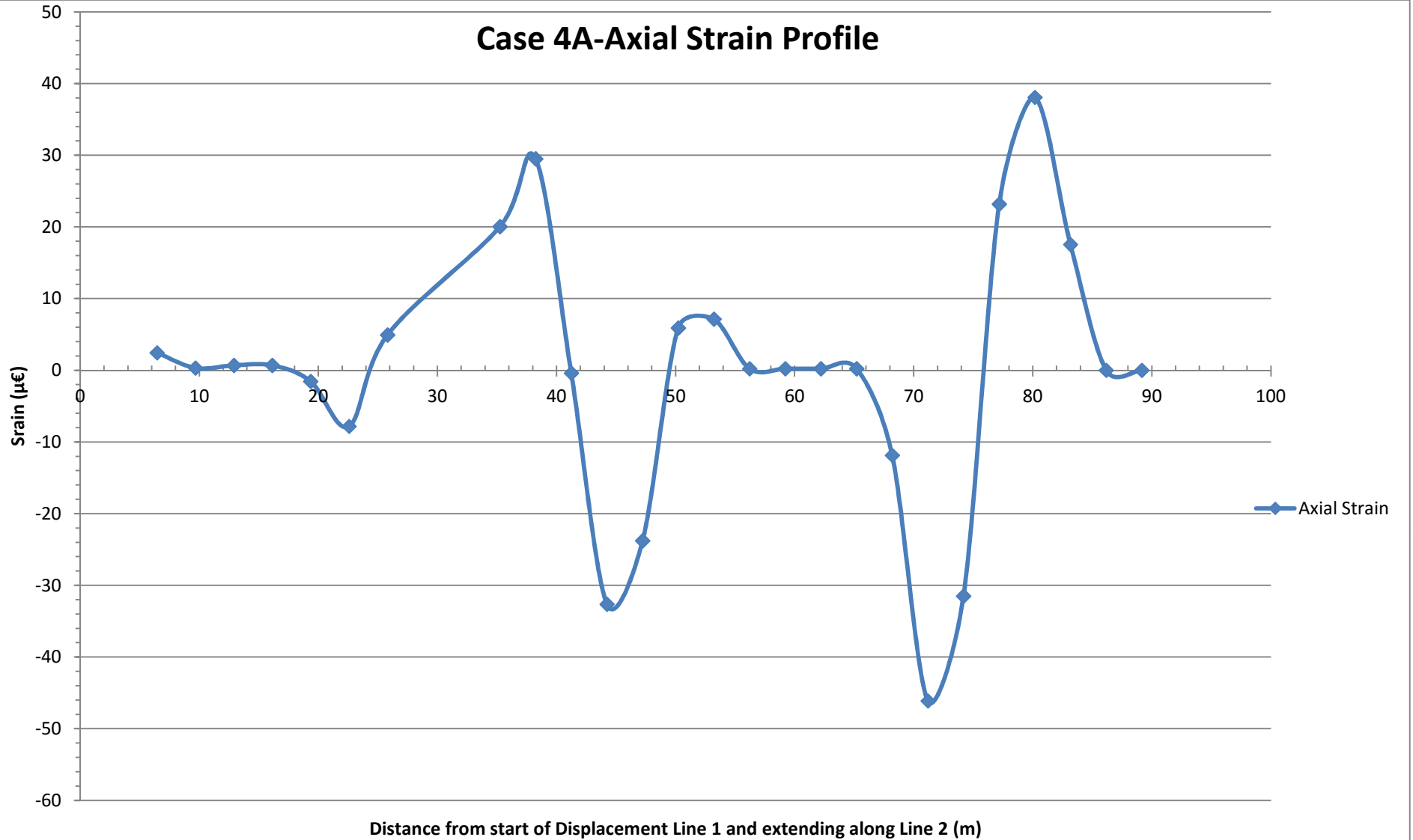
Distance from start of Displacement Line 1 and extending along Line 2 (m)



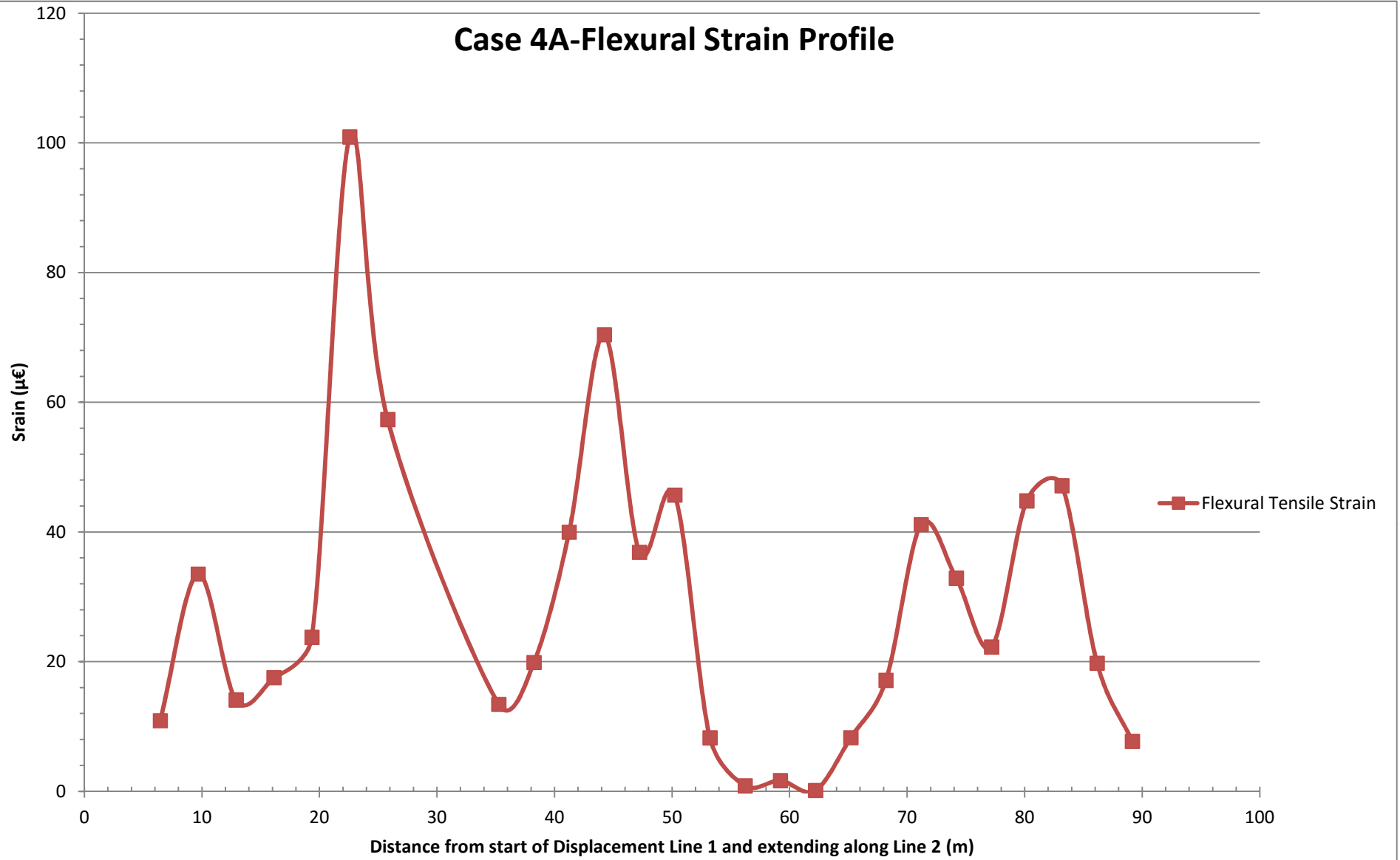
Case 4A-Radius of Curvature Profile



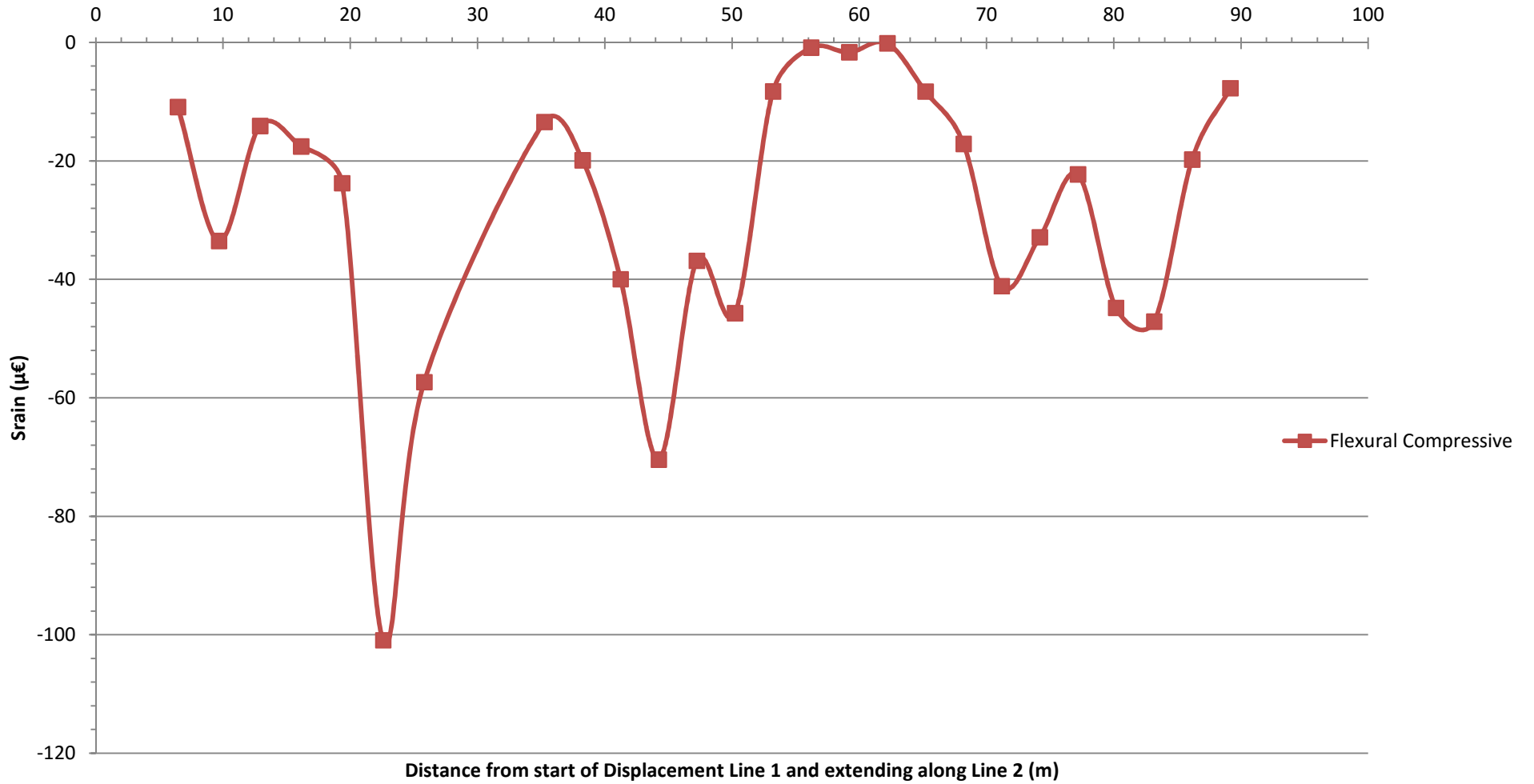
Case 4A-Axial Strain Profile



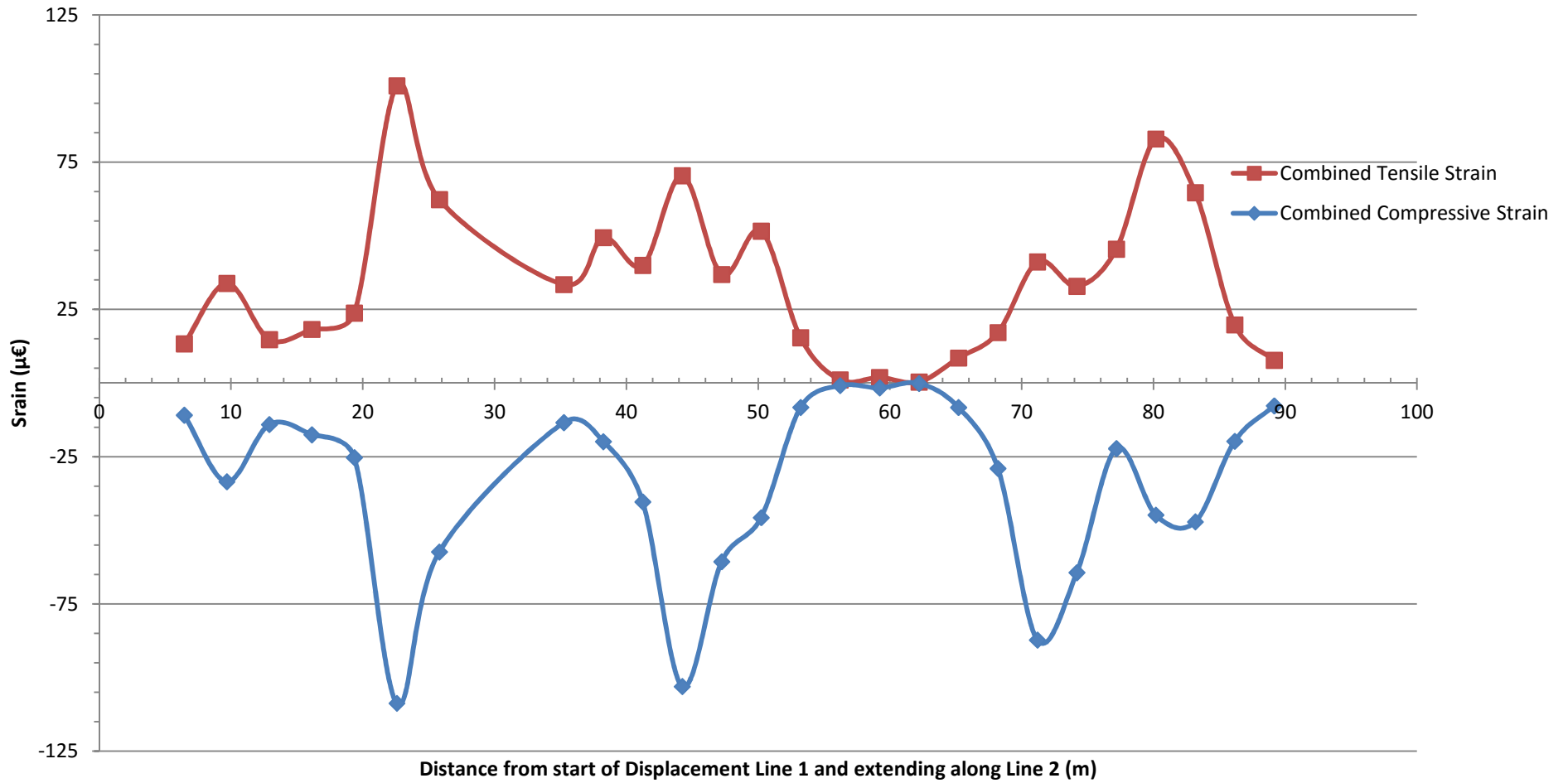
Case 4A-Flexural Strain Profile



Case 4A-Flexural Strain Profile



Case 4A-Combined Strain Profile



APPENDIX E

Case 5A-Figures and XDISP and PDISP Outputs



SOUTHERN TESTING LABORATORIES

Kidderpore East Side
CASE 5- Drained Movements

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Analysis Options

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: 0.00 [m OD]
Displacements at area centroids calculated.

Soil Profiles Soil Profile 1

Layer	Level at top	Number of intermediate displacement levels	Youngs Modulus	Poissons ratio	Non-linear curve	
	[mOD]		Top [kN/m ²]	Btm [kN/m ²]		
1	92.000	7	15938.	15938.	0.20000	None
2	85.000	90	27413.	135790.	0.20000	None

Soil Zones

Zone	Name	X coordinates min	X coordinates max	Y coordinates min	Y coordinates max	Profile
1	1	-30.000	30.000	-15.000	90.000	Soil Profile 1

Load Data

Load ref.	Name	Shape	Orientation of Plane	Centre of load (Global)			Load position local x from	Angle of local x from	Width x Radius	Length y	Polygon Coordinates	Rectangle of tolerance rectangles	Load value	
				X	Y	Z (level)							Normal (local z)	Tangential (local x)
1	Unload A	Polygonal	Horizontal	N/A	N/A	89.000	N/A	N/A	N/A	(0,0) (6.3,0) (6.3,-1.2) (20.2,-1.2) (17.2,9.4) (14.7,9.4) (14.7,35.4) (12.5,35.4) (12.5,40.7) (-1.88,38.5) (-1.88,26.9) (0,26.9) (0,0)	10.000	10	-48.000	N/A
2	Unload B	Polygonal	Horizontal	N/A	N/A	90.100	N/A	N/A	N/A	(-5.34,38) (3.99,39.5) (3.99,71.8) (-16.4,71.8) (-16.4,59.9) (-5.34,59.9) (-5.34,38)	10.000	2	-48.000	N/A
3	Load C (Proposed)	Polygonal	Horizontal	N/A	N/A	89.050	N/A	N/A	N/A	(-3,0) (12.2,0) (12.2,-2) (20.2,-2) (18,11.5) (15,11.5) (15,30.6) (-3,30.6) (-3,24) (0,24) (0,10.2) (-3,10.2) (-3,0)	10.000	5	45.000	N/A
4	Load D (Proposed)	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(0,30.6) (12,30.6) (12,54.2) (13.4,54.2) (13.4,60) (5.4,60) (5.4,57.8) (-1.2,57.8) (-1.2,53.8) (-10.4,53.8) (-10.4,43.6) (-8,43.6) (-8,33.6) (-2.2,33.6) (-2.2,30.6) (0,30.6)	10.000	6	60.000	N/A
5	Load E(Proposed)	Polygonal	Horizontal	N/A	N/A	86.795	N/A	N/A	N/A	(-13,53.8) (-1.2,53.8) (-1.2,57.8) (5.4,57.8) (5.4,71.8) (-13,71.8) (-13,53.8)	10.000	2	60.000	N/A
6	Load F (Proposed)	Polygonal	Horizontal	N/A	N/A	91.125	N/A	N/A	N/A	(5.4,60) (13,60) (13,69) (5.4,69) (5.4,60)	10.000	1	60.000	N/A
7	Load G (Unload)	Polygonal	Horizontal	N/A	N/A	89.050	N/A	N/A	N/A	(-3,0) (12.2,0) (12.2,-2) (20.2,-2) (18,11.5) (15,11.5) (15,30.6) (-3,30.6) (-3,24) (0,24) (0,10.2) (-3,10.2) (-3,0)	10.000	5	-10.400	N/A
8	Load H (Unload)	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(-3,30.6) (15,30.6) (15,35.4) (12,35.4) (12,40) (-3,38.5) (-3,30.6)	10.000	2	-91.700	N/A
9	Load I (Unload)	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(-8,33.6) (-3,33.6) (-3,38.5) (5.4,39.5) (5.4,57.8) (-1.2,57.8) (-1.2,53.6) (-10.4,53.6) (-10.4,43.6) (-8,43.6) (-8,33.6)	10.000	4	-52.800	N/A
10	Load J (Unload) minus D	Polygonal	Horizontal	N/A	N/A	87.985	N/A	N/A	N/A	(8.5,39.5) (12,40) (12,54.2) (13.4,54.2) (13.4,60) (8.5,60) (8.5,39.5)	10.000	2	-128.20	N/A
11	Load K (Unload)	Polygonal	Horizontal	N/A	N/A	86.795	N/A	N/A	N/A	(-13,53.8) (-1.2,53.8) (-1.2,57.8) (5.4,57.8) (5.4,71.8) (-13,71.8) (-13,53.8)	10.000	2	-76.500	N/A
12	Load L (Unload)	Polygonal	Horizontal	N/A	N/A	91.125	N/A	N/A	N/A	(5.4,60) (13.4,60) (13.4,69) (5.4,69) (5.4,60)	10.000	1	-5.5000	N/A

Polygonal Loads' Rectangles

No.	Centre of load X	Centre of load Y	Angle of local x from global X [Degrees]	Width x local x [m]	Depth y [m]
Load 1 : Unload A (Edge 1 optimal)					
1	3.1500	19.628	0.0	6.3000	39.256
2	9.4170	19.498	0.0	6.2340	41.397
3	13.617	17.100	0.0	2.1660	36.600
4	15.965	4.1000	0.0	2.5300	10.600
5	17.527	3.5700	0.0	0.59400	9.5400
6	18.121	2.5100	0.0	0.59400	7.4200
7	18.715	1.4500	0.0	0.59400	5.3000
8	19.309	0.39000	0.0	0.59400	3.1800
9	19.903	-0.67000	0.0	0.59400	1.0600
10	-0.94000	32.771	0.0	1.8800	11.741
Load 2 : Unload B (Edge 3 optimal)					
1	-0.67650	55.275	-180.00	9.3330	33.050
2	-10.863	65.842	-180.00	11.039	11.915
Load 3 : Load C (Proposed) (Edge 2 optimal)					
1	16.119	-1.0000	-90.000	2.0000	7.8370
2	6.0000	27.300	-90.000	6.6000	18.000
3	7.5000	17.750	-90.000	12.500	15.000
4	9.0530	10.850	-90.000	1.3000	18.106
5	8.0215	5.1000	-90.000	10.200	22.043
Load 4 : Load D (Proposed) (Edge 2 optimal)					
1	4.9000	32.100	90.000	3.0000	14.200
2	2.0000	38.600	90.000	10.000	20.000
3	0.80000	48.700	90.000	10.200	22.400
4	5.4000	54.000	90.000	0.40000	13.200
5	6.1000	56.000	90.000	3.6000	14.600
6	9.4000	58.900	90.000	2.2000	8.0000
Load 5 : Load E(Proposed) (Edge 1 optimal)					
1	-7.1000	62.800	0.0	11.800	18.000
2	2.1000	64.800	0.0	6.6000	14.000
Load 6 : Load F (Proposed) (Edge 1 optimal)					
1	9.2000	64.500	0.0	7.6000	9.0000
Load 7 : Load G (Unload) (Edge 2 optimal)					
1	16.119	-1.0000	-90.000	2.0000	7.8370
2	6.0000	27.300	-90.000	6.6000	18.000
3	7.5000	17.750	-90.000	12.500	15.000
4	9.0530	10.850	-90.000	1.3000	18.106
5	8.0215	5.1000	-90.000	10.200	22.043
Load 8 : Load H (Unload) (Edge 1 optimal)					



**SOUTHERN TESTING
LABORATORIES**

Job No. J12093	Sheet No.	Rev.
Dr. Ref.		
Made by	Date	Checked

Kidderpore East Side
CASE 5- Drained Movements

No.	Centre of load X	Centre of load Y	Angle of local x from global X	Width x	Depth y
1	4.5175	34.925	0.0	15.035	8.6500
2	13.517	33.000	0.0	2.9650	4.8000
Load 9 : Load I (Unload) (Edge 1 optimal)					
1	-5.5000	43.600	0.0	5.0000	20.000
2	-2.1000	46.104	0.0	1.8000	14.933
3	2.1000	48.454	0.0	6.6000	18.693
4	-9.2000	48.600	0.0	2.4000	10.000
Load 10 : Load J (Unload) minus D (Edge 3 optimal)					
1	10.250	49.874	0.0	3.5000	20.252
2	12.700	57.100	0.0	1.4000	5.8000
Load 11 : Load K (Unload) (Edge 1 optimal)					
1	-7.1000	62.800	0.0	11.800	18.000
2	2.1000	64.800	0.0	6.6000	14.000
Load 12 : Load L (Unload) (Edge 1 optimal)					
1	9.4000	64.500	0.0	8.0000	9.0000

Displacement Data

Ref.	Type	Name	Direction of Extrusion	Line/Line for extrusion			No. of intrvl across	Extrusion Depth	No. of intrvl along extrusion	Calculate	Show Detailed results		
				X	Y	Z(level)							
1	Grid	Grid 1	Global Y	-20.000	-10.000	89.000	N/A	89.000	40	95.000	80	Yes	No
2	Line	Line 1	N/A	26.600	-9.4000	90.150	18.400	21.800	10	N/A	N/A	Yes	No
3	Line	Line 2	N/A	18.400	21.800	90.150	15.000	84.600	21	N/A	N/A	Yes	No

RESULTS FOR GRIDS

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Horizontal rigid boundary level: 0.00 [m OD]

The maximum displacement difference between
Boussinesq method (-37.833mm) and Mindlin method (-33.444mm)
occurs at point X=13.750m Y=32.750m Level 89.000mOD and is 4.3896mm

Name	Location		Z[level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
Unload A	7.68414	18.6564	89.00000	-10.294	88.600	-13.401	31.616	-612.22E-6
Unload B	-3.74626	58.43207	90.10000	-31.536	89.675	-47.833	-104.78	-0.0022867
Load C	7.69615	13.92689	89.05000	-9.2196	88.645	-13.400	-31.521	-613.37E-6
(Proposed) Load D	2.38983	44.79169	87.98500	-18.001	87.488	-31.395	-47.837	-0.0017635
(Proposed) Load E	-4.31102	63.40630	86.79500	-26.502	86.346	-60.694	-107.75	-0.0032177
(Proposed) Load F	9.20000	64.50000	91.12500	12.118	90.688	54.450	118.28	0.0026154
Load G (Unload)	7.69615	13.92689	89.05000	-9.2196	88.645	-13.400	-31.521	-613.37E-6
Load H (Unload)	5.60108	34.74489	87.98500	-34.535	87.488	-79.502	-163.82	-0.0039302
Load I (Unload)	-2.08230	46.46584	87.98500	-19.423	87.488	-37.117	-57.836	-0.0020689
Load J (Unload)	10.50017	50.59756	87.98500	-20.375	87.488	-67.665	-133.90	-0.0034144
minus D								
Load K (Unload)	-4.31102	63.40630	86.79500	-26.502	86.346	-60.694	-107.75	-0.0032177
Load L (Unload)	9.40000	64.50000	91.12500	12.268	90.688	54.449	118.25	0.0026157
Grid 1	-20.00000	-10.00000	89.00000	-0.44356	88.600	-10.183E-6	-0.038537	0.0
	-20.00000	-0.81250	89.00000	-0.46739	88.600	-10.897E-6	-0.040288	0.0
	-20.00000	-7.62500	89.00000	-0.49364	88.600	-11.706E-6	-0.042153	0.0
	-20.00000	-6.43750	89.00000	-0.52061	88.600	-12.647E-6	-0.044155	0.0
	-20.00000	-5.25000	89.00000	-0.54900	88.600	-13.776E-6	-0.046327	0.0
	-20.00000	-4.06250	89.00000	-0.57893	88.600	-15.164E-6	-0.048707	0.0
	-20.00000	-2.87500	89.00000	-0.61053	88.600	-16.903E-6	-0.051344	0.0
	-20.00000	-1.68750	89.00000	-0.64393	88.600	-19.106E-6	-0.054291	0.0
	-20.00000	-0.50000	89.00000	-0.67929	88.600	-21.907E-6	-0.057610	0.0
	-20.00000	0.68750	89.00000	-0.71676	88.600	-25.457E-6	-0.061364	0.0
	-20.00000	1.87500	89.00000	-0.75648	88.600	-29.919E-6	-0.065617	0.0
	-20.00000	3.06250	89.00000	-0.79857	88.600	-35.469E-6	-0.070432	0.0
	-20.00000	4.25000	89.00000	-0.84313	88.600	-42.290E-6	-0.075865	0.0
	-20.00000	5.43750	89.00000	-0.89025	88.600	-50.570E-6	-0.081966	1.0247E-6
	-20.00000	6.62500	89.00000	-0.93997	88.600	-60.506E-6	-0.088775	1.1094E-6
	-20.00000	7.81250	89.00000	-0.99231	88.600	-72.309E-6	-0.096326	1.2033E-6
	-20.00000	9.00000	89.00000	-1.04773	88.600	-86.213E-6	-0.10465	1.3067E-6
	-20.00000	10.18750	89.00000	-1.1048	88.600	-102.49E-6	-0.11376	1.4198E-6
	-20.00000	11.37500	89.00000	-1.1648	88.600	-121.46E-6	-0.12369	1.5430E-6
	-20.00000	12.56250	89.00000	-1.2273	88.600	-143.54E-6	-0.13448	1.6767E-6
	-20.00000	13.75000	89.00000	-1.2922	88.600	-169.20E-6	-0.14615	1.8213E-6
	-20.00000	14.93750	89.00000	-1.3595	88.600	-199.08E-6	-0.15978	1.9774E-6
	-20.00000	16.12500	89.00000	-1.4290	88.600	-233.93E-6	-0.17242	2.1461E-6
	-20.00000	17.31250	89.00000	-1.5008	88.600	-274.70E-6	-0.18719	2.3283E-6
	-20.00000	18.50000	89.00000	-1.5747	88.600	-322.53E-6	-0.20319	2.5255E-6
	-20.00000	19.68750	89.00000	-1.6507	88.600	-378.80E-6	-0.22056	2.7392E-6
	-20.00000	20.87500	89.00000	-1.7287	88.600	-445.14E-6	-0.23945	2.9713E-6
	-20.00000	22.06250	89.00000	-1.8087	88.600	-523.49E-6	-0.26003	3.2236E-6
	-20.00000	23.25000	89.00000	-1.8904	88.600	-616.08E-6	-0.28248	3.4984E-6
	-20.00000	24.43750	89.00000	-1.9738	88.600	-725.49E-6	-0.30699	3.7977E-6
	-20.00000	25.62500	89.00000	-2.0586	88.600	-854.61E-6	-0.33373	4.1235E-6
	-20.00000	26.81250	89.00000	-2.1446	88.600	-1001.00E-6	-0.36287	4.4777E-6
	-20.00000	28.00000	89.00000	-2.2314	88.600	-1181.84E-6	-0.39457	4.8621E-6
	-20.00000	29.18750	89.00000	-2.3188	88.600	-1391.92E-6	-0.42895	5.2779E-6
	-20.00000	30.37500	89.00000	-2.4065	88.600	-1630.63E-6	-0.46611	5.7260E-6
	-20.00000	31.56250	89.00000	-2.4942	88.600	-1901.91E-6	-0.50609	6.2069E-6
	-20.00000	32.75000	89.00000	-2.5819	88.600	-2202.25E-6	-0.54891	6.7205E-6
	-20.00000	33.93750	89.00000	-2.6693	88.600	-2535.78E-6	-0.59450	7.2660E-6
	-20.00000	35.12500	89.00000	-2.7564	88.600	-2902.97E-6	-0.64276	7.8421E-6
	-20.00000	36.31250	89.00000	-2.8436	88.600	-3304.00E-6	-0.69356	8.4472E-6
	-20.00000	37.50000	89.00000	-2.9310	88.600	-3738.86E-6	-0.74673	9.0796E-6
	-20.00000	38.68750	89.00000	-3.0190	88.600	-4207.55E-6	-0.80216	9.7379E-6
	-20.00000	39.87500	89.00000	-3.1085	88.600	-4710.07E-6	-0.85979	10.422E-6
	-20.00000	41.06250	89.00000	-3.2002	88.600	-5247.34E-6	-0.91976	11.133E-6
	-20.00000	42.25000	89.00000	-3.2954	88.600	-5820.41E-6	-0.98243	11.875E-6
	-20.00000	43.43750	89.00000	-3.3952	88.600	-6430.29E-6	-1.0485	12.655E-6
	-20.00000	44.62500	89.00000	-3.5013	88.600	-7077.00E-6	-1.1182	13.487E-6
	-20.00000	45.81250	89.00000	-3.6156	88.600	-7860.63E-6	-1.1924	14.389E-6
	-20.00000	47.00000	89.00000	-3.7399	88.600	-8683.08E-6	-1.2821	15.386E-6
	-20.00000	48.18750	89.00000	-3.8764	88.600	-9545.36E-6	-1.3803	16.513E-6
	-20.00000	49.37500	89.00000	-4.0273	88.600	-10448.47E-6	-1.4959	17.818E-6
	-20.00000	50.56250	89.00000	-4.1948	88.600	-11494.44E-6	-1.6357	19.362E-6
	-20.00000	51.75000	89.00000	-4.3812	88.600	-12685.27E-6	-1.8020	21.223E-6
	-20.00000	52.93750	89.00000	-4.5888	88.600	-14033.66E-6	-2.0293	23.496E-6
	-20.00000	54.12500	89.00000	-4.8201	88.600	-15541.71E-6	-2.3150	26.286E-6
	-20.00000	55.31250	89.00000	-5.0778	88.600	-17310.54E-6	-2.6915	29.682E-6
	-20.00000	56.50000	89.00000	-5.3641	88.600	-19361.17E-6	-3.1904	33.807E-6
	-20.00000	57.68750	89.00000	-5.6787	88.600	-21704.70E-6	-3.8419	38.060E-6
	-20.00000	58.87500	89.00000	-6.0134	88.600	-24352.22E-6	-4.6488	42.358E-6
	-20.00000	60.06250	89.00000	-6.3459	88.600	-27315.85E-6	-5.5447	46.242E-6
	-20.00000	61.25000	89.00000	-6.6412	88.600	-30596.68E-6	-6.5927	49.888E-6
	-20.00000	62.43750	89.00000	-6.9646	88.600	-34296.71E-6	-7.8690	53.807E-6
	-20.00000	63.62500	89.00000	-7.3038	88.600	-38418.04E-6	-9.3957	58.063E-6
	-20.00000	64.81250	89.00000	-7.6470	88.600	-42962.67E-6	-11.1825	62.662E-6
	-20.00000	66.00000	89.00000	-8.0000	88.600	-47933.50E-6	-13.2452	67.779E-6
	-20.00000	67.18750	89.00000	-8.3504	88.600	-53342.83E-6	-15.5986	73.474E-6
	-20.00000	68.37500	89.00000	-8.7024	88.600	-59193.66E-6	-18.2589	79.807E-6
	-20.00000	69.56250	89.00000	-9.0500	88.600	-65498.00E-6	-21.2422	86.822E-6
	-20.00000	70.75000	89.00000	-9.3988	88.600	-72267.83E-6	-24.5791	94.583E-6
	-20.00000	71.93750	89.00000	-9.7438	88.600			



SOUTHERN TESTING LABORATORIES

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Kidderpore East Side
CASE 5- Drained Movements

Name	Location		Z [Level]	Z	Calc Level	Stresses		Vert Strain
	X [m]	Y [m]				[mm]	[m/D]	
						[kN/m ²]	[kN/m ²]	[-]
-20.00000	82.62500	89.00000	-2.3109	88.600	-0.0066438	-0.81828	9.7681E-6	
-20.00000	83.81250	89.00000	-2.1170	88.600	-0.0048783	-0.69952	8.4108E-6	
-20.00000	85.00000	89.00000	-1.9425	88.600	-0.0036403	-0.60239	7.2851E-6	
-18.75000	-10.00000	89.00000	-0.46109	88.600	-9.0649E-6	-0.038821	0.0	
-18.75000	-8.81250	89.00000	-0.48661	88.600	-9.4643E-6	-0.040481	0.0	
-18.75000	-0.62500	89.00000	-0.51340	88.600	-9.8338E-6	-0.042233	0.0	
-18.75000	-6.43750	89.00000	-0.54157	88.600	-10.391E-6	-0.044102	0.0	
-18.75000	-5.25000	89.00000	-0.57122	88.600	-11.013E-6	-0.046125	0.0	
-18.75000	-4.06250	89.00000	-0.60251	88.600	-11.847E-6	-0.048349	0.0	
-18.75000	-2.87500	89.00000	-0.63560	88.600	-13.008E-6	-0.050834	0.0	
-18.75000	4.25000	89.00000	-0.67066	88.600	-14.643E-6	-0.053652	0.0	
-18.75000	-0.50000	89.00000	-0.70789	88.600	-16.935E-6	-0.056882	0.0	
-18.75000	0.68750	89.00000	-0.74747	88.600	-20.085E-6	-0.060611	0.0	
-18.75000	1.87500	89.00000	-0.78960	88.600	-24.316E-6	-0.064925	0.0	
-18.75000	3.06250	89.00000	-0.83445	88.600	-29.861E-6	-0.069907	0.0	
-18.75000	4.25000	89.00000	-0.88214	88.600	-36.953E-6	-0.075632	0.0	
-18.75000	5.43750	89.00000	-0.93278	88.600	-45.823E-6	-0.082160	1.0275E-6	
-18.75000	6.62500	89.00000	-0.98643	88.600	-56.700E-6	-0.089538	1.1193E-6	
-18.75000	7.81250	89.00000	-1.0431	88.600	-69.816E-6	-0.097799	1.2220E-6	
-18.75000	9.00000	89.00000	-1.1028	88.600	-85.422E-6	-0.10696	1.3358E-6	
-18.75000	10.18750	89.00000	-1.1654	88.600	-103.81E-6	-0.11704	1.4609E-6	
-18.75000	11.37500	89.00000	-1.2309	88.600	-125.32E-6	-0.12806	1.5975E-6	
-18.75000	12.56250	89.00000	-1.2992	88.600	-150.42E-6	-0.14003	1.7458E-6	
-18.75000	13.75000	89.00000	-1.3701	88.600	-179.66E-6	-0.15299	1.9063E-6	
-18.75000	14.93750	89.00000	-1.4438	88.600	-213.80E-6	-0.16700	2.0795E-6	
-18.75000	16.12500	89.00000	-1.5209	88.600	-253.78E-6	-0.18214	2.2652E-6	
-18.75000	17.31250	89.00000	-1.5986	88.600	-300.77E-6	-0.19854	2.4687E-6	
-18.75000	18.50000	89.00000	-1.6798	88.600	-356.27E-6	-0.21633	2.6878E-6	
-18.75000	19.68750	89.00000	-1.7634	88.600	-422.09E-6	-0.23569	2.9258E-6	
-18.75000	20.87500	89.00000	-1.8494	88.600	-500.44E-6	-0.25683	3.1852E-6	
-18.75000	22.06250	89.00000	-1.9386	88.600	-593.98E-6	-0.27997	3.4686E-6	
-18.75000	23.25000	89.00000	-2.0282	88.600	-705.86E-6	-0.30537	3.7788E-6	
-18.75000	24.43750	89.00000	-2.1207	88.600	-839.80E-6	-0.33327	4.1189E-6	
-18.75000	25.62500	89.00000	-2.2148	88.600	-0.0010001	-0.36394	4.4916E-6	
-18.75000	26.81250	89.00000	-2.3104	88.600	-0.0011915	-0.39761	4.8997E-6	
-18.75000	28.00000	89.00000	-2.4077	88.600	-0.001495	-0.43451	5.3457E-6	
-18.75000	29.18750	89.00000	-2.5043	88.600	-0.0016895	-0.47484	5.8314E-6	
-18.75000	30.37500	89.00000	-2.6018	88.600	-0.0020073	-0.51874	6.3584E-6	
-18.75000	31.56250	89.00000	-2.6992	88.600	-0.0023780	-0.56630	6.9273E-6	
-18.75000	32.75000	89.00000	-2.7962	88.600	-0.0028055	-0.61754	7.5380E-6	
-18.75000	33.93750	89.00000	-2.8926	88.600	-0.0032919	-0.67238	8.1895E-6	
-18.75000	35.12500	89.00000	-2.9885	88.600	-0.0038366	-0.73065	8.8798E-6	
-18.75000	36.31250	89.00000	-3.0839	88.600	-0.0044359	-0.79212	9.6060E-6	
-18.75000	37.50000	89.00000	-3.1792	88.600	-0.0050835	-0.85647	10.365E-6	
-18.75000	38.68750	89.00000	-3.2749	88.600	-0.0057734	-0.92340	11.1533E-6	
-18.75000	39.87500	89.00000	-3.3718	88.600	-0.0064921	-0.99270	11.968E-6	
-18.75000	41.06250	89.00000	-3.4710	88.600	-0.0072425	-1.0643	12.811E-6	
-18.75000	42.25000	89.00000	-3.5738	88.600	-0.0080270	-1.1386	13.684E-6	
-18.75000	43.43750	89.00000	-3.6822	88.600	-0.0088628	-1.2163	14.596E-6	
-18.75000	44.62500	89.00000	-3.7961	88.600	-0.0097857	-1.2979	15.548E-6	
-18.75000	45.81250	89.00000	-3.9240	88.600	-0.010858	-1.3884	16.540E-6	
-18.75000	47.00000	89.00000	-4.0628	88.600	-0.012184	-1.4882	17.575E-6	
-18.75000	48.18750	89.00000	-4.2174	88.600	-0.013933	-1.6030	19.666E-6	
-18.75000	49.37500	89.00000	-4.3912	88.600	-0.016388	-1.7395	20.955E-6	
-18.75000	50.56250	89.00000	-4.5876	88.600	-0.020076	-1.9076	22.429E-6	
-18.75000	51.75000	89.00000	-4.8105	88.600	-0.025753	-2.1215	24.683E-6	
-18.75000	52.93750	89.00000	-5.0642	88.600	-0.035210	-2.4030	27.503E-6	
-18.75000	54.12500	89.00000	-5.3539	88.600	-0.051772	-2.7856	31.057E-6	
-18.75000	55.31250	89.00000	-5.6870	88.600	-0.082669	-3.3222	35.465E-6	
-18.75000	56.50000	89.00000	-6.0642	88.600	-0.14422	-4.0962	40.548E-6	
-18.75000	57.68750	89.00000	-6.5281	88.600	-0.27255	-5.2299	45.107E-6	
-18.75000	58.87500	89.00000	-7.0522	88.600	-0.52808	-6.8334	45.990E-6	
-18.75000	60.06250	89.00000	-7.6112	88.600	-0.91657	-8.7991	41.407E-6	
-18.75000	61.25000	89.00000	-8.1174	88.600	-1.2742	-10.652	37.723E-6	
-18.75000	62.43750	89.00000	-8.6928	88.600	-1.4927	-12.002	38.965E-6	
-18.75000	63.62500	89.00000	-9.3222	88.600	-1.5804	-12.828	41.984E-6	
-18.75000	64.81250	89.00000	-8.8056	88.600	-1.6209	-13.239	44.091E-6	
-18.75000	66.00000	89.00000	-8.7536	88.600	-1.6298	-13.314	44.356E-6	
-18.75000	67.18750	89.00000	-8.5693	88.600	-1.6129	-13.074	42.620E-6	
-18.75000	68.37500	89.00000	-8.2496	88.600	-1.5606	-12.426	39.191E-6	
-18.75000	69.56250	89.00000	-7.7876	88.600	-1.4385	-11.450	35.370E-6	
-18.75000	70.75000	89.00000	-7.1840	88.600	-1.1896	-9.8761	34.365E-6	
-18.75000	71.93750	89.00000	-6.4766	88.600	-0.80354	-7.8678	38.230E-6	
-18.75000	73.12500	89.00000	-5.7560	88.600	-0.44014	-5.8950	40.835E-6	
-18.75000	74.31250	89.00000	-4.9323	88.600	-0.22347	-4.3560	47.837E-6	
-18.75000	75.50000	89.00000	-4.5387	88.600	-0.11741	-3.2724	32.224E-6	
-18.75000	76.68750	89.00000	-4.0571	88.600	-0.065946	-2.5188	26.642E-6	
-18.75000	77.87500	89.00000	-3.6434	88.600	-0.039499	-1.9838	21.920E-6	
-18.75000	79.06250	89.00000	-3.2850	88.600	-0.024966	-1.5935	18.117E-6	
-18.75000	80.25000	89.00000	-2.9722	88.600	-0.016421	-1.2012	15.088E-6	
-18.75000	81.43750	89.00000	-2.6972	88.600	-0.011266	-0.9773	12.670E-6	
-18.75000	82.62500	89.00000	-2.4541	88.600	-0.0079226	-0.90245	10.728E-6	
-18.75000	83.81250	89.00000	-2.2383	88.600	-0.0057024	-0.76366	9.1536E-6	
-18.75000	85.00000	89.00000	-2.0458	88.600	-0.0041846	-0.65195	7.8660E-6	
-17.50000	-10.37500	89.00000	-0.47909	88.600	-7.4915E-6	-0.038973	0.0	
-17.50000	-8.81250	89.00000	-0.50569	88.600	-7.4134E-6	-0.040486	0.0	
-17.50000	-7.62500	89.00000	-0.53359	88.600	-7.2518E-6	-0.042052	0.0	
-17.50000	-6.43750	89.00000	-0.56290	88.600	-7.0342E-6	-0.043697	0.0	
-17.50000	-5.25000	89.00000	-0.59377	88.600	-6.8187E-6	-0.045461	0.0	
-17.50000	-4.06250	89.00000	-0.62635	88.600	-6.7039E-6	-0.047401	0.0	
-17.50000	-2.87500	89.00000	-0.66084	88.600	-6.8375E-6	-0.049593	0.0	
-17.50000	-1.68750	89.00000	-0.69748	88.600	-7.4208E-6	-0.052132	0.0	
-17.50000	-0.50000	89.00000	-0.73651	88.600	-8.7061E-6	-0.055127	0.0	
-17.50000	0.68750	89.00000	-0.77819	88.600	-10.987E-6	-0.058699	0.0	
-17.50000	1.87500	89.00000	-0.82577	88.600	-14.584E-6	-0.062929	0.0	
-17.50000	3.06250	89.00000	-0.87048	88.600	-19.821E-6	-0.068053	0.0	
-17.50000	4.25000	89.00000	-0.92150	88.600	-27.012E-6	-0.074050	0.0	
-17.50000	5.43750	89.00000	-0.97595	88.600	-36.449E-6	-0.081039	1.0142E-6	
-17.50000	6.62500	89.00000	-1.0339	88.600	-48.397E-6	-0.089073	1.1141E-6	
-17.50000	7.81250	89.00000	-1.0954	88.600	-63.104E-6	-0.10179	1.2276E-6	
-17.50000	9.00000	89.00000	-1.1604	88.600	-80.818E-6	-0.10837	1.3538E-6	
-17.50000	10.18750	89.00000	-1.2287	88.600	-101.82E-6	-0.11963	1.4935E-6	
-17.50000	11.37500	89.00000	-1.3004	88.600	-126.46E-6	-0.13195	1.6463E-6	
-17.50000	12.56250	89.00000	-1.3752	88.600	-155.20E-6	-0.14534	1.8122E-6	
-17.50000	13.75000	89.00000	-1.4530	88.600	-188.70E-6	-0.15983	1.9914E-6	
-17.50000	14.93750	89.00000	-1.5337	88.600	-227.80E-6	-0.17545	2.1845E-6	
-17.50000	16.12500	89.00000	-1.6174	88.600	-273.67E-6	-0.19231	2.3926E-6	
-17.50000	17.31250	89.00000	-1.7038	88.600	-327.80E-6	-0.21055	2.6174E-6	
-17.50000	18.50000	89.00000	-1.7931	88.600	-392.08E-6	-0.23034	2.8610E-6	
-17.50000	19.68750	89.00000	-1.8853	88.600	-468.93E-6	-0.25193	3.1261E-6	
-17.50000	20.87500	89.00000	-1.9802	88.600	-561.32E-6	-0.27558	3.4159E-6	
-17.50000	22.06250	89.00000	-2.0780	88.600	-672.91E-6	-0.30162	3.7342E-6	
-17.50000	23.25000	89.00000	-2.1784	88.600	-808.16E-6	-0.33037	4.0848E-6	
-17.50000	24.43750	89.00000	-2.2812	88.600	-972.45E-6			



**SOUTHERN TESTING
LABORATORIES**

Kidderpore East Side
CASE 5- Drained Movements

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by Date Checked

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [moD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-17.50000	57.68750	89.00000	-7.5646	88.600	-0.57411	-7.2607	47.886E-6	
-17.50000	58.87500	89.00000	-8.4361	88.600	-1.5779	-10.757	16.180E-6	
-17.50000	60.06250	89.00000	-9.5088	88.600	-3.8195	-15.989	-86.935E-6	
-17.50000	61.25000	89.00000	-10.479	88.600	-5.7245	-20.762	-170.47E-6	
-17.50000	62.43750	89.00000	-11.127	88.600	-6.4430	-23.594	-189.03E-6	
-17.50000	63.62500	89.00000	-11.491	88.600	-6.6767	-25.059	-188.24E-6	
-17.50000	64.81250	89.00000	-11.631	88.600	-6.7558	-25.727	-185.82E-6	
-17.50000	66.00000	89.00000	-11.579	88.600	-6.7720	-25.853	-185.46E-6	
-17.50000	67.18750	89.00000	-11.345	88.600	-6.7415	-25.495	-187.65E-6	
-17.50000	68.37500	89.00000	-10.915	88.600	-6.6343	-24.551	-191.43E-6	
-17.50000	69.56250	89.00000	-10.250	88.600	-6.4202	-22.695	-191.07E-6	
-17.50000	70.75000	89.00000	-9.2902	88.600	-5.3540	-19.275	-161.24E-6	
-17.50000	71.93750	89.00000	-8.0438	88.600	-3.1427	-14.016	-60.743E-6	
-17.50000	73.12500	89.00000	-6.8136	88.600	-1.1920	-9.0510	23.827E-6	
-17.50000	74.31250	89.00000	-5.8339	88.600	-0.44126	-5.9496	41.436E-6	
-17.50000	75.50000	89.00000	-4.9725	88.600	-0.19312	-4.1509	37.692E-6	
-17.50000	76.68750	89.00000	-4.4635	88.600	-0.095569	-3.0471	31.041E-6	
-17.50000	77.87500	89.00000	-3.9622	88.600	-0.053148	-2.3235	25.155E-6	
-17.50000	79.06250	89.00000	-3.5406	88.600	-0.031934	-1.8230	20.472E-6	
-17.50000	80.25000	89.00000	-3.1803	88.600	-0.020321	-1.4622	16.819E-6	
-17.50000	81.43750	89.00000	-2.8688	88.600	-0.01509	-1.1936	13.961E-6	
-17.50000	82.62500	89.00000	-2.5971	88.600	-0.0092909	-0.98835	11.703E-6	
-17.50000	83.81250	89.00000	-2.3584	88.600	-0.0065666	-0.82829	9.8995E-6	
-17.50000	85.00000	89.00000	-2.1474	88.600	-0.0047452	-0.70133	8.4434E-6	
-16.25000	-10.00000	89.00000	-0.49757	88.600	-5.3344E-6	-0.039975	0.0	
-16.25000	-8.81250	89.00000	-0.82524	88.600	-4.5438E-6	-0.040287	0.0	
-16.25000	-7.62500	89.00000	-0.55421	88.600	-3.4729E-6	-0.041547	0.0	
-16.25000	-6.43750	89.00000	-0.58460	88.600	-2.1216E-6	-0.042838	0.0	
-16.25000	-5.25000	89.00000	-0.61656	88.600	0.0	-0.044181	0.0	
-16.25000	-4.06250	89.00000	-0.65029	88.600	1.1886E-6	-0.045644	0.0	
-16.25000	-2.87500	89.00000	-0.68604	88.600	2.8525E-6	-0.047322	0.0	
-16.25000	-1.68750	89.00000	-0.72409	88.600	4.1764E-6	-0.049345	0.0	
-16.25000	-0.50000	89.00000	-0.76478	88.600	4.7841E-6	-0.051866	0.0	
-16.25000	0.68750	89.00000	-0.80845	88.600	4.2256E-6	-0.055060	0.0	
-16.25000	1.87500	89.00000	-0.85745	88.600	2.1066E-6	-0.059105	0.0	
-16.25000	3.06250	89.00000	-0.90609	88.600	-2.3508E-6	-0.064167	0.0	
-16.25000	4.25000	89.00000	-0.96062	88.600	-9.3094E-6	-0.070390	0.0	
-16.25000	5.43750	89.00000	-1.0192	88.600	-19.251E-6	-0.077876	0.0	
-16.25000	6.62500	89.00000	-1.0820	88.600	-32.487E-6	-0.086689	1.0854E-6	
-16.25000	7.81250	89.00000	-1.1489	88.600	-49.260E-6	-0.096843	1.2115E-6	
-16.25000	9.00000	89.00000	-1.2199	88.600	-69.775E-6	-0.10832	1.3540E-6	
-16.25000	10.18750	89.00000	-1.2948	88.600	-94.242E-6	-0.12107	1.5122E-6	
-16.25000	11.37500	89.00000	-1.3734	88.600	-122.94E-6	-0.13505	1.6854E-6	
-16.25000	12.56250	89.00000	-1.4556	88.600	-156.31E-6	-0.15020	1.8731E-6	
-16.25000	13.75000	89.00000	-1.5411	88.600	-195.01E-6	-0.16635	2.0751E-6	
-16.25000	14.93750	89.00000	-1.6299	88.600	-240.02E-6	-0.18407	2.2918E-6	
-16.25000	16.12500	89.00000	-1.7219	88.600	-292.73E-6	-0.20292	2.5243E-6	
-16.25000	17.31250	89.00000	-1.8171	88.600	-354.99E-6	-0.22324	2.7747E-6	
-16.25000	18.50000	89.00000	-1.9155	88.600	-429.25E-6	-0.24528	3.0456E-6	
-16.25000	19.68750	89.00000	-2.0171	88.600	-516.67E-6	-0.26953	3.3406E-6	
-16.25000	20.87500	89.00000	-2.1222	88.600	-627.25E-6	-0.29577	3.6643E-6	
-16.25000	22.06250	89.00000	-2.2306	88.600	-760.03E-6	-0.32503	4.0214E-6	
-16.25000	23.25000	89.00000	-2.3423	88.600	-923.32E-6	-0.35759	4.4178E-6	
-16.25000	24.43750	89.00000	-2.4572	88.600	-0.0011249	-0.39397	4.8590E-6	
-16.25000	25.62500	89.00000	-2.5749	88.600	-0.0013743	-0.43458	5.3512E-6	
-16.25000	26.81250	89.00000	-2.6949	88.600	-0.0016829	-0.48026	5.8999E-6	
-16.25000	28.00000	89.00000	-2.8165	88.600	-0.0020645	-0.53119	6.5103E-6	
-16.25000	29.18750	89.00000	-2.9390	88.600	-0.0025347	-0.58794	7.1870E-6	
-16.25000	30.37500	89.00000	-3.0616	88.600	-0.0031111	-0.65089	7.9335E-6	
-16.25000	31.56250	89.00000	-3.1858	88.600	-0.0038020	-0.72034	8.7522E-6	
-16.25000	32.75000	89.00000	-3.3040	88.600	-0.0045542	-0.79645	9.6439E-6	
-16.25000	33.93750	89.00000	-3.4229	88.600	-0.0055011	-0.87918	10.607E-6	
-16.25000	35.12500	89.00000	-3.5399	88.600	-0.0068032	-0.96823	11.638E-6	
-16.25000	36.31250	89.00000	-3.6551	88.600	-0.0083043	-1.0630	12.729E-6	
-16.25000	37.50000	89.00000	-3.7688	88.600	-0.0099528	-1.16505	13.870E-6	
-16.25000	38.68750	89.00000	-3.8815	88.600	-0.011038	-1.2656	15.050E-6	
-16.25000	39.87500	89.00000	-3.9940	88.600	-0.012587	-1.3711	16.258E-6	
-16.25000	41.06250	89.00000	-4.1079	88.600	-0.014138	-1.4782	17.485E-6	
-16.25000	42.25000	89.00000	-4.2252	88.600	-0.015667	-1.5865	18.729E-6	
-16.25000	43.43750	89.00000	-4.3488	88.600	-0.017383	-1.6966	19.999E-6	
-16.25000	44.62500	89.00000	-4.4825	88.600	-0.018732	-1.8102	21.305E-6	
-16.25000	45.81250	89.00000	-4.6307	88.600	-0.020413	-1.9305	22.689E-6	
-16.25000	47.00000	89.00000	-4.7988	88.600	-0.022394	-2.0625	24.196E-6	
-16.25000	48.18750	89.00000	-4.9927	88.600	-0.024966	-2.2138	25.900E-6	
-16.25000	49.37500	89.00000	-5.2129	88.600	-0.028292	-2.3915	27.905E-6	
-16.25000	50.56250	89.00000	-5.4865	88.600	-0.034302	-2.6249	30.356E-6	
-16.25000	51.75000	89.00000	-5.8036	88.600	-0.043798	-2.9291	33.459E-6	
-16.25000	52.93750	89.00000	-6.1810	88.600	-0.061007	-3.3535	37.489E-6	
-16.25000	54.12500	89.00000	-6.6306	88.600	-0.095239	-3.9788	42.758E-6	
-16.25000	55.31250	89.00000	-7.1350	88.600	-0.17216	-4.9619	49.302E-6	
-16.25000	56.50000	89.00000	-7.8556	88.600	-0.37744	-6.6443	54.958E-6	
-16.25000	57.68750	89.00000	-8.7878	88.600	-1.0793	-9.8807	42.728E-6	
-16.25000	58.87500	89.00000	-10.225	88.600	-4.2678	-16.993	-108.09E-6	
-16.25000	60.06250	89.00000	-12.480	88.600	-15.359	-30.796	-769.98E-6	
-16.25000	61.25000	89.00000	-14.438	88.600	-23.917	-42.712	-0.0012649	
-16.25000	62.43750	89.00000	-15.498	88.600	-25.900	-48.121	-0.0013462	
-16.25000	63.62500	89.00000	-16.036	88.600	-26.362	-50.471	-0.0013515	
-16.25000	64.81250	89.00000	-16.241	88.600	-26.495	-51.457	-0.0013491	
-16.25000	66.00000	89.00000	-16.189	88.600	-26.520	-51.642	-0.0013487	
-16.25000	67.18750	89.00000	-15.895	88.600	-26.472	-51.141	-0.0013414	
-16.25000	68.37500	89.00000	-15.331	88.600	-26.287	-49.748	-0.0013549	
-16.25000	69.56250	89.00000	-14.401	88.600	-25.622	-46.703	-0.0013431	
-16.25000	70.75000	89.00000	-12.866	88.600	-22.601	-39.790	-0.0012024	
-16.25000	71.93750	89.00000	-10.416	88.600	-11.751	-26.071	-557.58E-6	
-16.25000	73.12500	89.00000	-8.2548	88.600	-2.9767	-13.750	-4.0545E-6	
-16.25000	74.31250	89.00000	-6.6488	88.600	-0.78002	-7.9247	40.716E-6	
-16.25000	75.50000	89.00000	-5.6402	88.600	-0.28662	-5.1456	42.991E-6	
-16.25000	76.68750	89.00000	-4.8844	88.600	-0.13050	-3.6172	35.565E-6	
-16.25000	77.87500	89.00000	-4.2867	88.600	-0.068402	-2.6795	28.474E-6	
-16.25000	79.06250	89.00000	-3.8954	88.600	-0.034959	-2.0589	22.865E-6	
-16.25000	80.25000	89.00000	-3.3872	88.600	-0.024368	-1.6251	18.558E-6	
-16.25000	81.43750	89.00000	-3.0380	88.600	-0.015826	-1.3097	15.243E-6	
-16.25000	82.62500	89.00000	-2.7370	88.600	-0.010682	-1.0732	12.662E-6	
-16.25000	83.81250	89.00000	-2.4751	88.600	-0.0074319	-0.89146	10.627E-6	
-16.25000	85.00000	89.00000	-2.2456	88.600	-0.0052981	-0.74913	9.0017E-6	
-15.00000	-10.00000	89.00000	-0.51659	88.600	-2.4340E-6	-0.038812	0.0	
-15.00000	-8.81250	89.00000	-0.54531	88.600	0.0	-0.039784	0.0	
-15.00000	-7.62500	89.00000	-0.57528	88.600	1.8699E-6	-0.040643	0.0	
-15.00000	-6.43750	89.00000	-0.60664	88.600	5.0164E-6	-0.041397	0.0	
-15.00000	-5.25000	89.00000	-0.63953	88.600	8.8595E-6	-0.042081	0.0	
-15.00000	-4.06250	89.00000	-0.67418	88.6				



SOUTHERN TESTING LABORATORIES

Kidderpore East Side CASE 5- Drained Movements

Job No. Sheet No. Rev. J12093 Drg. Ref. Made by Date Checked

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 100 rows of numerical data.



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore East Side
CASE 5- Drained Movements

Name	Location	Z[Level]	Z	Calc Level	Vert Stress	Sum Princ	Vert Strain
X [m]	Y [m]	[mOD]	[mm]	[mOD]	[kN/m ²]	[kN/m ²]	[-]
-12.50000	7.81250	89.00000	-1.3077	88.600	118.76E-6	-0.068330	0.0
-12.50000	9.00000	89.00000	-1.4035	88.600	75.483E-6	-0.087475	1.1034E-6
-12.50000	10.18750	89.00000	-1.5056	88.600	23.405E-6	-0.10915	1.3714E-6
-12.50000	11.37500	89.00000	-1.6133	88.600	-35.639E-6	-0.13275	1.6631E-6
-12.50000	12.56250	89.00000	-1.7258	88.600	-100.16E-6	-0.15771	1.9715E-6
-12.50000	13.75000	89.00000	-1.8425	88.600	-169.59E-6	-0.18352	2.2914E-6
-12.50000	14.93750	89.00000	-1.9628	88.600	-244.64E-6	-0.21028	2.6204E-6
-12.50000	16.12500	89.00000	-2.0869	88.600	-327.48E-6	-0.23775	2.9588E-6
-12.50000	17.31250	89.00000	-2.2148	88.600	-421.63E-6	-0.26631	3.3100E-6
-12.50000	18.50000	89.00000	-2.3470	88.600	-532.16E-6	-0.29647	3.6803E-6
-12.50000	19.68750	89.00000	-2.4841	88.600	-665.97E-6	-0.32838	4.0781E-6
-12.50000	20.87500	89.00000	-2.6269	88.600	-832.52E-6	-0.36479	4.5150E-6
-12.50000	22.06250	89.00000	-2.7762	88.600	-0.0010447	-0.40513	5.0051E-6
-12.50000	23.25000	89.00000	-2.9326	88.600	-0.0013203	-0.45142	5.5653E-6
-12.50000	24.43750	89.00000	-3.0965	88.600	-0.0016829	-0.50532	6.2143E-6
-12.50000	25.62500	89.00000	-3.2679	88.600	-0.0021642	-0.56852	6.9712E-6
-12.50000	26.81250	89.00000	-3.4458	88.600	-0.0028059	-0.64275	7.8544E-6
-12.50000	28.00000	89.00000	-3.6285	88.600	-0.0036641	-0.72965	8.8802E-6
-12.50000	29.18750	89.00000	-3.8136	88.600	-0.0048141	-0.83080	10.063E-6
-12.50000	30.37500	89.00000	-3.9981	88.600	-0.0063551	-0.94784	11.4155E-6
-12.50000	31.56250	89.00000	-4.1792	88.600	-0.0084326	-1.08825	12.948E-6
-12.50000	32.75000	89.00000	-4.3550	88.600	-0.0112121	-1.2368	14.675E-6
-12.50000	33.93750	89.00000	-4.5248	88.600	-0.014897	-1.4123	16.600E-6
-12.50000	35.12500	89.00000	-4.6890	88.600	-0.019681	-1.6101	18.723E-6
-12.50000	36.31250	89.00000	-4.8483	88.600	-0.025563	-1.8295	21.025E-6
-12.50000	37.50000	89.00000	-5.0029	88.600	-0.032333	-2.0666	23.489E-6
-12.50000	38.68750	89.00000	-5.1515	88.600	-0.040495	-2.3145	25.995E-6
-12.50000	39.87500	89.00000	-5.2931	88.600	-0.048828	-2.5639	28.534E-6
-12.50000	41.06250	89.00000	-5.4261	88.600	-0.058604	-2.8056	31.020E-6
-12.50000	42.25000	89.00000	-5.5501	88.600	-0.069191	-3.0335	33.404E-6
-12.50000	43.43750	89.00000	-5.6653	88.600	-0.067180	-3.2457	35.671E-6
-12.50000	44.62500	89.00000	-5.7976	88.600	-0.071547	-3.4446	37.838E-6
-12.50000	45.81250	89.00000	-5.9533	88.600	-0.075338	-3.6362	39.957E-6
-12.50000	47.00000	89.00000	-6.1482	88.600	-0.078980	-3.8299	42.113E-6
-12.50000	48.18750	89.00000	-6.3326	88.600	-0.083049	-4.0387	44.427E-6
-12.50000	49.37500	89.00000	-6.5170	88.600	-0.088453	-4.2810	47.064E-6
-12.50000	50.56250	89.00000	-6.7003	88.600	-0.096596	-4.5844	50.255E-6
-12.50000	51.75000	89.00000	-6.8841	88.600	-0.11059	-4.9926	54.324E-6
-12.50000	52.93750	89.00000	-7.0689	88.600	-0.13700	-5.5805	59.712E-6
-12.50000	54.12500	89.00000	-7.2549	88.600	-0.19215	-6.4860	66.922E-6
-12.50000	55.31250	89.00000	-7.4424	88.600	-0.32234	-7.9870	75.957E-6
-12.50000	56.50000	89.00000	-7.6307	88.600	-0.68486	-10.706	82.784E-6
-12.50000	57.68750	89.00000	-7.8201	88.600	-1.9564	-16.222	56.269E-6
-12.50000	58.87500	89.00000	-8.0101	88.600	-7.7132	-28.778	-219.61E-6
-12.50000	60.06250	89.00000	-8.2007	88.600	-27.339	-53.331	-0.00139E-6
-12.50000	61.25000	89.00000	-8.3928	88.600	-42.354	-74.541	-0.00226E-6
-12.50000	62.43750	89.00000	-8.5854	88.600	-46.150	-84.072	-0.002419E-6
-12.50000	63.62500	89.00000	-8.7785	88.600	-46.986	-88.085	-0.002432E-6
-12.50000	64.81250	89.00000	-8.9721	88.600	-47.220	-89.704	-0.002429E-6
-12.50000	66.00000	89.00000	-9.1662	88.600	-47.263	-89.975	-0.002429E-6
-12.50000	67.18750	89.00000	-9.3608	88.600	-47.177	-89.109	-0.002433E-6
-12.50000	68.37500	89.00000	-9.5559	88.600	-46.844	-86.720	-0.002438E-6
-12.50000	69.56250	89.00000	-9.7515	88.600	-45.634	-81.394	-0.002414E-6
-12.50000	70.75000	89.00000	-9.9476	88.600	-40.170	-69.075	-0.002157E-6
-12.50000	71.93750	89.00000	-10.1442	88.600	-20.958	-44.515	-0.001018E-6
-12.50000	73.12500	89.00000	-10.3413	88.600	-5.1863	-22.586	-107.07E-6
-12.50000	74.31250	89.00000	-10.5389	88.600	-1.3810	-12.297	50.330E-6
-12.50000	75.50000	89.00000	-10.7370	88.600	-0.48738	-7.5545	58.103E-6
-12.50000	76.68750	89.00000	-10.9356	88.600	-0.21168	-5.0615	47.577E-6
-12.50000	77.87500	89.00000	-11.1346	88.600	-0.10522	-3.0001	37.201E-6
-12.50000	79.06250	89.00000	-11.3341	88.600	-0.058517	-2.6725	29.130E-6
-12.50000	80.25000	89.00000	-11.5340	88.600	-0.034735	-2.0482	23.087E-6
-12.50000	81.43750	89.00000	-11.7343	88.600	-0.021756	-1.6091	18.554E-6
-12.50000	82.62500	89.00000	-11.9350	88.600	-0.014202	-1.2896	15.113E-6
-12.50000	83.81250	89.00000	-12.1361	88.600	-0.0095797	-1.0516	12.462E-6
-12.50000	85.00000	89.00000	-12.3376	88.600	-0.0066353	-0.86786	10.391E-6
-11.25000	-10.00000	89.00000	-0.57804	88.600	12.763E-6	-0.037340	0.0
-11.25000	-8.81250	89.00000	-0.60974	88.600	21.629E-6	-0.036484	0.0
-11.25000	-7.62500	89.00000	-0.64213	88.600	34.334E-6	-0.034721	0.0
-11.25000	-6.43750	89.00000	-0.67515	88.600	52.223E-6	-0.031831	0.0
-11.25000	-5.25000	89.00000	-0.70880	88.600	76.801E-6	-0.027628	0.0
-11.25000	-4.06250	89.00000	-0.74329	88.600	109.41E-6	-0.022030	0.0
-11.25000	-2.87500	89.00000	-0.77906	88.600	150.63E-6	-0.015168	0.0
-11.25000	-1.68750	89.00000	-0.81695	88.600	199.41E-6	-0.0074970	0.0
-11.25000	-0.50000	89.00000	-0.85614	88.600	252.40E-6	-0.00486	0.0
-11.25000	0.68750	89.00000	-0.90415	88.600	304.07E-6	0.0065591	0.0
-11.25000	1.87500	89.00000	-0.95657	88.600	347.87E-6	0.010461	0.0
-11.25000	3.06250	89.00000	-1.0169	88.600	377.87E-6	0.010589	0.0
-11.25000	4.25000	89.00000	-1.0864	88.600	389.86E-6	0.0060181	0.0
-11.25000	5.43750	89.00000	-1.1666	88.600	381.52E-6	-0.0038041	0.0
-11.25000	6.62500	89.00000	-1.2549	88.600	352.08E-6	-0.019026	0.0
-11.25000	7.81250	89.00000	-1.3539	88.600	302.27E-6	-0.039395	0.0
-11.25000	9.00000	89.00000	-1.4619	88.600	234.50E-6	-0.064253	0.0
-11.25000	10.18750	89.00000	-1.5776	88.600	153.00E-6	-0.092595	1.1735E-6
-11.25000	11.37500	89.00000	-1.6996	88.600	63.032E-6	-0.12223	1.551E-6
-11.25000	12.56250	89.00000	-1.8267	88.600	-30.637E-6	-0.15500	1.9428E-6
-11.25000	13.75000	89.00000	-1.9578	88.600	-125.34E-6	-0.18709	2.3383E-6
-11.25000	14.93750	89.00000	-2.0923	88.600	-221.19E-6	-0.21907	2.7324E-6
-11.25000	16.12500	89.00000	-2.2300	88.600	-320.86E-6	-0.25097	3.1251E-6
-11.25000	17.31250	89.00000	-2.3714	88.600	-429.06E-6	-0.28317	3.5211E-6
-11.25000	18.50000	89.00000	-2.5172	88.600	-552.29E-6	-0.31637	3.9285E-6
-11.25000	19.68750	89.00000	-2.6683	88.600	-699.25E-6	-0.35156	4.3589E-6
-11.25000	20.87500	89.00000	-2.8261	88.600	-882.03E-6	-0.39004	4.8281E-6
-11.25000	22.06250	89.00000	-2.9919	88.600	-0.0011180	-0.43355	5.3563E-6
-11.25000	23.25000	89.00000	-3.1673	88.600	-0.014223	-0.48427	5.9591E-6
-11.25000	24.43750	89.00000	-3.3532	88.600	-0.0018598	-0.54475	6.6958E-6
-11.25000	25.62500	89.00000	-3.5500	88.600	-0.0024485	-0.61770	7.5669E-6
-11.25000	26.81250	89.00000	-3.7568	88.600	-0.0032621	-0.70578	8.6109E-6
-11.25000	28.00000	89.00000	-3.9714	88.600	-0.0043882	-0.81141	9.8517E-6
-11.25000	29.18750	89.00000	-4.1899	88.600	-0.005906	-0.93687	11.308E-6
-11.25000	30.37500	89.00000	-4.4074	88.600	-0.0081290	-1.0846	12.998E-6
-11.25000	31.56250	89.00000	-4.6187	88.600	-0.011187	-1.2574	14.937E-6
-11.25000	32.75000	89.00000	-4.8205	88.600	-0.015505	-1.4593	17.145E-6
-11.25000	33.93750	89.00000	-5.0125	88.600	-0.021597	-1.6946	19.639E-6
-11.25000	35.12500	89.00000	-5.1976	88.600	-0.030067	-1.9675	22.426E-6
-11.25000	36.31250	89.00000	-5.3785	88.600	-0.041424	-2.2796	25.487E-6
-11.25000	37.50000	89.00000	-5.5555	88.600	-0.055673	-2.6260	28.761E-6
-11.25000	38.68750	89.00000	-5.7257	88.600	-0.071875	-2.9935	32.153E-6
-11.25000	39.87500	89.00000	-5.8844	88.600	-0.088214	-3.3618	35.544E-6
-11.25000	41.06250	89.00000	-6.0252	88.600	-0.10282	-3.7107	38.828E-6
-11.25000	42.25000	89.00000	-6.1381	88.600	-0.11468	-4.0271	41.901E-6
-11.25000	43.43750	89.00000	-6.2098	88.600	-0.12374	-4.3078	44.740E-6
-11.25000	44.62500	89.00000	-6.2796	88.600	-0.13057	-4.5574	47.358E-6
-11.25000	45.81250	89.00000	-6.3105	8			



SOUTHERN TESTING LABORATORIES

Kidderpore East Side CASE 5- Drained Movements

Job No. J12093, Sheet No., Rev., Drg. Ref., Made by, Date, Checked

Main data table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain)



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Kidderpore East Side
CASE 5- Drained Movements

Made by Date Checked

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-8.75000	54.12500	89.00000	-12.726	88.600	-0.78807	-12.851	101.93E-6	
-8.75000	55.31250	89.00000	-15.025	88.600	-0.91429	-14.296	110.56E-6	
-8.75000	56.50000	89.00000	-16.584	88.600	-1.2687	-16.926	116.87E-6	
-8.75000	57.68750	89.00000	-18.293	88.600	-2.5234	-22.302	89.867E-6	
-8.75000	58.87500	89.00000	-20.786	88.600	-8.2490	-34.653	-186.23E-6	
-8.75000	60.06250	89.00000	-24.673	88.600	-27.850	-88.950	-0.00135E-6	
-8.75000	61.25000	89.00000	-28.012	88.600	-43.004	-79.904	-0.00223E-6	
-8.75000	62.43750	89.00000	-29.746	88.600	-46.573	-89.220	-0.002387E-6	
-8.75000	63.62500	89.00000	-30.553	88.600	-47.393	-93.056	-0.002400E-6	
-8.75000	64.81250	89.00000	-30.787	88.600	-47.618	-94.510	-0.002399E-6	
-8.75000	66.00000	89.00000	-30.578	88.600	-47.651	-94.595	-0.002607E-6	
-8.75000	67.18750	89.00000	-29.942	88.600	-47.552	-93.492	-0.002407E-6	
-8.75000	68.37500	89.00000	-28.797	88.600	-47.197	-90.785	-0.002414E-6	
-8.75000	69.56250	89.00000	-26.913	88.600	-45.952	-85.026	-0.002392E-6	
-8.75000	70.75000	89.00000	-23.731	88.600	-40.432	-72.152	-0.002138E-6	
-8.75000	71.93750	89.00000	-18.039	88.600	-21.150	-47.021	-0.001002E-6	
-8.75000	73.12500	89.00000	-12.930	88.600	-5.3106	-24.408	-93.554E-6	
-8.75000	74.31250	89.00000	-9.9972	88.600	-1.4545	-13.597	61.110E-6	
-8.75000	75.50000	89.00000	-8.0895	88.600	-0.52899	-8.4600	66.333E-6	
-8.75000	76.68750	89.00000	-6.7356	88.600	-0.23494	-5.6868	53.673E-6	
-8.75000	77.87500	89.00000	-5.7187	88.600	-0.11894	-4.0320	41.641E-6	
-8.75000	79.06250	89.00000	-4.9249	88.600	-0.065848	-2.9722	32.339E-6	
-8.75000	80.25000	89.00000	-4.2879	88.600	-0.038875	-2.2575	25.401E-6	
-8.75000	81.43750	89.00000	-3.7660	88.600	-0.024087	-1.7563	20.226E-6	
-8.75000	82.62500	89.00000	-3.3316	88.600	-0.015448	-1.3938	16.324E-6	
-8.75000	83.81250	89.00000	-3.0252	88.600	-0.010280	-1.1249	13.343E-6	
-8.75000	85.00000	89.00000	-2.6529	88.600	-0.0069923	-0.92124	11.034E-6	
-7.50000	-10.00000	89.00000	-0.65092	88.600	41.192E-6	-0.035855	0.0	
-7.50000	-8.81250	89.00000	-0.68640	88.600	69.100E-6	-0.031503	0.0	
-7.50000	-7.62500	89.00000	-0.72088	88.600	115.37E-6	-0.023762	0.0	
-7.50000	-6.43750	89.00000	-0.75315	88.600	193.62E-6	-0.010634	0.0	
-7.50000	-5.25000	89.00000	-0.78171	88.600	326.86E-6	0.0096443	0.0	
-7.50000	-4.06250	89.00000	-0.80495	88.600	555.54E-6	0.041159	0.0	
-7.50000	-2.87500	89.00000	-0.82163	88.600	938.71E-6	0.087318	-1.0250E-6	
-7.50000	-1.68750	89.00000	-0.83208	88.600	0.0015378	0.15021	-1.7692E-6	
-7.50000	-0.50000	89.00000	-0.83978	88.600	0.0023823	0.22669	-2.6605E-6	
-7.50000	0.68750	89.00000	-0.85211	88.600	0.0032452	0.30578	-3.5928E-6	
-7.50000	1.87500	89.00000	-0.87826	88.600	0.0040054	0.37262	-4.3743E-6	
-7.50000	3.06250	89.00000	-0.92573	88.600	0.0045116	0.41649	-4.8867E-6	
-7.50000	4.25000	89.00000	-0.98966	88.600	0.0047635	0.43349	-5.0811E-6	
-7.50000	5.43750	89.00000	-1.0987	88.600	0.0047957	0.43328	-4.8001E-6	
-7.50000	6.62500	89.00000	-1.2264	88.600	0.0046166	0.38583	-4.4941E-6	
-7.50000	7.81250	89.00000	-1.3809	88.600	0.0041974	0.32082	-3.7098E-6	
-7.50000	9.00000	89.00000	-1.5598	88.600	0.0035111	0.22994	-2.6210E-6	
-7.50000	10.18750	89.00000	-1.7670	88.600	0.0026195	0.12026	-1.3195E-6	
-7.50000	11.37500	89.00000	-1.9634	88.600	0.0017070	0.0077073	0.0	
-7.50000	12.56250	89.00000	-2.1705	88.600	962.80E-6	-0.095702	1.2734E-6	
-7.50000	13.75000	89.00000	-2.3731	88.600	439.27E-6	-0.18265	3.3251E-6	
-7.50000	14.93750	89.00000	-2.5699	88.600	90.104E-6	-0.25332	3.1856E-6	
-7.50000	16.12500	89.00000	-2.7623	88.600	-148.93E-6	-0.31086	3.8965E-6	
-7.50000	17.31250	89.00000	-2.9527	88.600	-323.37E-6	-0.35855	4.4750E-6	
-7.50000	18.50000	89.00000	-3.1437	88.600	-455.13E-6	-0.39875	4.9695E-6	
-7.50000	19.68750	89.00000	-3.3384	88.600	-544.69E-6	-0.43276	5.3896E-6	
-7.50000	20.87500	89.00000	-3.5402	88.600	-675.04E-6	-0.46152	5.7482E-6	
-7.50000	22.06250	89.00000	-3.7539	88.600	-830.29E-6	-0.47756	6.0775E-6	
-7.50000	23.25000	89.00000	-3.9872	88.600	-1016.9E-6	-0.51825	6.4689E-6	
-7.50000	24.43750	89.00000	-4.2510	88.600	-1215.4E-6	-0.56943	7.1035E-6	
-7.50000	25.62500	89.00000	-4.5563	88.600	-1437.1E-6	-0.66164	8.2144E-6	
-7.50000	26.81250	89.00000	-4.9096	88.600	-1682.7E-6	-0.81132	9.9832E-6	
-7.50000	28.00000	89.00000	-5.3181	88.600	-2057.3E-6	-1.02620	12.485E-6	
-7.50000	29.18750	89.00000	-5.7880	88.600	-2569.3E-6	-1.3081	15.712E-6	
-7.50000	30.37500	89.00000	-6.3179	88.600	-3230.6E-6	-1.6568	19.608E-6	
-7.50000	31.56250	89.00000	-6.9653	88.600	-4056.9E-6	-2.0743	24.095E-6	
-7.50000	32.75000	89.00000	-7.7488	88.600	-5082.9E-6	-2.5752	29.130E-6	
-7.50000	33.93750	89.00000	-8.6859	88.600	-6355.3E-6	-3.2029	34.737E-6	
-7.50000	35.12500	89.00000	-9.7954	88.600	-7934.1E-6	-4.0442	40.773E-6	
-7.50000	36.31250	89.00000	-11.097	88.600	-9969.2E-6	-5.2436	46.100E-6	
-7.50000	37.50000	89.00000	-12.613	88.600	-12636.6E-6	-6.9787	46.923E-6	
-7.50000	38.68750	89.00000	-14.357	88.600	-16122.5E-6	-9.5269	39.050E-6	
-7.50000	39.87500	89.00000	-16.449	88.600	-20693.9E-6	-12.894	30.348E-6	
-7.50000	41.06250	89.00000	-18.917	88.600	-26694.7E-6	-17.211	30.038E-6	
-7.50000	42.25000	89.00000	-21.785	88.600	-34497.9E-6	-22.516	34.567E-6	
-7.50000	43.43750	89.00000	-25.087	88.600	-44672.2E-6	-29.850	39.798E-6	
-7.50000	44.62500	89.00000	-28.879	88.600	-58888.6E-6	-39.284	44.404E-6	
-7.50000	45.81250	89.00000	-34.215	88.600	-77849.2E-6	-50.975	48.257E-6	
-7.50000	47.00000	89.00000	-40.153	88.600	-10347.7E-6	-66.616	51.551E-6	
-7.50000	48.18750	89.00000	-46.754	88.600	-13883.9E-6	-86.899	54.542E-6	
-7.50000	49.37500	89.00000	-54.175	88.600	-18835.9E-6	-114.174	57.497E-6	
-7.50000	50.56250	89.00000	-62.500	88.600	-25632.6E-6	-153.478	60.704E-6	
-7.50000	51.75000	89.00000	-71.719	88.600	-34855.7E-6	-202.855	64.507E-6	
-7.50000	52.93750	89.00000	-81.875	88.600	-47164.6E-6	-276.374	69.327E-6	
-7.50000	54.12500	89.00000	-93.025	88.600	-62419.2E-6	-364.158	75.622E-6	
-7.50000	55.31250	89.00000	-105.21	88.600	-81700.6E-6	-479.049	83.376E-6	
-7.50000	56.50000	89.00000	-118.58	88.600	-106226.7E-6	-624.921	88.820E-6	
-7.50000	57.68750	89.00000	-133.19	88.600	-138518.1E-6	-814.56	62.245E-6	
-7.50000	58.87500	89.00000	-149.09	88.600	-181544.6E-6	-1054.6	-208.18E-6	
-7.50000	60.06250	89.00000	-166.34	88.600	-239006.6E-6	-1384.5	-0.001364E-6	
-7.50000	61.25000	89.00000	-185.00	88.600	-315163.6E-6	-1834.1	-0.002232E-6	
-7.50000	62.43750	89.00000	-205.12	88.600	-41478.6E-6	-2434.8	-0.002380E-6	
-7.50000	63.62500	89.00000	-226.75	88.600	-54463.6E-6	-3204.5	-0.002394E-6	
-7.50000	64.81250	89.00000	-250.00	88.600	-71278.6E-6	-4214.1	-0.002390E-6	
-7.50000	66.00000	89.00000	-275.81	88.600	-93744.6E-6	-5544.5	-0.002396E-6	
-7.50000	67.18750	89.00000	-303.25	88.600	-123700.6E-6	-7364.6	-0.002403E-6	
-7.50000	68.37500	89.00000	-332.37	88.600	-161986.6E-6	-9844.6	-0.002411E-6	
-7.50000	69.56250	89.00000	-363.12	88.600	-211492.6E-6	-13244.6	-0.002390E-6	
-7.50000	70.75000	89.00000	-395.54	88.600	-275998.6E-6	-17544.6	-0.002136E-6	
-7.50000	71.93750	89.00000	-439.69	88.600	-360604.6E-6	-23244.6	-0.001000E-6	
-7.50000	73.12500	89.00000	-496.54	88.600	-473210.6E-6	-30644.6	-92.197E-6	
-7.50000	74.31250	89.00000	-567.12	88.600	-614816.6E-6	-40144.6	62.137E-6	
-7.50000	75.50000	89.00000	-652.47	88.600	-796422.6E-6	-52444.6	67.983E-6	
-7.50000	76.68750	89.00000	-753.64	88.600	-1038028.6E-6	-69044.6	54.201E-6	
-7.50000	77.87500	89.00000	-871.69	88.600	-1372634.6E-6	-91844.6	42.000E-6	
-7.50000	79.06250	89.00000	-1007.58	88.600	-1829190.6E-6	-122444.6	32.573E-6	
-7.50000	80.25000	89.00000	-1162.25	88.600	-2446746.6E-6	-163444.6	25.547E-6	
-7.50000	81.43750	89.00000	-1336.74	88.600	-3274402.6E-6	-219444.6	-0.001364E-6	
-7.50000	82.62500	89.00000	-1541.00	88.600	-4372058.6E-6	-294444.6	-0.002390E-6	
-7.50000	83.81250	89.00000	-1776.07	88.600	-5809714.6E-6	-394444.6	-0.002396E-6	
-7.50000	85.00000	89.00000	-2041.90	88.600	-7647370.6E-6	-524444.6	-0.002403E-6	
-7.50000	86.18750	89.00000	-2338.54	88.600	-10075026.6E-6	-704444.6	-0.002411E-6	
-7.50000	87.37500	89.00000	-2666.03	88.600	-13302682.6E-6	-944444.6	-0.002390E-6	
-7.50000	88.56250	89.00000	-3024.32	88.600	-17680338.6E-6	-1264444.6	-0.002136E-6	
-7.50000	89.75000	89.00000	-3513.45	88.600	-23597994.6E-6	-1684444.6	-0.001000E-6	
-7.50000	90.93750	89.00000	-4044.48	88.600	-31455650.6E-6	-2244444.6	-92.197E-6	
-7.5								



SOUTHERN TESTING LABORATORIES

Kidderpore East Side CASE 5- Drained Movements

Table with columns: Job No. (J12093), Sheet No., Rev., Drg. Ref., Made by, Date, Checked.

Main data table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain).



SOUTHERN TESTING LABORATORIES

Kidderpore East Side
CASE 5- Drained Movements

Job No. **Sheet No.** **Rev.**

J12093

Dr. Ref.

Made by **Date** **Checked**

Name	Location		Z [Level] [mm]	Z [mm]	Stresses			Vert Strain [-]
	X [m]	Y [m]			Calc Level [moD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-3.75000	4.25000	89.00000	0.66715	88.600	1.0777	9.9413	-43.605E-6	
-3.75000	5.43750	89.00000	0.54088	88.600	1.0782	9.9424	-43.585E-6	
-3.75000	6.62500	89.00000	0.32805	88.600	1.0762	9.7940	-41.870E-6	
-3.75000	7.81250	89.00000	0.0018283	88.600	1.0672	9.3865	-37.438E-6	
-3.75000	9.00000	89.00000	-0.50902	88.600	1.0121	8.2569	-27.409E-6	
-3.75000	10.18750	89.00000	-1.3005	88.600	0.54909	6.8549	-19.580E-6	
-3.75000	11.37500	89.00000	-2.1088	88.600	0.071214	1.3880	-12.055E-6	
-3.75000	12.56250	89.00000	-2.6604	88.600	0.013556	0.21256	-1.6467E-6	
-3.75000	13.75000	89.00000	-3.0526	88.600	0.0039627	-0.23989	3.3086E-6	
-3.75000	14.93750	89.00000	-3.3637	88.600	0.0014280	-0.45722	5.8450E-6	
-3.75000	16.12500	89.00000	-3.6332	88.600	544.89E-6	-0.57842	7.2991E-6	
-3.75000	17.31250	89.00000	-3.8806	88.600	219.14E-6	-0.65010	8.1743E-6	
-3.75000	18.50000	89.00000	-4.1151	88.600	263.69E-6	-0.68444	8.6087E-6	
-3.75000	19.68750	89.00000	-4.3376	88.600	0.0010148	-0.66914	8.4732E-6	
-3.75000	20.87500	89.00000	-4.5379	88.600	0.0042541	-0.54829	7.2006E-6	
-3.75000	22.06250	89.00000	-4.6844	88.600	0.020250	-0.12940	-0.481E-6	
-3.75000	23.25000	89.00000	-4.7060	88.600	0.14540	1.3502	-5.9955E-6	
-3.75000	24.43750	89.00000	-4.6140	88.600	0.80438	5.1002	-3.4378E-6	
-3.75000	25.62500	89.00000	-4.8630	88.600	1.0239	6.7439	-7.5364E-6	
-3.75000	26.81250	89.00000	-5.5761	88.600	1.0220	6.3438	-2.6600E-6	
-3.75000	28.00000	89.00000	-6.6478	88.600	0.9462	5.1841	9.4573E-6	
-3.75000	29.18750	89.00000	-8.0985	88.600	0.93453	3.5158	26.244E-6	
-3.75000	30.37500	89.00000	-10.210	88.600	0.58191	-0.022702	44.098E-6	
-3.75000	31.56250	89.00000	-12.451	88.600	-0.031000	-4.6227	55.675E-6	
-3.75000	32.75000	89.00000	-13.590	88.600	-0.15527	-6.8835	74.688E-6	
-3.75000	33.93750	89.00000	-14.830	88.600	-0.28511	-8.1092	88.109E-6	
-3.75000	35.12500	89.00000	-13.443	88.600	-0.49273	-10.655	96.602E-6	
-3.75000	36.31250	89.00000	-13.975	88.600	-1.3031	-14.400	82.586E-6	
-3.75000	37.50000	89.00000	-15.044	88.600	-5.0515	-22.893	-93.061E-6	
-3.75000	38.68750	89.00000	-17.175	88.600	-20.845	-41.956	-0.0010430	
-3.75000	39.87500	89.00000	-18.868	88.600	-38.174	-62.008	-0.002051	
-3.75000	41.06250	89.00000	-19.380	88.600	-42.629	-71.357	-0.0023142	
-3.75000	42.25000	89.00000	-19.532	88.600	-43.567	-75.217	-0.0023364	
-3.75000	43.43750	89.00000	-19.572	88.600	-43.830	-77.083	-0.0023327	
-3.75000	44.62500	89.00000	-19.598	88.600	-43.924	-78.115	-0.0023269	
-3.75000	45.81250	89.00000	-19.621	88.600	-43.964	-78.745	-0.0023200	
-3.75000	47.00000	89.00000	-19.697	88.600	-43.984	-79.164	-0.0023182	
-3.75000	48.18750	89.00000	-19.834	88.600	-43.994	-79.466	-0.0023152	
-3.75000	49.37500	89.00000	-20.052	88.600	-44.000	-79.707	-0.0023126	
-3.75000	50.56250	89.00000	-20.363	88.600	-44.005	-79.925	-0.0023103	
-3.75000	51.75000	89.00000	-20.883	88.600	-44.010	-80.151	-0.0023078	
-3.75000	52.93750	89.00000	-21.596	88.600	-44.018	-80.422	-0.0023050	
-3.75000	54.12500	89.00000	-24.134	88.600	-44.034	-80.789	-0.0023016	
-3.75000	55.31250	89.00000	-26.186	88.600	-44.070	-81.333	-0.0022975	
-3.75000	56.50000	89.00000	-27.347	88.600	-44.156	-82.600	-0.0022931	
-3.75000	57.68750	89.00000	-28.324	88.600	-44.379	-83.644	-0.0022877	
-3.75000	58.87500	89.00000	-29.291	88.600	-44.959	-86.034	-0.0023054	
-3.75000	60.06250	89.00000	-30.249	88.600	-46.056	-89.344	-0.0023465	
-3.75000	61.25000	89.00000	-31.043	88.600	-47.021	-92.374	-0.0023812	
-3.75000	62.43750	89.00000	-31.506	88.600	-47.458	-94.231	-0.0023907	
-3.75000	63.62500	89.00000	-31.667	88.600	-47.613	-95.076	-0.0023918	
-3.75000	64.81250	89.00000	-31.536	88.600	-47.654	-95.180	-0.0023936	
-3.75000	66.00000	89.00000	-31.105	88.600	-47.627	-94.607	-0.0023987	
-3.75000	67.18750	89.00000	-30.326	88.600	-47.507	-93.179	-0.0024077	
-3.75000	68.37500	89.00000	-29.183	88.600	-47.153	-90.841	-0.0024165	
-3.75000	69.56250	89.00000	-27.129	88.600	-45.906	-84.517	-0.0023958	
-3.75000	70.75000	89.00000	-23.892	88.600	-40.392	-71.651	-0.0021421	
-3.75000	71.93750	89.00000	-18.134	88.600	-21.117	-46.559	-0.0010057	
-3.75000	73.12500	89.00000	-13.007	88.600	-5.2844	-23.999	-96.718E-6	
-3.75000	74.31250	89.00000	-11.045	88.600	-1.4345	-8.2126	88.212E-6	
-3.75000	75.50000	89.00000	-8.1156	88.600	-0.51325	-8.1598	63.750E-6	
-3.75000	76.68750	89.00000	-6.7467	88.600	-0.22299	-5.4352	51.415E-6	
-3.75000	77.87500	89.00000	-5.7203	88.600	-0.10992	-3.8228	39.695E-6	
-3.75000	79.06250	89.00000	-4.9207	88.600	-0.059062	-2.7992	30.679E-6	
-3.75000	80.25000	89.00000	-4.2806	88.600	-0.033773	-2.1965	23.995E-6	
-3.75000	81.43750	89.00000	-3.7574	88.600	-0.020247	-1.6389	19.041E-6	
-3.75000	82.62500	89.00000	-3.3228	88.600	-0.012599	-1.2971	15.328E-6	
-3.75000	83.81250	89.00000	-2.9568	88.600	-0.0080831	-1.0451	12.507E-6	
-3.75000	85.00000	89.00000	-2.6453	88.600	-0.0053197	-0.85529	10.332E-6	
-2.50000	-7.81250	89.00000	-0.70557	88.600	77.176E-6	-0.046669	0.0	
-2.50000	-8.81250	89.00000	-0.83784	88.600	141.68E-6	-0.041073	0.0	
-2.50000	-7.62500	89.00000	-0.88872	88.600	271.83E-6	-0.027843	0.0	
-2.50000	-6.43750	89.00000	-0.93395	88.600	559.29E-6	768.36E-6	0.0	
-2.50000	-5.25000	89.00000	-0.96501	88.600	0.0012795	0.062512	0.0	
-2.50000	-4.06250	89.00000	-0.94376	88.600	0.0034533	0.21373	-2.2964E-6	
-2.50000	-2.87500	89.00000	-0.88659	88.600	0.012308	0.57189	-6.2497E-6	
-2.50000	-1.68750	89.00000	-0.61560	88.600	0.075898	1.8267	-17.208E-6	
-2.50000	-0.50000	89.00000	0.29763	88.600	2.1437	10.307	32.072E-6	
-2.50000	0.68750	89.00000	3.1977	88.600	30.923	50.393	0.0016959	
-2.50000	1.87500	89.00000	3.9080	88.600	31.911	56.192	0.0016981	
-2.50000	3.06250	89.00000	4.0828	88.600	31.954	57.116	0.0016892	
-2.50000	4.25000	89.00000	4.0575	88.600	31.961	57.367	0.0016865	
-2.50000	5.43750	89.00000	3.9179	88.600	31.962	57.370	0.0016865	
-2.50000	6.62500	89.00000	3.6716	88.600	31.959	57.169	0.0016888	
-2.50000	7.81250	89.00000	2.2659	88.600	31.941	56.256	0.0016954	
-2.50000	9.00000	89.00000	2.5130	88.600	31.743	54.023	0.0017121	
-2.50000	10.18750	89.00000	0.20119	88.600	16.566	28.997	883.43E-6	
-2.50000	11.37500	89.00000	-2.2012	88.600	0.23669	2.8130	-17.479E-6	
-2.50000	12.56250	89.00000	-3.0023	88.600	0.024953	0.18797	0.0	
-2.50000	13.75000	89.00000	-3.4971	88.600	0.0061305	-0.50008	6.7369E-6	
-2.50000	14.93750	89.00000	-3.8256	88.600	0.002937	-0.77935	9.9524E-6	
-2.50000	16.12500	89.00000	-4.1176	88.600	0.0011384	-0.92144	11.648E-6	
-2.50000	17.31250	89.00000	-4.3819	88.600	762.13E-6	-1.0000	12.607E-6	
-2.50000	18.50000	89.00000	-4.6302	88.600	882.12E-6	-1.0321	13.018E-6	
-2.50000	19.68750	89.00000	-4.8618	88.600	0.002546	-0.96549	12.649E-6	
-2.50000	20.87500	89.00000	-5.0563	88.600	0.0076768	-0.79666	10.575E-6	
-2.50000	22.06250	89.00000	-5.1395	88.600	0.045369	0.010273	3.2807E-6	
-2.50000	23.25000	89.00000	-4.8314	88.600	0.82986	4.9050	0.0	
-2.50000	24.43750	89.00000	-2.5019	88.600	29.170	43.870	0.0016458	
-2.50000	25.62500	89.00000	-2.3908	88.600	21.807	52.161	0.0017402	
-2.50000	26.81250	89.00000	-3.5929	88.600	31.180	48.220	0.0017425	
-2.50000	28.00000	89.00000	-5.4148	88.600	30.264	42.046	0.0017510	
-2.50000	29.18750	89.00000	-7.6434	88.600	30.063	38.279	0.0017831	
-2.50000	30.37500	89.00000	-12.354	88.600	23.227	21.169	0.0014831	
-2.50000	31.56250	89.00000	-22.784	88.600	-1.4052	-14.705	78.736E-6	
-2.50000	32.75000	89.00000	-24.719	88.600	-1.8446	-19.435	105.00E-6	
-2.50000	33.93750	89.00000	-21.737	88.600	-1.9730	-21.622	122.77E-6	
-2.50000	35.12500	89.00000	-21.644	88.600	-2.2478	-24.018	132.15E-6	
-2.50000	36.31250	89.00000	-22.142	88.600	-3.1627	-28.067	114.08E-6	
-2.50000	37.50000	89.00000	-23.078	88.600	-4.1964	-36.591	82.566E-6	
-2.50000	38.68750	89.00000	-26.786	88.600	-22.963	-52.592	-0.0010689	
-2.50000	39.87500	89.00000	-22.473	88.600	-40.415	-70.057	-0.0021638	
-2.50000	41.06250	89.00000	-21.909	88.600	-45.204	-79.412	-0.0024070	
-2.50000	42.25000	89.00000	-21.725	88.600	-46.260	-83.499	-0.0024352	
-2.50000	43.43750	89.00000	-24.3750	88.600	-46.561	-85.619	-0.0024329	
-2.50000	44.62500	89.00000	-21.507	88.600	-46.669	-86.580	-0.0024273	
-2.50000	45.81250	89.00000</						



SOUTHERN TESTING LABORATORIES

Kidderpore East Side CASE 5- Drained Movements

Job No. J12093, Sheet No., Rev., Drg. Ref., Made by, Date, Checked

Main data table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain)



SOUTHERN TESTING LABORATORIES

Job No.

Sheet No.

Rev.

J12093

Dr. Ref.

Made by

Date

Checked

**Kidderpore East Side
CASE 5- Drained Movements**

Name	Location		Z [Level]	Z	Calc Level	Stresses		Vert Strain
X [m]	Y [m]	Z [Level]	Z [mm]	[moD]	Vert Stress	Sum Princ	[-]	
					[kN/m ²]	[kN/m ²]		
0.00000	50.56250	89.00000	-22.252	88.600	-47.303	-90.884	-0.0024210	
0.00000	51.75000	89.00000	-22.449	88.600	-47.297	-90.904	-0.0024203	
0.00000	52.93750	89.00000	-22.771	88.600	-47.286	-90.880	-0.0024198	
0.00000	54.12500	89.00000	-23.269	88.600	-47.269	-90.816	-0.0024194	
0.00000	55.31250	89.00000	-23.886	88.600	-47.244	-90.709	-0.0024188	
0.00000	56.50000	89.00000	-24.634	88.600	-47.208	-90.558	-0.0024180	
0.00000	57.68750	89.00000	-26.201	88.600	-47.159	-90.367	-0.0024167	
0.00000	58.87500	89.00000	-28.242	88.600	-47.097	-90.135	-0.0024150	
0.00000	60.06250	89.00000	-28.839	88.600	-47.029	-89.870	-0.0024131	
0.00000	61.25000	89.00000	-29.091	88.600	-46.963	-89.579	-0.0024118	
0.00000	62.43750	89.00000	-29.146	88.600	-46.908	-89.263	-0.0024117	
0.00000	63.62500	89.00000	-29.041	88.600	-46.870	-88.901	-0.0024133	
0.00000	64.81250	89.00000	-28.776	88.600	-46.845	-88.438	-0.0024172	
0.00000	66.00000	89.00000	-28.326	88.600	-46.818	-87.742	-0.0024240	
0.00000	67.18750	89.00000	-27.626	88.600	-46.745	-86.530	-0.0024337	
0.00000	68.37500	89.00000	-26.548	88.600	-46.469	-84.168	-0.0024425	
0.00000	69.56250	89.00000	-24.830	88.600	-45.336	-79.075	-0.0024211	
0.00000	70.75000	89.00000	-21.878	88.600	-39.947	-67.076	-0.0021660	
0.00000	71.93750	89.00000	-16.430	88.600	-20.797	-42.908	-0.0010274	
0.00000	73.12500	89.00000	-11.605	88.600	-5.0721	-21.216	-115.66E-6	
0.00000	74.31250	89.00000	-8.1250	88.600	-1.3004	-11.186	-62.458E-6	
0.00000	75.50000	89.00000	-7.2096	88.600	-0.43066	-6.6596	51.143E-6	
0.00000	76.68750	89.00000	-6.0237	88.600	-0.17179	-4.3435	41.571E-6	
0.00000	77.87500	89.00000	-5.1423	88.600	-0.077725	-3.0245	32.102E-6	
0.00000	79.06250	89.00000	-4.4567	88.600	-0.038433	-2.2104	24.844E-6	
0.00000	80.25000	89.00000	-4.0295	88.600	-0.020295	-1.6792	19.503E-6	
0.00000	81.43750	89.00000	-3.4534	88.600	-0.011271	-1.3085	15.571E-6	
0.00000	82.62500	89.00000	-3.0744	88.600	-0.0065131	-1.0456	12.630E-6	
0.00000	83.81250	89.00000	-2.7526	88.600	-0.0038857	-0.85169	10.395E-6	
0.00000	85.00000	89.00000	-2.4765	88.600	-0.0023790	-0.70497	8.6672E-6	
1.25000	-10.91250	89.00000	-0.91997	88.600	51.308E-6	-0.076771	0.0	
1.25000	-7.62500	89.00000	-1.0980	88.600	177.20E-6	-0.091922	1.1668E-6	
1.25000	-6.43750	89.00000	-1.2012	88.600	360.42E-6	-0.097688	1.2530E-6	
1.25000	-5.25000	89.00000	-1.3142	88.600	802.78E-6	-0.097622	1.2855E-6	
1.25000	-4.06250	89.00000	-1.4369	88.600	0.0020303	-0.083126	1.1945E-6	
1.25000	-2.87500	89.00000	-1.5716	88.600	0.0058627	-0.042385	0.0	
1.25000	-1.68750	89.00000	-1.7412	88.600	0.020564	-0.035484	1.9935E-6	
1.25000	-0.50000	89.00000	-2.1010	88.600	-0.17684	-2.2232	14.583E-6	
1.25000	0.68750	89.00000	-3.3371	88.600	-1.107	-22.751	-701.38E-6	
1.25000	1.87500	89.00000	-3.6944	88.600	-1.30	-23.899	-688.67E-6	
1.25000	3.06250	89.00000	-3.8732	88.600	-13.118	-23.862	-688.23E-6	
1.25000	4.25000	89.00000	-4.0501	88.600	-13.115	-23.842	-688.25E-6	
1.25000	5.43750	89.00000	-4.2564	88.600	-13.114	-23.893	-687.58E-6	
1.25000	6.62500	89.00000	-4.5139	88.600	-13.116	-24.041	-685.82E-6	
1.25000	7.81250	89.00000	-4.8488	88.600	-13.122	-24.774	-682.10E-6	
1.25000	9.00000	89.00000	-5.3096	88.600	-13.149	-25.130	-674.63E-6	
1.25000	10.18750	89.00000	-5.9201	88.600	-13.254	-26.693	-662.96E-6	
1.25000	11.37500	89.00000	-6.5428	88.600	-13.362	-28.277	-651.19E-6	
1.25000	12.56250	89.00000	-7.0368	88.600	-13.389	-29.061	-643.44E-6	
1.25000	13.75000	89.00000	-7.4259	88.600	-13.396	-29.427	-639.34E-6	
1.25000	14.93750	89.00000	-7.7565	88.600	-13.398	-29.622	-637.05E-6	
1.25000	16.12500	89.00000	-8.0588	88.600	-13.399	-29.740	-635.62E-6	
1.25000	17.31250	89.00000	-8.3511	88.600	-13.399	-29.819	-634.66E-6	
1.25000	18.50000	89.00000	-8.6346	88.600	-13.399	-29.831	-634.03E-6	
1.25000	19.68750	89.00000	-8.9456	88.600	-13.399	-29.884	-633.80E-6	
1.25000	20.87500	89.00000	-9.2550	88.600	-13.396	-29.831	-634.31E-6	
1.25000	22.06250	89.00000	-9.5660	88.600	-13.387	-29.603	-636.46E-6	
1.25000	23.25000	89.00000	-9.8723	88.600	-13.342	-28.922	-641.57E-6	
1.25000	24.43750	89.00000	-10.1652	88.600	-13.217	-27.625	-646.75E-6	
1.25000	25.62500	89.00000	-11.030	88.600	-13.173	-27.684	-644.42E-6	
1.25000	26.81250	89.00000	-12.384	88.600	-13.263	-29.527	-628.10E-6	
1.25000	28.00000	89.00000	-14.311	88.600	-13.398	-32.469	-601.35E-6	
1.25000	29.18750	89.00000	-17.032	88.600	-13.605	-36.795	-562.64E-6	
1.25000	30.37500	89.00000	-22.173	88.600	-21.173	-58.216	-465.48E-6	
1.25000	31.56250	89.00000	-30.459	88.600	-47.438	-100.68	-0.0023083	
1.25000	32.75000	89.00000	-33.379	88.600	-48.006	-107.19	-0.0022694	
1.25000	33.93750	89.00000	-34.873	88.600	-48.149	-109.86	-0.0022466	
1.25000	35.12500	89.00000	-35.635	88.600	-48.424	-112.27	-0.0022371	
1.25000	36.31250	89.00000	-36.925	88.600	-49.327	-115.91	-0.0022595	
1.25000	37.50000	89.00000	-35.843	88.600	-53.320	-123.08	-0.0024701	
1.25000	38.68750	89.00000	-34.954	88.600	-67.811	-130.74	-0.0034650	
1.25000	39.87500	89.00000	-27.153	88.600	-42.007	-82.959	-0.0021217	
1.25000	41.06250	89.00000	-24.499	88.600	-45.187	-81.969	-0.0023736	
1.25000	42.25000	89.00000	-46.235	88.600	-84.275	-84.275	-0.0024195	
1.25000	43.43750	89.00000	-22.466	88.600	-46.464	-85.594	-0.0024243	
1.25000	44.62500	89.00000	-21.950	88.600	-46.568	-86.379	-0.0024222	
1.25000	45.81250	89.00000	-21.596	88.600	-46.611	-86.847	-0.0024196	
1.25000	47.00000	89.00000	-21.361	88.600	-46.629	-87.128	-0.0024175	
1.25000	48.18750	89.00000	-21.220	88.600	-46.637	-87.200	-0.0024160	
1.25000	49.37500	89.00000	-21.162	88.600	-46.637	-87.367	-0.0024150	
1.25000	50.56250	89.00000	-21.181	88.600	-46.632	-87.375	-0.0024146	
1.25000	51.75000	89.00000	-21.279	88.600	-46.620	-87.316	-0.0024144	
1.25000	52.93750	89.00000	-21.463	88.600	-46.601	-87.187	-0.0024146	
1.25000	54.12500	89.00000	-21.743	88.600	-46.569	-86.974	-0.0024148	
1.25000	55.31250	89.00000	-22.139	88.600	-46.516	-86.656	-0.0024148	
1.25000	56.50000	89.00000	-22.753	88.600	-46.432	-86.209	-0.0024141	
1.25000	57.68750	89.00000	-24.276	88.600	-46.303	-85.612	-0.0024119	
1.25000	58.87500	89.00000	-26.294	88.600	-46.124	-84.869	-0.0024078	
1.25000	60.06250	89.00000	-26.822	88.600	-45.921	-84.002	-0.0024022	
1.25000	61.25000	89.00000	-26.984	88.600	-45.704	-83.203	-0.0023971	
1.25000	62.43750	89.00000	-26.961	88.600	-45.545	-82.466	-0.0023944	
1.25000	63.62500	89.00000	-26.810	88.600	-45.450	-81.855	-0.0023948	
1.25000	64.81250	89.00000	-26.543	88.600	-45.413	-81.330	-0.0023987	
1.25000	66.00000	89.00000	-26.129	88.600	-45.421	-80.772	-0.0024062	
1.25000	67.18750	89.00000	-25.543	88.600	-45.431	-79.910	-0.0024178	
1.25000	68.37500	89.00000	-24.626	88.600	-45.293	-78.120	-0.0024299	
1.25000	69.56250	89.00000	-23.127	88.600	-44.350	-73.824	-0.0024128	
1.25000	70.75000	89.00000	-20.442	88.600	-39.198	-62.835	-0.0021628	
1.25000	71.93750	89.00000	-15.282	88.600	-20.314	-39.795	-0.0010301	
1.25000	73.12500	89.00000	-10.727	88.600	-4.8116	-19.121	-122.34E-6	
1.25000	74.31250	89.00000	-8.2520	88.600	-1.1716	-9.8283	35.120E-6	
1.25000	75.50000	89.00000	-6.7104	88.600	-0.36636	-5.7758	44.895E-6	
1.25000	76.68750	89.00000	-5.6447	88.600	-0.13801	-3.7544	36.721E-6	
1.25000	77.87500	89.00000	-4.9257	88.600	-0.058968	-2.6210	28.450E-6	
1.25000	79.06250	89.00000	-4.2234	88.600	-0.027492	-1.9269	22.110E-6	
1.25000	80.25000	89.00000	-3.7204	88.600	-0.013642	-1.4725	17.450E-6	
1.25000	81.43750	89.00000	-3.3039	88.600	-0.0070826	-1.1592	14.013E-6	
1.25000	82.62500	89.00000	-2.9529	88.600	-0.0037975	-0.93433	11.439E-6	
1.25000	83.81250	89.00000	-2.6531	88.600	-0.0020799	-0.76750	9.4748E-6	
1.25000	85.00000	89.00000	-2.3942	88.600	-0.0011512	-0.64037	7.9491E-6	
2.50000	-10.00000	89.00000	-0.96635	88.600	30.736E-6	-0.090142	1.1335E-6	
2.50000	-8.81250	89.00000	-1.0643	88.600	51.930E-6	-0.10489	1.3201E-6	
2.50000	-7.62500	89.00000	-1.1769	88.600	90.659E-6	-0.12445	1.5685E-6	
2.50000	-6.43750	89.00000	-1.3073	88.600	168.79E-6	-0.15131	1.915E-6	
2.50000	-5.25000	89.00000	-1.4609	88.600	346.85E-6	-0.19017		



SOUTHERN TESTING LABORATORIES

Kidderpore East Side
CASE 5- Drained Movements

Job No. J12093	Sheet No.	Rev.
Dr. Ref.		
Made by	Date	Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [moD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	2.50000	25.62500	89.00000	-12.402	88.600	-13.387	-31.396	-613.98E-6
	2.50000	26.81250	89.00000	-13.632	88.600	-13.400	-32.285	-603.80E-6
	2.50000	28.00000	89.00000	-15.372	88.600	-13.435	-33.957	-585.43E-6
	2.50000	29.18750	89.00000	-18.014	88.600	-13.619	-37.811	-550.91E-6
	2.50000	30.37500	89.00000	-23.152	88.600	-21.206	-59.115	-854.86E-6
	2.50000	31.56250	89.00000	-31.462	88.600	-47.445	-101.56	-0.0022978
	2.50000	32.75000	89.00000	-34.404	88.600	-48.008	-108.02	-0.0022591
	2.50000	33.93750	89.00000	-35.892	88.600	-48.138	-110.58	-0.0022368
	2.50000	35.12500	89.00000	-36.584	88.600	-48.375	-112.73	-0.0022277
	2.50000	36.31250	89.00000	-36.702	88.600	-49.161	-115.81	-0.0022481
	2.50000	37.50000	89.00000	-36.307	88.600	-52.778	-127.92	-0.0020338
	2.50000	38.68750	89.00000	-34.936	88.600	-66.371	-127.79	-0.0033936
	2.50000	39.87500	89.00000	-26.522	88.600	-39.537	-77.365	-0.0020060
	2.50000	41.06250	89.00000	-23.358	88.600	-42.249	-74.494	-0.0022462
	2.50000	42.25000	89.00000	-21.758	88.600	-43.096	-75.866	-0.0022927
	2.50000	43.43750	89.00000	-19.402	88.600	-43.240	-76.793	-0.0020365
	2.50000	44.62500	89.00000	-20.112	88.600	-43.428	-77.352	-0.0022991
	2.50000	45.81250	89.00000	-19.655	88.600	-43.465	-77.689	-0.0022976
	2.50000	47.00000	89.00000	-19.339	88.600	-43.480	-77.886	-0.0022963
	2.50000	48.18750	89.00000	-19.129	88.600	-43.485	-77.984	-0.0022954
	2.50000	49.37500	89.00000	-19.002	88.600	-43.482	-78.002	-0.0022950
	2.50000	50.56250	89.00000	-18.946	88.600	-43.473	-77.944	-0.0022951
	2.50000	51.75000	89.00000	-18.955	88.600	-43.456	-77.804	-0.0022955
	2.50000	52.93750	89.00000	-19.027	88.600	-43.424	-77.562	-0.0022962
	2.50000	54.12500	89.00000	-19.170	88.600	-43.370	-77.186	-0.0022969
	2.50000	55.31250	89.00000	-19.413	88.600	-43.276	-76.233	-0.0022968
	2.50000	56.50000	89.00000	-19.876	88.600	-43.107	-75.804	-0.0022944
	2.50000	57.68750	89.00000	-21.248	88.600	-42.812	-74.650	-0.0022867
	2.50000	58.87500	89.00000	-23.114	88.600	-42.340	-73.130	-0.0022702
	2.50000	60.06250	89.00000	-23.489	88.600	-41.720	-71.363	-0.0022456
	2.50000	61.25000	89.00000	-23.813	88.600	-41.188	-69.641	-0.0022319
	2.50000	62.43750	89.00000	-23.385	88.600	-40.693	-68.247	-0.0022074
	2.50000	63.62500	89.00000	-23.177	88.600	-40.470	-67.283	-0.0022027
	2.50000	64.81250	89.00000	-22.915	88.600	-40.412	-66.713	-0.0022056
	2.50000	66.00000	89.00000	-22.591	88.600	-40.499	-66.426	-0.0022157
	2.50000	67.18750	89.00000	-22.160	88.600	-40.720	-66.205	-0.0022351
	2.50000	68.37500	89.00000	-21.512	88.600	-40.967	-65.494	-0.0022626
	2.50000	69.56250	89.00000	-20.385	88.600	-40.589	-62.777	-0.0022683
	2.50000	70.75000	89.00000	-18.181	88.600	-36.261	-54.017	-0.0020523
	2.50000	71.93750	89.00000	-13.590	88.600	-18.622	-33.869	-977.07E-6
	2.50000	73.12500	89.00000	-9.5469	88.600	-4.3498	-15.738	-114.96E-6
	2.50000	74.31250	89.00000	-7.4270	88.600	-0.93221	-7.9367	29.408E-6
	2.50000	75.50000	89.00000	-6.1154	88.600	-0.26897	-4.6582	38.203E-6
	2.50000	76.68750	89.00000	-5.1989	88.600	-0.092839	-3.0530	31.321E-6
	2.50000	77.87500	89.00000	-4.5076	88.600	-0.035763	-2.1575	24.394E-6
	2.50000	79.06250	89.00000	-3.9600	88.600	-0.014640	-1.6100	19.101E-6
	2.50000	80.25000	89.00000	-3.5118	88.600	-0.0061077	-1.2486	15.208E-6
	2.50000	81.43750	89.00000	-3.1364	88.600	-0.0024650	-0.99704	12.326E-6
	2.50000	82.62500	89.00000	-2.8170	88.600	-863.95E-6	-0.81439	10.154E-6
	2.50000	83.81250	89.00000	-2.5417	88.600	-159.44E-6	-0.67717	8.4480E-6
	2.50000	85.00000	89.00000	-2.3021	88.600	138.48E-6	-0.57135	7.1801E-6
	3.75000	-10.00000	89.00000	-1.0103	88.600	7.3095E-6	-0.10378	1.3029E-6
	3.75000	-8.81250	89.00000	-1.1219	88.600	3.5688E-6	-0.12625	1.5845E-6
	3.75000	-7.62500	89.00000	-1.2539	88.600	-13.855E-6	-0.15910	1.9954E-6
	3.75000	-6.43750	89.00000	-1.4028	88.600	-69.831E-6	-0.20975	2.6268E-6
	3.75000	-5.25000	89.00000	-1.6090	88.600	-233.57E-6	-0.29289	3.6578E-6
	3.75000	-4.06250	89.00000	-1.8597	88.600	-692.85E-6	-0.43983	5.4671E-6
	3.75000	-2.87500	89.00000	-2.1949	88.600	-0.0018355	-0.72492	8.9586E-6
	3.75000	-1.68750	89.00000	-2.6759	88.600	-0.0037968	-1.3933	17.198E-6
	3.75000	-0.50000	89.00000	-3.4800	88.600	-0.26704	-2.4695	42.469E-6
	3.75000	0.68750	89.00000	-5.2794	88.600	-13.327	-27.461	-658.84E-6
	3.75000	1.87500	89.00000	-5.9259	88.600	-13.397	-29.642	-636.71E-6
	3.75000	3.06250	89.00000	-6.2766	88.600	-13.393	-29.960	-632.46E-6
	3.75000	4.25000	89.00000	-6.5301	88.600	-13.392	-30.052	-631.20E-6
	3.75000	5.43750	89.00000	-6.6958	88.600	-13.391	-30.111	-630.42E-6
	3.75000	6.62500	89.00000	-6.9828	88.600	-13.392	-30.183	-629.51E-6
	3.75000	7.81250	89.00000	-7.2254	88.600	-13.392	-30.287	-628.27E-6
	3.75000	9.00000	89.00000	-7.4898	88.600	-13.394	-30.429	-626.58E-6
	3.75000	10.18750	89.00000	-7.7734	88.600	-13.395	-30.601	-624.57E-6
	3.75000	11.37500	89.00000	-8.0657	88.600	-13.397	-30.777	-622.50E-6
	3.75000	12.56250	89.00000	-8.3559	88.600	-13.399	-30.931	-620.67E-6
	3.75000	13.75000	89.00000	-8.6398	88.600	-13.400	-31.054	-619.19E-6
	3.75000	14.93750	89.00000	-8.9204	88.600	-13.400	-31.151	-618.01E-6
	3.75000	16.12500	89.00000	-9.2039	88.600	-13.400	-31.231	-617.04E-6
	3.75000	17.31250	89.00000	-9.4982	88.600	-13.401	-31.300	-616.19E-6
	3.75000	18.50000	89.00000	-9.8121	88.600	-13.401	-31.364	-615.39E-6
	3.75000	19.68750	89.00000	-10.156	88.600	-13.401	-31.428	-614.61E-6
	3.75000	20.87500	89.00000	-10.543	88.600	-13.401	-31.495	-613.77E-6
	3.75000	22.06250	89.00000	-10.994	88.600	-13.401	-31.575	-612.75E-6
	3.75000	23.25000	89.00000	-11.538	88.600	-13.401	-31.694	-611.25E-6
	3.75000	24.43750	89.00000	-12.224	88.600	-13.401	-31.910	-608.58E-6
	3.75000	25.62500	89.00000	-13.125	88.600	-13.404	-32.322	-603.64E-6
	3.75000	26.81250	89.00000	-14.337	88.600	-13.413	-33.085	-594.74E-6
	3.75000	28.00000	89.00000	-16.037	88.600	-13.442	-34.559	-578.37E-6
	3.75000	29.18750	89.00000	-18.651	88.600	-13.622	-38.275	-545.30E-6
	3.75000	30.37500	89.00000	-23.780	88.600	-21.207	-59.503	-850.03E-6
	3.75000	31.56250	89.00000	-32.085	88.600	-47.442	-101.88	-0.0022935
	3.75000	32.75000	89.00000	-35.012	88.600	-47.998	-108.26	-0.0022553
	3.75000	33.93750	89.00000	-36.452	88.600	-48.109	-110.64	-0.0022338
	3.75000	35.12500	89.00000	-37.033	88.600	-48.286	-112.41	-0.0022249
	3.75000	36.31250	89.00000	-36.916	88.600	-48.833	-114.59	-0.0022387
	3.75000	37.50000	89.00000	-36.013	88.600	-51.214	-118.22	-0.0023724
	3.75000	38.68750	89.00000	-33.583	88.600	-59.414	-117.91	-0.0029938
	3.75000	39.87500	89.00000	-23.986	88.600	-26.661	-60.808	-0.0012443
	3.75000	41.06250	89.00000	-20.248	88.600	-27.895	-54.911	-0.0014305
	3.75000	42.25000	89.00000	-18.165	88.600	-28.446	-55.071	-0.0014507
	3.75000	43.43750	89.00000	-16.964	88.600	-28.620	-55.454	-0.0014590
	3.75000	44.62500	89.00000	-16.169	88.600	-28.686	-55.740	-0.0014604
	3.75000	45.81250	89.00000	-15.619	88.600	-28.713	-55.925	-0.0014601
	3.75000	47.00000	89.00000	-15.232	88.600	-28.724	-56.074	-0.0014597
	3.75000	48.18750	89.00000	-14.959	88.600	-28.726	-56.055	-0.0014594
	3.75000	49.37500	89.00000	-14.771	88.600	-28.721	-56.011	-0.0014596
	3.75000	50.56250	89.00000	-14.649	88.600	-28.708	-55.887	-0.0014602
	3.75000	51.75000	89.00000	-14.580	88.600	-28.683	-55.663	-0.0014611
	3.75000	52.93750	89.00000	-14.556	88.600	-28.638	-55.303	-0.0014622
	3.75000	54.12500	89.00000	-14.578	88.600	-28.555	-54.747	-0.0014630
	3.75000	55.31250	89.00000	-14.668	88.600	-28.398	-53.895	-0.0014618
	3.75000	56.50000	89.00000	-14.932	88.600	-28.081	-52.587	-0.0014544
	3.75000	57.68750	89.00000	-16.050	88.600	-27.428	-50.594	-0.0014302
	3.75000	58.87500	89.00000	-17.641	88.600	-26.153	-47.705	-0.0013704
	3.75000	60.06250	89.00000	-17.784	88.600	-24.206	-44.090	-0.0012693
	3.75000	61.25000	89.00000	-17.617	88.600	-22.323	-40.588	-0.0011714
	3.75000	62.43750	89.00000	-17.336	88.600	-21.170		



SOUTHERN TESTING LABORATORIES

Job No.

Sheet No.

Rev.

J12093

Kidderpore East Side
CASE 5- Drained Movements

Drg. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
5.00000	0.68750	89.00000	-5.9277	88.600	-13.373	-28.766	-645.88E-6	
5.00000	1.87500	89.00000	-6.5099	88.600	-13.410	-30.464	-627.37E-6	
5.00000	3.06250	89.00000	-6.8348	88.600	-13.401	-30.636	-624.53E-6	
5.00000	4.25000	89.00000	-7.0789	88.600	-13.398	-30.684	-623.74E-6	
5.00000	5.43750	89.00000	-7.2954	88.600	-13.397	-30.720	-623.22E-6	
5.00000	6.62500	89.00000	-7.5062	88.600	-13.397	-30.766	-622.64E-6	
5.00000	7.81250	89.00000	-7.7220	88.600	-13.397	-30.827	-621.88E-6	
5.00000	9.00000	89.00000	-7.9480	88.600	-13.398	-30.904	-620.94E-6	
5.00000	10.18750	89.00000	-8.1849	88.600	-13.398	-30.994	-619.85E-6	
5.00000	11.37500	89.00000	-8.4304	88.600	-13.399	-31.089	-618.71E-6	
5.00000	12.56250	89.00000	-8.6839	88.600	-13.399	-31.179	-617.52E-6	
5.00000	13.75000	89.00000	-8.9378	88.600	-13.400	-31.260	-616.26E-6	
5.00000	14.93750	89.00000	-9.2010	88.600	-13.400	-31.333	-615.73E-6	
5.00000	16.12500	89.00000	-9.4756	88.600	-13.400	-31.401	-614.90E-6	
5.00000	17.31250	89.00000	-9.7679	88.600	-13.401	-31.466	-614.10E-6	
5.00000	18.50000	89.00000	-10.0685	88.600	-13.401	-31.533	-613.27E-6	
5.00000	19.68750	89.00000	-10.441	88.600	-13.401	-31.607	-612.36E-6	
5.00000	20.87500	89.00000	-10.846	88.600	-13.401	-31.695	-611.27E-6	
5.00000	22.06250	89.00000	-11.322	88.600	-13.402	-31.811	-609.85E-6	
5.00000	23.25000	89.00000	-11.898	88.600	-13.402	-31.977	-607.82E-6	
5.00000	24.43750	89.00000	-12.633	88.600	-13.404	-32.236	-604.69E-6	
5.00000	25.62500	89.00000	-13.530	88.600	-13.407	-32.659	-599.63E-6	
5.00000	26.81250	89.00000	-14.743	88.600	-13.416	-33.391	-591.08E-6	
5.00000	28.00000	89.00000	-16.432	88.600	-13.443	-34.808	-575.34E-6	
5.00000	29.18750	89.00000	-19.033	88.600	-13.621	-38.463	-542.91E-6	
5.00000	30.37500	89.00000	-24.205	88.600	-21.205	-59.634	-448.23E-6	
5.00000	31.56250	89.00000	-32.436	88.600	-47.437	-101.95	-0.0022923	
5.00000	32.75000	89.00000	-35.330	88.600	-47.985	-108.22	-0.0022549	
5.00000	33.93750	89.00000	-36.707	88.600	-48.075	-110.40	-0.0022343	
5.00000	35.12500	89.00000	-37.167	88.600	-48.187	-111.76	-0.0022256	
5.00000	36.31250	89.00000	-36.407	88.600	-48.462	-112.98	-0.0022310	
5.00000	37.50000	89.00000	-35.333	88.600	-49.280	-113.83	-0.0022819	
5.00000	38.68750	89.00000	-31.399	88.600	-49.622	-106.06	-0.0024052	
5.00000	39.87500	89.00000	-19.822	88.600	-18.1684	-40.857	-102.31E-6	
5.00000	41.06250	89.00000	-15.022	88.600	-7.4264	-30.971	-170.50E-6	
5.00000	42.25000	89.00000	-7.638	88.600	-7.6386	-29.524	-204.72E-6	
5.00000	43.43750	89.00000	-11.224	88.600	-7.7339	-29.259	-215.13E-6	
5.00000	44.62500	89.00000	-10.317	88.600	-7.7750	-29.246	-218.40E-6	
5.00000	45.81250	89.00000	-9.6949	88.600	-7.7932	-29.271	-219.45E-6	
5.00000	47.00000	89.00000	-9.2519	88.600	-7.7997	-29.275	-219.89E-6	
5.00000	48.18750	89.00000	-8.9297	88.600	-7.7986	-29.333	-220.33E-6	
5.00000	49.37500	89.00000	-8.6920	88.600	-7.7903	-29.129	-221.02E-6	
5.00000	50.56250	89.00000	-8.5143	88.600	-7.7727	-28.941	-222.05E-6	
5.00000	51.75000	89.00000	-8.3780	88.600	-7.7401	-28.637	-223.41E-6	
5.00000	52.93750	89.00000	-8.2678	88.600	-7.6797	-28.161	-224.84E-6	
5.00000	54.12500	89.00000	-8.1726	88.600	-7.5634	-26.419	-225.39E-6	
5.00000	55.31250	89.00000	-8.0928	88.600	-7.3243	-26.246	-222.10E-6	
5.00000	56.50000	89.00000	-8.0824	88.600	-6.7905	-24.345	-205.78E-6	
5.00000	57.68750	89.00000	-8.6704	88.600	-5.5028	-21.193	-148.38E-6	
5.00000	58.87500	89.00000	-9.6839	88.600	-2.4169	-16.005	-19.869E-6	
5.00000	60.06250	89.00000	-9.8615	88.600	3.1653	9.0538	351.94E-6	
5.00000	61.25000	89.00000	-9.7689	88.600	8.5252	-2.2644	670.29E-6	
5.00000	62.43750	89.00000	-9.2981	88.600	11.295	2.2895	821.65E-6	
5.00000	63.62500	89.00000	-8.8785	88.600	12.322	4.6585	869.26E-6	
5.00000	64.81250	89.00000	-8.4125	88.600	12.421	5.6111	873.05E-6	
5.00000	66.00000	89.00000	-8.5297	88.600	11.966	4.6199	843.00E-6	
5.00000	67.18750	89.00000	-8.6894	88.600	10.237	2.1352	743.94E-6	
5.00000	68.37500	89.00000	-9.1163	88.600	6.2052	-2.3289	496.42E-6	
5.00000	69.56250	89.00000	-9.5582	88.600	0.55751	-7.4070	134.92E-6	
5.00000	70.75000	89.00000	-2.6916	88.600	-2.6916	-9.7288	80.569E-6	
5.00000	71.93750	89.00000	-7.8595	88.600	-2.0634	-7.8682	-56.620E-6	
5.00000	73.12500	89.00000	-6.3539	88.600	-0.59192	-4.8160	15.867E-6	
5.00000	74.31250	89.00000	-5.4356	88.600	-0.10420	-2.9688	29.410E-6	
5.00000	75.50000	89.00000	-4.7519	88.600	0.0010274	-2.0151	25.364E-6	
5.00000	76.68750	89.00000	-4.2092	88.600	0.019544	-1.4648	20.028E-6	
5.00000	77.87500	89.00000	-3.7610	88.600	0.017523	-1.1580	15.850E-6	
5.00000	79.06250	89.00000	-3.3811	88.600	0.013491	-0.93799	12.786E-6	
5.00000	80.25000	89.00000	-3.0537	88.600	0.0098238	-0.77964	10.523E-6	
5.00000	81.43750	89.00000	-2.7683	88.600	0.0070513	-0.65991	8.8118E-6	
5.00000	82.62500	89.00000	-2.5172	88.600	0.0050655	-0.56088	7.4849E-6	
5.00000	83.81250	89.00000	-2.2950	88.600	0.0036652	-0.49062	6.4326E-6	
5.00000	85.00000	89.00000	-2.0972	88.600	0.0026782	-0.42875	5.5819E-6	
6.25000	-10.00000	89.00000	-1.0817	88.600	-34.068E-6	-0.12715	1.5929E-6	
6.25000	-8.81250	89.00000	-1.2168	88.600	-88.078E-6	-0.16380	2.0489E-6	
6.25000	-7.62500	89.00000	-1.2834	88.600	-0.22149	-0.22149	2.7748E-6	
6.25000	-6.43750	89.00000	-1.5953	88.600	-645.73E-6	-0.32364	4.0127E-6	
6.25000	-5.25000	89.00000	-1.8776	88.600	-0.0020011	-0.51569	6.3206E-6	
6.25000	-4.06250	89.00000	-2.2795	88.600	-0.0077023	-0.93664	11.174E-6	
6.25000	-2.87500	89.00000	-2.9133	88.600	-0.048203	-2.1379	23.198E-6	
6.25000	-1.68750	89.00000	-4.1123	88.600	-1.3035	-8.8921	33.532E-6	
6.25000	-0.50000	89.00000	-6.4729	88.600	-18.551	-36.638	936.99E-6	
6.25000	0.68750	89.00000	-6.7713	88.600	-13.935	-32.982	635.32E-6	
6.25000	1.87500	89.00000	-7.0013	88.600	-13.434	-31.335	618.28E-6	
6.25000	3.06250	89.00000	-7.2275	88.600	-13.406	-31.081	619.32E-6	
6.25000	4.25000	89.00000	-7.4362	88.600	-13.401	-31.028	619.62E-6	
6.25000	5.43750	89.00000	-7.6333	88.600	-13.399	-31.027	619.52E-6	
6.25000	6.62500	89.00000	-7.8257	88.600	-13.399	-31.048	619.23E-6	
6.25000	7.81250	89.00000	-8.0195	88.600	-13.399	-31.082	618.80E-6	
6.25000	9.00000	89.00000	-8.2188	88.600	-13.399	-31.127	618.24E-6	
6.25000	10.18750	89.00000	-8.4261	88.600	-13.399	-31.180	617.59E-6	
6.25000	11.37500	89.00000	-8.6426	88.600	-13.399	-31.237	616.88E-6	
6.25000	12.56250	89.00000	-8.8687	88.600	-13.400	-31.297	616.15E-6	
6.25000	13.75000	89.00000	-9.1054	88.600	-13.400	-31.357	615.42E-6	
6.25000	14.93750	89.00000	-9.3551	88.600	-13.400	-31.416	614.69E-6	
6.25000	16.12500	89.00000	-9.6216	88.600	-13.400	-31.475	613.96E-6	
6.25000	17.31250	89.00000	-9.9104	88.600	-13.400	-31.537	613.20E-6	
6.25000	18.50000	89.00000	-10.229	88.600	-13.401	-31.605	612.36E-6	
6.25000	19.68750	89.00000	-10.588	88.600	-13.401	-31.684	611.39E-6	
6.25000	20.87500	89.00000	-11.002	88.600	-13.401	-31.781	610.20E-6	
6.25000	22.06250	89.00000	-11.489	88.600	-13.402	-31.910	608.83E-6	
6.25000	23.25000	89.00000	-12.077	88.600	-13.403	-32.090	606.43E-6	
6.25000	24.43750	89.00000	-12.804	88.600	-13.404	-32.357	603.20E-6	
6.25000	25.62500	89.00000	-13.726	88.600	-13.408	-32.778	598.17E-6	
6.25000	26.81250	89.00000	-14.938	88.600	-13.416	-33.491	589.83E-6	
6.25000	28.00000	89.00000	-16.202	88.600	-13.442	-34.876	574.44E-6	
6.25000	29.18750	89.00000	-19.213	88.600	-13.620	-38.491	542.46E-6	
6.25000	30.37500	89.00000	-24.315	88.600	-21.202	-59.609	848.30E-6	
6.25000	31.56250	89.00000	-32.578	88.600	-47.430	-101.85	-0.0022930	
6.25000	32.75000	89.00000	-35.430	88.600	-47.972	-108.01	-0.0022565	
6.25000	33.93750	89.00000	-36.741	88.600	-48.045	-110.01	-0.0022669	
6.25000	35.12500	89.00000	-37.099	88.600	-48.108	-111.04	-0.0022287	
6.25000	36.31250	89.00000	-36.571	88.600	-48.220	-111.60	-0.0022302	
6.25000	37.50000	89.00000	-34.769	88.600	-48.416	-111.19	-0.0022501	
6.25000	38.68750	89.00000	-29.985	88.600	-47.651	-104.16	-0.0022807	
6.25000	39.87500	89.00000	-19.149	88.600	-19.794	56.500	-785.05E-6	
6.25000	41.06250	89.00000	-8.3727	88.600	-2.0492	-21.485	115.31E-6	
6.25000	42.25000	89.0000						

Job No.	Sheet No.	Rev.
J12093		
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Made by	Date	Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [moD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
6.25000	71.93750	89.00000	-5.1871	88.600	1.2479	0.46784	88.086E-6	
6.25000	73.12500	89.00000	-4.8776	88.600	0.45796	-0.59796	41.984E-6	
6.25000	74.31250	89.00000	-4.4790	88.600	0.21719	-0.81914	26.632E-6	
6.25000	75.50000	89.00000	-4.0842	88.600	0.11814	-0.81731	19.151E-6	
6.25000	76.68750	89.00000	-3.7186	88.600	0.068667	-0.76035	14.718E-6	
6.25000	77.87500	89.00000	-3.3871	88.600	0.041688	-0.69122	11.813E-6	
6.25000	79.06250	89.00000	-3.0885	88.600	0.026213	-0.62245	9.7845E-6	
6.25000	80.25000	89.00000	-2.8202	88.600	0.016989	-0.55817	8.2834E-6	
6.25000	81.43750	89.00000	-2.5789	88.600	0.011307	-0.49975	7.1225E-6	
6.25000	82.62500	89.00000	-2.3618	88.600	0.0077059	-0.44740	6.1945E-6	
6.25000	83.81250	89.00000	-2.1661	88.600	0.0053633	-0.40089	5.4344E-6	
6.25000	85.00000	89.00000	-1.9893	88.600	0.0038042	-0.35973	4.8005E-6	
7.50000	-10.00000	89.00000	-1.1048	88.600	-42.998E-6	-0.13438	1.6831E-6	
7.50000	-8.81250	89.00000	-1.2477	88.600	-111.09E-6	-0.17556	2.1947E-6	
7.50000	-7.62500	89.00000	-1.4259	88.600	-297.93E-6	-0.24300	3.0269E-6	
7.50000	-6.43750	89.00000	-1.6375	88.600	-588.53E-6	-0.36310	4.4917E-6	
7.50000	-5.25000	89.00000	-1.9720	88.600	-0.0028202	-0.60247	7.3479E-6	
7.50000	-4.06250	89.00000	-2.4409	88.600	-0.011850	-1.1682	13.768E-6	
7.50000	-2.87500	89.00000	-3.2378	88.600	-0.084762	-2.9970	31.226E-6	
7.50000	-1.68750	89.00000	-4.9825	88.600	-2.8006	-15.795	-12.655E-6	
7.50000	-0.50000	89.00000	-7.1351	88.600	-14.351	-73.506	-0.002386	
7.50000	0.68750	89.00000	-7.5310	88.600	-14.584	-37.439	-628.24E-6	
7.50000	1.87500	89.00000	-7.3729	88.600	-13.459	-32.087	-610.68E-6	
7.50000	3.06250	89.00000	-7.4886	88.600	-13.409	-31.382	-615.81E-6	
7.50000	4.25000	89.00000	-7.6551	88.600	-13.402	-31.223	-617.26E-6	
7.50000	5.43750	89.00000	-7.8985	88.600	-13.400	-31.184	-617.61E-6	
7.50000	6.62500	89.00000	-8.0008	88.600	-13.400	-31.182	-617.60E-6	
7.50000	7.81250	89.00000	-8.1734	88.600	-13.400	-31.195	-617.42E-6	
7.50000	9.00000	89.00000	-8.3498	88.600	-13.399	-31.218	-617.13E-6	
7.50000	10.18750	89.00000	-8.5338	88.600	-13.400	-31.249	-616.74E-6	
7.50000	11.37500	89.00000	-8.7284	88.600	-13.400	-31.286	-616.28E-6	
7.50000	12.56250	89.00000	-8.9357	88.600	-13.400	-31.330	-615.75E-6	
7.50000	13.75000	89.00000	-9.1575	88.600	-13.400	-31.377	-615.16E-6	
7.50000	14.93750	89.00000	-9.3962	88.600	-13.400	-31.428	-614.53E-6	
7.50000	16.12500	89.00000	-9.6551	88.600	-13.400	-31.483	-613.85E-6	
7.50000	17.31250	89.00000	-9.9392	88.600	-13.400	-31.542	-613.12E-6	
7.50000	18.50000	89.00000	-10.256	88.600	-13.401	-31.610	-612.29E-6	
7.50000	19.68750	89.00000	-10.614	88.600	-13.401	-31.690	-611.30E-6	
7.50000	20.87500	89.00000	-11.029	88.600	-13.401	-31.790	-610.08E-6	
7.50000	22.06250	89.00000	-11.518	88.600	-13.402	-31.932	-608.48E-6	
7.50000	23.25000	89.00000	-12.107	88.600	-13.403	-32.102	-606.27E-6	
7.50000	24.43750	89.00000	-12.833	88.600	-13.404	-32.367	-603.07E-6	
7.50000	25.62500	89.00000	-13.753	88.600	-13.407	-32.778	-598.16E-6	
7.50000	26.81250	89.00000	-14.960	88.600	-13.415	-33.472	-590.03E-6	
7.50000	28.00000	89.00000	-16.638	88.600	-13.441	-34.808	-574.97E-6	
7.50000	29.18750	89.00000	-19.222	88.600	-13.618	-38.002	-443.43E-6	
7.50000	30.37500	89.00000	-24.312	88.600	-21.198	-59.467	-849.84E-6	
7.50000	31.56250	89.00000	-32.551	88.600	-47.424	-101.63	-0.0022953	
7.50000	32.75000	89.00000	-35.359	88.600	-47.960	-107.69	-0.0022597	
7.50000	33.93750	89.00000	-36.181	88.600	-48.222	-109.52	-0.0022413	
7.50000	35.12500	89.00000	-36.874	88.600	-48.057	-110.33	-0.0022341	
7.50000	36.31250	89.00000	-36.270	88.600	-48.102	-110.51	-0.0022349	
7.50000	37.50000	89.00000	-34.470	88.600	-48.151	-109.81	-0.0022475	
7.50000	38.68750	89.00000	-30.047	88.600	-48.068	-106.28	-0.0022855	
7.50000	39.87500	89.00000	-17.096	88.600	-42.099	-83.712	-0.0021192	
7.50000	41.06250	89.00000	-9.0787	88.600	-1.2492	-19.170	146.51E-6	
7.50000	42.25000	89.00000	-6.2228	88.600	-0.60974	-11.922	103.69E-6	
7.50000	43.43750	89.00000	-4.6889	88.600	-0.59219	-10.356	85.364E-6	
7.50000	44.62500	89.00000	-3.7200	88.600	-0.59791	-9.8160	78.159E-6	
7.50000	45.81250	89.00000	-3.0511	88.600	-0.60148	-9.5648	74.802E-6	
7.50000	47.00000	89.00000	-2.5627	88.600	-0.60063	-9.4094	72.852E-6	
7.50000	48.18750	89.00000	-2.1911	88.600	-0.59459	-9.2519	71.331E-6	
7.50000	49.37500	89.00000	-1.8967	88.600	-0.58146	-9.0502	69.789E-6	
7.50000	50.56250	89.00000	-1.6506	88.600	-0.55692	-8.7619	68.019E-6	
7.50000	51.75000	89.00000	-1.4588	88.600	-0.51168	-8.3318	66.028E-6	
7.50000	52.93750	89.00000	-1.1947	88.600	-0.42526	-7.6723	64.259E-6	
7.50000	54.12500	89.00000	-0.91113	88.600	-0.24951	-6.6295	64.404E-6	
7.50000	55.31250	89.00000	-0.51107	88.600	0.13896	-4.9145	72.133E-6	
7.50000	56.50000	89.00000	0.10326	88.600	1.0869	-1.9607	106.44E-6	
7.50000	57.68750	89.00000	1.0685	88.600	3.6295	7.3361	230.88E-6	
7.50000	58.87500	89.00000	2.4022	88.600	10.377	12.711	621.83E-6	
7.50000	60.06250	89.00000	0.92525	88.600	23.505	26.464	0.0014377	
7.50000	61.25000	89.00000	0.83303	88.600	36.070	39.724	0.0022173	
7.50000	62.43750	89.00000	2.1833	88.600	42.110	48.067	0.002673	
7.50000	63.62500	89.00000	3.0787	88.600	44.158	52.007	0.0026721	
7.50000	64.81250	89.00000	3.4734	88.600	44.466	52.884	0.0026843	
7.50000	66.00000	89.00000	3.3596	88.600	43.407	51.000	0.0026282	
7.50000	67.18750	89.00000	2.5977	88.600	39.698	45.496	0.0024180	
7.50000	68.37500	89.00000	0.98235	88.600	30.257	35.040	0.0018384	
7.50000	69.56250	89.00000	-1.1585	88.600	16.091	21.487	941.89E-6	
7.50000	70.75000	89.00000	-2.7696	88.600	6.2805	10.776	337.64E-6	
7.50000	71.93750	89.00000	-3.5242	88.600	2.3026	4.8618	112.36E-6	
7.50000	73.12500	89.00000	-3.7288	88.600	0.91121	2.0400	43.008E-6	
7.50000	74.31250	89.00000	-3.6657	88.600	0.40350	0.73729	21.128E-6	
7.50000	75.50000	89.00000	-3.4875	88.600	0.19925	0.12925	3.311E-6	
7.50000	76.68750	89.00000	-3.2662	88.600	0.10605	-0.15759	9.9624E-6	
7.50000	77.87500	89.00000	-3.0348	88.600	0.060544	-0.28999	8.1974E-6	
7.50000	79.06250	89.00000	-2.8084	88.600	0.036402	-0.34490	7.0688E-6	
7.50000	80.25000	89.00000	-2.5937	88.600	0.022824	-0.35993	6.2351E-6	
7.50000	81.43750	89.00000	-2.3932	88.600	0.014817	-0.35437	5.5620E-6	
7.50000	82.62500	89.00000	-2.2080	88.600	0.0099049	-0.33835	4.9916E-6	
7.50000	83.81250	89.00000	-2.0375	88.600	0.0067902	-0.31755	4.4961E-6	
7.50000	85.00000	89.00000	-1.8810	88.600	0.0047580	-0.29502	4.0604E-6	
8.75000	-10.00000	89.00000	-1.1175	88.600	-38.322E-6	-0.13733	1.7204E-6	
8.75000	-8.81250	89.00000	-1.2642	88.600	-103.61E-6	-0.17998	2.2507E-6	
8.75000	-7.62500	89.00000	-1.4480	88.600	-290.20E-6	-0.25031	3.1192E-6	
8.75000	-6.43750	89.00000	-1.6875	88.600	-876.63E-6	-0.37723	4.6677E-6	
8.75000	-5.25000	89.00000	-2.0186	88.600	-0.0030326	-0.63594	7.7518E-6	
8.75000	-4.06250	89.00000	-2.5201	88.600	-0.013315	-1.2653	14.876E-6	
8.75000	-2.87500	89.00000	-3.2903	88.600	-0.09522	-3.3226	31.568E-6	
8.75000	-1.68750	89.00000	-5.2804	88.600	-2.8644	-16.862	-4.0732E-6	
8.75000	-0.50000	89.00000	-9.5384	88.600	-44.039	-75.220	-0.0023718	
8.75000	0.68750	89.00000	-7.8310	88.600	-14.633	-38.378	-620.13E-6	
8.75000	1.87500	89.00000	-7.5586	88.600	-13.467	-32.416	-607.15E-6	
8.75000	3.06250	89.00000	-7.6176	88.600	-13.411	-31.528	-614.12E-6	
8.75000	4.25000	89.00000	-7.7545	88.600	-13.403	-31.309	-616.22E-6	
8.75000	5.43750	89.00000	-7.9061	88.600	-13.401	-31.243	-616.90E-6	
8.75000	6.62500	89.00000	-8.0569	88.600	-13.400	-31.220	-617.13E-6	
8.75000	7.81250	89.00000	-8.2061	88.600	-13.400	-31.212	-617.20E-6	
8.75000	9.00000	89.00000	-8.3581	88.600	-13.399	-31.214	-617.17E-6	
8.75000	10.18750	89.00000	-8.5188	88.600	-13.399	-31.225	-617.03E-6	
8.75000	11.37500	89.00000	-8.6932	88.600	-13.399	-31.247	-616.75E-6	</



SOUTHERN TESTING LABORATORIES

Job No. **Sheet No.** **Rev.**

J12093

Dr. Ref.

Make by

Date

Checked

**Kidderpore East Side
CASE 5- Drained Movements**

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
8.75000	47.00000	89.00000	-15.964	88.600	-0.24173	-6.2485	60.210E-6	
8.75000	48.18750	89.00000	-15.594	88.600	-0.23417	-6.0543	58.342E-6	
8.75000	49.37500	89.00000	-15.295	88.600	-0.21971	-5.8226	56.523E-6	
8.75000	50.56250	89.00000	-15.041	88.600	-0.19350	-5.5057	54.521E-6	
8.75000	51.75000	89.00000	-14.810	88.600	-0.14542	-5.0433	52.337E-6	
8.75000	52.93750	89.00000	-14.568	88.600	-0.05225	-3.4400	60.453E-6	
8.75000	54.12500	89.00000	-14.259	88.600	0.13555	-3.2288	50.722E-6	
8.75000	55.31250	89.00000	-13.780	88.600	0.55584	-1.3943	59.347E-6	
8.75000	56.50000	89.00000	-12.971	88.600	1.5851	1.7824	96.982E-6	
8.75000	57.68750	89.00000	-11.570	88.600	4.3276	7.5008	231.71E-6	
8.75000	58.87500	89.00000	-9.1321	88.600	11.542	17.599	616.20E-6	
8.75000	60.06250	89.00000	-2.8899	88.600	25.410	32.349	0.0015072	
8.75000	61.25000	89.00000	1.8607	88.600	38.691	46.572	0.0023287	
8.75000	62.43750	89.00000	4.1315	88.600	45.151	55.553	0.0027024	
8.75000	63.62500	89.00000	5.3530	88.600	47.368	59.779	0.0028163	
8.75000	64.81250	89.00000	5.9970	88.600	47.701	60.955	0.0028302	
8.75000	66.00000	89.00000	5.7293	88.600	46.545	58.523	0.0027701	
8.75000	67.18750	89.00000	4.8484	88.600	42.543	52.417	0.0025453	
8.75000	68.37500	89.00000	3.0085	88.600	32.497	40.938	0.0019331	
8.75000	69.56250	89.00000	0.56444	88.600	17.520	26.071	991.97E-6	
8.75000	70.75000	89.00000	-1.7493	88.600	7.0490	14.592	612.70E-6	
8.75000	71.93750	89.00000	-2.4243	88.600	2.6874	7.1520	112.59E-6	
8.75000	73.12500	89.00000	-2.8832	88.600	1.0991	3.5704	37.948E-6	
8.75000	74.31250	89.00000	-3.0166	88.600	0.49413	1.7456	15.299E-6	
8.75000	75.50000	89.00000	-2.9834	88.600	0.24283	0.79921	8.2539E-6	
8.75000	76.68750	89.00000	-2.8084	88.600	0.12879	0.29756	9.9632E-6	
8.75000	77.87500	89.00000	-2.7158	88.600	0.07282	0.027820	5.1308E-6	
8.75000	79.06250	89.00000	-2.5490	88.600	0.043335	-0.11697	4.7306E-6	
8.75000	80.25000	89.00000	-2.3802	88.600	0.026942	-0.19246	4.4436E-6	
8.75000	81.43750	89.00000	-2.2159	88.600	0.017367	-0.22865	4.1768E-6	
8.75000	82.62500	89.00000	-2.0502	88.600	0.011543	-0.24282	3.9094E-6	
8.75000	83.81250	89.00000	-1.9118	88.600	0.0078762	-0.24296	3.6418E-6	
8.75000	85.00000	89.00000	-1.7741	88.600	0.0054978	-0.23630	3.3792E-6	
10.00000	-10.00000	89.00000	-1.1190	88.600	-18.159E-6	-0.13560	1.7002E-6	
10.00000	-8.81250	89.00000	-1.2652	88.600	-58.975E-6	-0.17616	2.2062E-6	
10.00000	-7.62500	89.00000	-1.4205	88.600	-184.61E-6	-0.24205	2.8202E-6	
10.00000	-6.43750	89.00000	-1.6836	88.600	-605.51E-6	-0.35931	4.4632E-6	
10.00000	-5.25000	89.00000	-2.0079	88.600	-0.0022669	-0.59648	7.3143E-6	
10.00000	-4.06250	89.00000	-2.4963	88.600	-0.010974	-1.1782	13.959E-6	
10.00000	-2.87500	89.00000	-3.3477	88.600	-0.087859	-3.1462	32.866E-6	
10.00000	-1.68750	89.00000	-5.2268	88.600	-2.8815	-16.604	6.3153E-6	
10.00000	-0.50000	89.00000	-9.4998	88.600	-44.027	-75.007	-0.0023736	
10.00000	0.68750	89.00000	-7.8174	88.600	-14.627	-38.276	-621.02E-6	
10.00000	1.87500	89.00000	-7.5581	88.600	-13.465	-32.382	-607.46E-6	
10.00000	3.06250	89.00000	-7.1517	88.600	-13.411	-31.557	-614.22E-6	
10.00000	4.25000	89.00000	-7.7432	88.600	-13.402	-31.298	-616.35E-6	
10.00000	5.43750	89.00000	-7.8765	88.600	-13.400	-31.219	-617.18E-6	
10.00000	6.62500	89.00000	-8.0021	88.600	-13.400	-31.174	-617.69E-6	
10.00000	7.81250	89.00000	-8.1208	88.600	-13.399	-31.136	-618.13E-6	
10.00000	9.00000	89.00000	-8.2394	88.600	-13.398	-31.100	-618.55E-6	
10.00000	10.18750	89.00000	-8.3717	88.600	-13.398	-31.085	-618.71E-6	
10.00000	11.37500	89.00000	-8.5239	88.600	-13.398	-31.090	-618.64E-6	
10.00000	12.56250	89.00000	-8.7010	88.600	-13.398	-31.119	-618.29E-6	
10.00000	13.75000	89.00000	-8.9023	88.600	-13.399	-31.164	-617.75E-6	
10.00000	14.93750	89.00000	-9.1262	88.600	-13.400	-31.222	-617.11E-6	
10.00000	16.12500	89.00000	-9.3729	88.600	-13.399	-31.273	-616.42E-6	
10.00000	17.31250	89.00000	-9.6457	88.600	-13.399	-31.334	-615.67E-6	
10.00000	18.50000	89.00000	-9.9507	88.600	-13.400	-31.401	-614.85E-6	
10.00000	19.68750	89.00000	-10.297	88.600	-13.400	-31.479	-613.89E-6	
10.00000	20.87500	89.00000	-10.6897	88.600	-13.400	-31.574	-612.70E-6	
10.00000	22.06250	89.00000	-11.168	88.600	-13.401	-31.697	-611.21E-6	
10.00000	23.25000	89.00000	-11.735	88.600	-13.402	-31.865	-609.17E-6	
10.00000	24.43750	89.00000	-12.435	88.600	-13.403	-32.106	-606.24E-6	
10.00000	25.62500	89.00000	-13.326	88.600	-13.406	-32.400	-601.76E-6	
10.00000	26.81250	89.00000	-14.508	88.600	-13.413	-33.119	-594.28E-6	
10.00000	28.00000	89.00000	-16.180	88.600	-13.438	-34.396	-580.14E-6	
10.00000	29.18750	89.00000	-18.799	88.600	-13.613	-37.862	-549.84E-6	
10.00000	30.37500	89.00000	-23.969	88.600	-21.191	-58.783	-857.86E-6	
10.00000	31.56250	89.00000	-32.258	88.600	-47.413	-100.76	-0.0023054	
10.00000	32.75000	89.00000	-44.375	88.600	-97.941	-205.55	-0.0022726	
10.00000	33.93750	89.00000	-59.947	88.600	-147.988	-310.00	-0.0022579	
10.00000	35.12500	89.00000	-81.815	88.600	-247.996	-440.24	-0.0022554	
10.00000	36.31250	89.00000	-109.901	88.600	-417.996	-707.85	-0.0022603	
10.00000	37.50000	89.00000	-143.317	88.600	-677.985	-1066.76	-0.0022733	
10.00000	38.68750	89.00000	-183.136	88.600	-1013.95	-1632.96	-0.0023060	
10.00000	39.87500	89.00000	-235.533	88.600	-1418.70	-2308.01	-0.0023150	
10.00000	41.06250	89.00000	-295.976	88.600	-2017.40	-3235.25	-0.0023456	
10.00000	42.25000	89.00000	-374.352	88.600	-2836.20	-4406.50	-0.0023966	
10.00000	43.43750	89.00000	-478.241	88.600	-3907.40	-5985.75	-0.0024666	
10.00000	44.62500	89.00000	-613.255	88.600	-5488.50	-8320.00	-0.0025576	
10.00000	45.81250	89.00000	-794.874	88.600	-7881.40	-11500.00	-0.0026726	
10.00000	47.00000	89.00000	-1038.828	88.600	-11095.1	-16040.00	-0.0028156	
10.00000	48.18750	89.00000	-1359.073	88.600	-15116.0	-21300.00	-0.0029886	
10.00000	49.37500	89.00000	-1778.784	88.600	-20262.0	-28800.00	-0.0032046	
10.00000	50.56250	89.00000	-2334.542	88.600	-27794.0	-39000.00	-0.0034786	
10.00000	51.75000	89.00000	-3083.336	88.600	-37720.0	-51000.00	-0.0038156	
10.00000	52.93750	89.00000	-4073.153	88.600	-54821.0	-74000.00	-0.0042206	
10.00000	54.12500	89.00000	-5453.000	88.600	-75573.0	-103000.00	-0.0047006	
10.00000	55.31250	89.00000	-7373.877	88.600	-103826.0	-143000.00	-0.0052606	
10.00000	56.50000	89.00000	-10000.000	88.600	-141972.0	-198000.00	-0.0059106	
10.00000	57.68750	89.00000	-13511.000	88.600	-186409.0	-265000.00	-0.0066606	
10.00000	58.87500	89.00000	-18200.000	88.600	-254419.0	-360000.00	-0.0075106	
10.00000	60.06250	89.00000	-24475.000	88.600	-336029.0	-480000.00	-0.0084606	
10.00000	61.25000	89.00000	-32750.000	88.600	-447839.0	-630000.00	-0.0095106	
10.00000	62.43750	89.00000	-43750.000	88.600	-606649.0	-830000.00	-0.0106606	
10.00000	63.62500	89.00000	-58000.000	88.600	-828459.0	-1100000.00	-0.0119106	
10.00000	64.81250	89.00000	-76250.000	88.600	-1131269.0	-1500000.00	-0.0132606	
10.00000	66.00000	89.00000	-100000.000	88.600	-1534079.0	-2000000.00	-0.0147106	
10.00000	67.18750	89.00000	-131250.000	88.600	-2078889.0	-2700000.00	-0.0162606	
10.00000	68.37500	89.00000	-173750.000	88.600	-2866699.0	-3700000.00	-0.0179106	
10.00000	69.56250	89.00000	-231250.000	88.600	-3978509.0	-5000000.00	-0.0196606	
10.00000	70.75000	89.00000	-308750.000	88.600	-5484319.0	-6700000.00	-0.0215106	
10.00000	71.93750	89.00000	-413750.000	88.600	-7554129.0	-9000000.00	-0.0234606	
10.00000	73.12500	89.00000	-553750.000	88.600	-10459939.0	-12000000.00	-0.0255106	
10.00000	74.31250	89.00000	-736250.000	88.600	-14481749.0	-16000000.00	-0.0276606	
10.00000	75.50000	89.00000	-976250.000	88.600	-19999559.0	-21000000.00	-0.0299106	
10.00000	76.68750	89.00000	-1301250.000	88.600	-27717369.0	-28000000.00	-0.0322606	
10.00000	77.87500	89.00000	-1741250.000	88.600	-38435179.0	-38000000.00	-0.0348106	
10.00000	79.06250	89.						



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore East Side CASE 5- Drained Movements

Dr. Ref.

Made by Date Checked

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 100 rows of data.



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore East Side CASE 5- Drained Movements

Dr. Ref.

Made by

Date

Checked

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains numerical data for various points.



SOUTHERN TESTING LABORATORIES

Job No. J12093	Sheet No. 	Rev.
Drg. Ref. 		
Made by 	Date 	Checked

Kidderpore East Side
CASE 5- Drained Movements

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
15.00000	68.37500	89.00000	-0.19948	88.600	4.0292	11.378	160.58E-6	
15.00000	69.56250	89.00000	-0.62690	88.600	2.6305	8.5554	90.696E-6	
15.00000	70.75000	89.00000	-1.0379	88.600	1.4753	5.9648	36.232E-6	
15.00000	71.93750	89.00000	-1.3484	88.600	0.78398	4.0047	8.7732E-6	
15.00000	73.12500	89.00000	-1.5496	88.600	0.42324	2.6546	-1.4452E-6	
15.00000	74.31250	89.00000	-1.7631	88.600	0.23791	1.7519	-4.0653E-6	
15.00000	75.50000	89.00000	-1.7129	88.600	0.13978	1.1500	-3.9062E-6	
15.00000	76.68750	89.00000	-1.7183	88.600	0.085432	0.74600	-2.9289E-6	
15.00000	77.87500	89.00000	-1.6934	88.600	0.054063	0.47278	-1.8622E-6	
15.00000	79.06250	89.00000	-1.6482	88.600	0.035261	0.28674	0.0	
15.00000	80.25000	89.00000	-1.5900	88.600	0.023611	0.15950	0.0	
15.00000	81.43750	89.00000	-1.5237	88.600	0.016181	0.072351	0.0	
15.00000	82.62500	89.00000	-1.4530	88.600	0.011318	0.012797	0.0	
15.00000	83.81250	89.00000	-1.3804	88.600	0.0080632	-0.027601	0.0	
15.00000	85.00000	89.00000	-1.3077	88.600	0.0058393	-0.054612	1.1250E-6	
16.25000	-10.00000	89.00000	-0.99563	88.600	148.049E-6	-0.089206	1.1815E-6	
16.25000	-8.81250	89.00000	-1.0990	88.600	325.98E-6	-0.094791	1.2140E-6	
16.25000	-7.62500	89.00000	-1.2147	88.600	793.59E-6	-0.093247	1.2299E-6	
16.25000	-6.43750	89.00000	-1.3413	88.600	0.0022426	-0.064023	0.0	
16.25000	-5.25000	89.00000	-1.4696	88.600	0.0079610	0.061310	0.0	
16.25000	-4.06250	89.00000	-1.5672	88.600	0.042590	0.58985	-4.1951E-6	
16.25000	-2.87500	89.00000	-1.5090	88.600	0.61860	3.9371	-2.8304E-6	
16.25000	-1.68750	89.00000	-0.26440	88.600	26.133	32.354	0.0015616	
16.25000	-0.50000	89.00000	-4.1044	88.600	-12.236	-20.762	-660.72E-6	
16.25000	0.68750	89.00000	-5.4329	88.600	-13.349	-28.629	-645.81E-6	
16.25000	1.87500	89.00000	-6.3750	88.600	-13.993	-29.837	-633.72E-6	
16.25000	3.06250	89.00000	-6.1657	88.600	-13.392	-29.917	-632.86E-6	
16.25000	4.25000	89.00000	-6.1279	88.600	-13.377	-29.465	-637.43E-6	
16.25000	5.43750	89.00000	-5.9179	88.600	-13.349	-28.597	-646.19E-6	
16.25000	6.62500	89.00000	-5.5213	88.600	-13.287	-27.087	-660.44E-6	
16.25000	7.81250	89.00000	-4.9929	88.600	-13.099	-23.892	-686.40E-6	
16.25000	9.00000	89.00000	-3.1186	88.600	-8.8378	-6.5858	-582.77E-6	
16.25000	10.18750	89.00000	0.83935	88.600	33.286	55.195	0.0018136	
16.25000	11.37500	89.00000	-0.20852	88.600	23.005	38.797	0.0012452	
16.25000	12.56250	89.00000	-2.8115	88.600	0.51657	4.5117	-17.720E-6	
16.25000	13.75000	89.00000	-3.8621	88.600	0.16629	1.1052	-1.3494E-6	
16.25000	14.93750	89.00000	-3.9201	88.600	0.14025	0.37298	5.8791E-6	
16.25000	16.12500	89.00000	-4.2060	88.600	0.13558	0.11073	8.8188E-6	
16.25000	17.31250	89.00000	-4.4614	88.600	0.13427	-0.019727	10.357E-6	
16.25000	18.50000	89.00000	-4.7149	88.600	0.13376	-0.10471	11.385E-6	
16.25000	19.68750	89.00000	-4.9820	88.600	-0.13347	-0.174207	12.236E-6	
16.25000	20.87500	89.00000	-5.2742	88.600	0.13324	-0.24214	13.071E-6	
16.25000	22.06250	89.00000	-5.6024	88.600	0.13299	-0.31714	13.993E-6	
16.25000	23.25000	89.00000	-5.9796	88.600	0.13265	-0.40764	15.103E-6	
16.25000	24.43750	89.00000	-6.4230	88.600	0.13212	-0.52481	16.533E-6	
16.25000	25.62500	89.00000	-6.9880	88.600	0.13115	-0.68717	18.497E-6	
16.25000	26.81250	89.00000	-7.6241	88.600	0.12904	-0.93060	21.393E-6	
16.25000	28.00000	89.00000	-8.4887	88.600	0.12327	-1.3349	26.032E-6	
16.25000	29.18750	89.00000	-9.6634	88.600	0.10183	-2.0995	34.014E-6	
16.25000	30.37500	89.00000	-11.231	88.600	0.012936	-3.1123	46.257E-6	
16.25000	31.56250	89.00000	-12.770	88.600	-0.10985	-5.3291	58.602E-6	
16.25000	32.75000	89.00000	-13.595	88.600	-0.14451	-6.0983	65.645E-6	
16.25000	33.93750	89.00000	-13.573	88.600	-0.14153	-6.0393	65.129E-6	
16.25000	35.12500	89.00000	-12.727	88.600	-0.10246	-5.1796	57.282E-6	
16.25000	36.31250	89.00000	-11.250	88.600	-0.045859	-3.9612	46.256E-6	
16.25000	37.50000	89.00000	-10.495	88.600	-0.023218	-3.1661	37.982E-6	
16.25000	38.68750	89.00000	-9.6778	88.600	-0.016473	-2.6943	32.569E-6	
16.25000	39.87500	89.00000	-9.0844	88.600	-0.013116	-2.3384	28.356E-6	
16.25000	41.06250	89.00000	-8.5909	88.600	-0.010473	-2.0329	24.722E-6	
16.25000	42.25000	89.00000	-8.2100	88.600	-0.0082972	-1.7777	21.683E-6	
16.25000	43.43750	89.00000	-7.8077	88.600	-0.0064330	-1.5747	19.276E-6	
16.25000	44.62500	89.00000	-7.4933	88.600	-0.0044854	-1.4120	17.381E-6	
16.25000	45.81250	89.00000	-7.2178	88.600	-0.0019989	-1.2726	15.818E-6	
16.25000	47.00000	89.00000	-6.9737	88.600	0.0015235	-1.1400	14.421E-6	
16.25000	48.18750	89.00000	-6.7551	88.600	0.0067248	-0.99589	13.235E-6	
16.25000	49.37500	89.00000	-6.5572	88.600	0.014566	-0.83725	11.603E-6	
16.25000	50.56250	89.00000	-6.3767	88.600	0.026597	-0.63729	9.9996E-6	
16.25000	51.75000	89.00000	-6.2111	88.600	0.045429	-0.38104	8.2020E-6	
16.25000	52.93750	89.00000	-6.0533	88.600	0.075591	-0.044097	6.2447E-6	
16.25000	54.12500	89.00000	-5.9050	88.600	0.12508	0.10629	4.3191E-6	
16.25000	55.31250	89.00000	-5.6344	88.600	0.20801	1.0135	2.9442E-6	
16.25000	56.50000	89.00000	-5.2613	88.600	0.34821	1.8300	3.2525E-6	
16.25000	57.68750	89.00000	-4.7294	88.600	0.57968	2.9039	7.2056E-6	
16.25000	58.87500	89.00000	-4.0443	88.600	0.92970	4.2357	16.846E-6	
16.25000	60.06250	89.00000	-3.2612	88.600	1.3706	5.7270	31.499E-6	
16.25000	61.25000	89.00000	-2.4882	88.600	1.7965	7.1057	46.093E-6	
16.25000	62.43750	89.00000	-1.8288	88.600	2.1049	8.1798	55.835E-6	
16.25000	63.62500	89.00000	-1.3323	88.600	2.2679	8.8128	60.164E-6	
16.25000	64.81250	89.00000	-1.0058	88.600	2.2983	8.9717	60.458E-6	
16.25000	66.00000	89.00000	-0.8047	88.600	2.2009	8.6537	57.114E-6	
16.25000	67.18750	89.00000	-0.82076	88.600	1.9628	7.8718	49.002E-6	
16.25000	68.37500	89.00000	-0.91892	88.600	1.5851	6.6984	35.287E-6	
16.25000	69.56250	89.00000	-1.0875	88.600	1.1364	5.3191	18.817E-6	
16.25000	70.75000	89.00000	-1.2689	88.600	0.73553	3.9848	5.3755E-6	
16.25000	71.93750	89.00000	-1.4297	88.600	0.45030	2.8709	-2.120E-6	
16.25000	73.12500	89.00000	-1.5265	88.600	0.27237	2.0217	-4.8621E-6	
16.25000	74.31250	89.00000	-1.5871	88.600	0.16684	1.4034	-5.0487E-6	
16.25000	75.50000	89.00000	-1.6103	88.600	0.10453	0.96240	-4.2020E-6	
16.25000	76.68750	89.00000	-1.6046	88.600	0.067150	0.64925	-3.0913E-6	
16.25000	77.87500	89.00000	-1.5777	88.600	0.044200	0.42770	-2.047E-6	
16.25000	79.06250	89.00000	-1.5357	88.600	0.029760	0.27124	-1.1630E-6	
16.25000	80.25000	89.00000	-1.4834	88.600	0.020456	0.16033	0.0	
16.25000	81.43750	89.00000	-1.4244	88.600	0.014328	0.081919	0.0	
16.25000	82.62500	89.00000	-1.3616	88.600	0.010209	0.026666	0.0	
16.25000	83.81250	89.00000	-1.2661	88.600	0.0073908	-0.012005	0.0	
16.25000	85.00000	89.00000	-1.2316	88.600	0.0054233	-0.038758	0.0	
17.50000	-10.00000	89.00000	-0.95727	88.600	151.48E-6	-0.079849	1.0134E-6	
17.50000	-8.81250	89.00000	-1.0513	88.600	326.76E-6	-0.083142	1.0679E-6	
17.50000	-7.62500	89.00000	-1.1550	88.600	781.55E-6	-0.077108	1.0264E-6	
17.50000	-6.43750	89.00000	-1.2651	88.600	0.021742	-0.04211	0.0	
17.50000	-5.25000	89.00000	-1.3752	88.600	0.0076684	0.087478	0.0	
17.50000	-4.06250	89.00000	-1.4494	88.600	0.041477	0.61371	-4.5783E-6	
17.50000	-2.87500	89.00000	-1.3629	88.600	0.61503	3.9436	-3.1796E-6	
17.50000	-1.68750	89.00000	-0.081162	88.600	26.124	32.330	0.0015612	
17.50000	-0.50000	89.00000	-0.8799	88.600	-12.262	-20.879	-661.24E-6	
17.50000	0.68750	89.00000	-5.1484	88.600	-13.405	-28.853	-647.26E-6	
17.50000	1.87500	89.00000	-5.5612	88.600	-13.429	-29.644	-639.10E-6	
17.50000	3.06250	89.00000	-5.5304	88.600	-13.360	-28.716	-645.57E-6	
17.50000	4.25000	89.00000	-5.1781	88.600	-13.078	-26.104	-657.12E-6	
17.50000	5.43750	89.00000	-4.6122	88.600	-12.697	-22.507	-673.56E-6	
17.50000	6.62500	89.00000	-3.5333	88.600	-8.1597	-10.278	-485.39E-6	
17.50000	7.81250	89.0000						



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Kidderpore East Side CASE 5- Drained Movements

Dr. Ref.

Made by Date Checked

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 100 rows of data.



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.**J12093**

Dr. Ref.

Made by

Date

Checked

Kidderpore East Side
CASE 5- Drained Movements

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
20.00000	18.50000	89.00000	-3.4355	88.600	955.43E-6	-0.36093	4.6011E-6	
20.00000	19.68750	89.00000	-3.6309	88.600	777.28E-6	-0.40900	5.1909E-6	
20.00000	20.87500	89.00000	-3.8365	88.600	644.88E-6	-0.45329	5.7368E-6	
20.00000	22.06250	89.00000	-4.0565	88.600	520.72E-6	-0.49812	6.2899E-6	
20.00000	23.25000	89.00000	-4.2941	88.600	382.07E-6	-0.54655	6.8872E-6	
20.00000	24.43750	89.00000	-4.5520	88.600	239.08E-6	-0.60214	7.5592E-6	
20.00000	25.62500	89.00000	-4.8315	88.600	114.43E-6	-0.66424	8.3337E-6	
20.00000	26.81250	89.00000	-5.1317	88.600	-338.93E-6	-0.73779	9.2328E-6	
20.00000	28.00000	89.00000	-5.4470	88.600	-775.40E-6	-0.82251	10.263E-6	
20.00000	29.18750	89.00000	-5.7644	88.600	-0.0013450	-0.91608	11.394E-6	
20.00000	30.37500	89.00000	-6.0630	88.600	-0.0020043	-1.01310	12.532E-6	
20.00000	31.56250	89.00000	-6.3064	88.600	-0.0026321	-1.0946	13.537E-6	
20.00000	32.75000	89.00000	-6.4714	88.600	-0.0030849	-1.1532	14.239E-6	
20.00000	33.93750	89.00000	-6.5391	88.600	-0.0032830	-1.1789	14.546E-6	
20.00000	35.12500	89.00000	-6.5117	88.600	-0.0032388	-1.1717	14.459E-6	
20.00000	36.31250	89.00000	-6.4079	88.600	-0.0030302	-1.1391	14.065E-6	
20.00000	37.50000	89.00000	-6.2541	88.600	-0.0027430	-1.0911	13.485E-6	
20.00000	38.68750	89.00000	-6.0739	88.600	-0.0024192	-1.0355	12.812E-6	
20.00000	39.87500	89.00000	-5.8838	88.600	-0.0020511	-0.97682	12.103E-6	
20.00000	41.06250	89.00000	-5.6933	88.600	-0.0016039	-0.91702	11.387E-6	
20.00000	42.25000	89.00000	-5.5074	88.600	-0.0010306	-0.85690	10.675E-6	
20.00000	43.43750	89.00000	-5.3286	88.600	-0.272.53E-6	-0.79640	9.9733E-6	
20.00000	44.62500	89.00000	-5.1575	88.600	747.86E-6	-0.73459	9.2744E-6	
20.00000	45.81250	89.00000	-4.9939	88.600	0.0021348	-0.66965	8.5639E-6	
20.00000	47.00000	89.00000	-4.8369	88.600	0.0040302	-0.59905	7.8208E-6	
20.00000	48.18750	89.00000	-4.6868	88.600	0.0062642	-0.51969	7.0205E-6	
20.00000	49.37500	89.00000	-4.5355	88.600	0.010196	-0.42798	6.1382E-6	
20.00000	50.56250	89.00000	-4.3860	88.600	0.015101	-0.31991	5.1514E-6	
20.00000	51.75000	89.00000	-4.2328	88.600	0.021840	-0.19118	4.0435E-6	
20.00000	52.93750	89.00000	-4.0712	88.600	0.031068	-0.037375	2.8082E-6	
20.00000	54.12500	89.00000	-3.9398	88.600	0.043988	0.14853	1.4555E-6	
20.00000	55.31250	89.00000	-3.7015	88.600	0.060270	0.36025	0.0	
20.00000	56.50000	89.00000	-3.4850	88.600	0.081823	0.60658	-1.4511E-6	
20.00000	57.68750	89.00000	-3.2466	88.600	0.10834	0.87940	-2.8782E-6	
20.00000	58.87500	89.00000	-2.9912	88.600	0.13874	1.1668	-4.1955E-6	
20.00000	60.06250	89.00000	-2.7287	88.600	0.17043	1.4449	-5.3574E-6	
20.00000	61.25000	89.00000	-2.4718	88.600	0.19968	1.7036	-6.3442E-6	
20.00000	62.43750	89.00000	-2.2336	88.600	0.22631	1.9049	-7.1434E-6	
20.00000	63.62500	89.00000	-2.0249	88.600	0.23630	2.0341	-7.7343E-6	
20.00000	64.81250	89.00000	-1.8520	88.600	0.23914	2.0798	-8.0942E-6	
20.00000	66.00000	89.00000	-1.7172	88.600	0.23083	2.0398	-8.2167E-6	
20.00000	67.18750	89.00000	-1.6185	88.600	0.21234	1.9208	-8.1161E-6	
20.00000	68.37500	89.00000	-1.5507	88.600	0.18599	1.7387	-7.8139E-6	
20.00000	69.56250	89.00000	-1.5063	88.600	0.15531	1.5154	-7.3229E-6	
20.00000	70.75000	89.00000	-1.4769	88.600	0.12422	1.2755	-6.6537E-6	
20.00000	71.93750	89.00000	-1.4550	88.600	0.09588	1.0408	-5.8356E-6	
20.00000	73.12500	89.00000	-1.4346	88.600	0.072309	0.82638	-4.9257E-6	
20.00000	74.31250	89.00000	-1.4118	88.600	0.053661	0.64031	-3.9948E-6	
20.00000	75.50000	89.00000	-1.3846	88.600	0.039524	0.48473	-3.1068E-6	
20.00000	76.68750	89.00000	-1.3524	88.600	0.029500	0.35816	-2.3053E-6	
20.00000	77.87500	89.00000	-1.3154	88.600	0.021413	0.25696	-1.6123E-6	
20.00000	79.06250	89.00000	-1.2742	88.600	0.015852	0.17740	-1.0326E-6	
20.00000	80.25000	89.00000	-1.2296	88.600	0.011809	0.11552	0.0	
20.00000	81.43750	89.00000	-1.1827	88.600	0.0088596	0.067842	0.0	
20.00000	82.62500	89.00000	-1.1340	88.600	0.0069973	0.034511	0.0	
20.00000	83.81250	89.00000	-1.0848	88.600	0.0051020	0.0039409	0.0	
20.00000	85.00000	89.00000	-1.0352	88.600	0.0039168	-0.016625	0.0	
21.25000	-10.00000	89.00000	-0.83817	88.600	94.250E-6	-0.064581	0.0	
21.25000	-8.81250	89.00000	-0.90984	88.600	180.31E-6	-0.067285	0.0	
21.25000	-7.62500	89.00000	-0.95403	88.600	359.70E-6	-0.067154	0.0	
21.25000	-6.43750	89.00000	-1.0725	88.600	840.83E-6	-0.058297	0.0	
21.25000	-5.25000	89.00000	-1.1632	88.600	0.0022386	-0.029924	0.0	
21.25000	-4.06250	89.00000	-1.2601	88.600	0.0075638	0.051767	0.0	
21.25000	-2.87500	89.00000	-1.3731	88.600	0.032279	0.25961	0.0	
21.25000	-1.68750	89.00000	-1.5008	88.600	0.071441	0.186205	0.0417E-6	
21.25000	-0.50000	89.00000	-1.9415	88.600	-0.053347	-1.1104	9.9175E-6	
21.25000	0.68750	89.00000	-2.1862	88.600	-0.045360	-1.4549	14.841E-6	
21.25000	1.87500	89.00000	-2.2516	88.600	-0.031060	-1.2270	13.059E-6	
21.25000	3.06250	89.00000	-2.1280	88.600	-457.28E-6	-0.62858	7.8534E-6	
21.25000	4.25000	89.00000	-2.0631	88.600	0.010071	-0.46216	2.2181E-6	
21.25000	5.43750	89.00000	-1.9363	88.600	0.030062	0.40626	-2.8347E-6	
21.25000	6.62500	89.00000	-1.8301	88.600	0.037311	0.77069	-6.8619E-6	
21.25000	7.81250	89.00000	-1.7695	88.600	0.040831	1.0034	-9.5173E-6	
21.25000	9.00000	89.00000	-1.7833	88.600	0.038832	1.0439	-10.176E-6	
21.25000	10.18750	89.00000	-1.8189	88.600	0.028650	0.84178	-8.4276E-6	
21.25000	11.37500	89.00000	-2.0642	88.600	0.015326	0.50921	-5.2360E-6	
21.25000	12.56250	89.00000	-2.2604	88.600	0.0073491	0.21818	-2.1846E-6	
21.25000	13.75000	89.00000	-2.4510	88.600	0.0035066	0.014837	0.0	
21.25000	14.93750	89.00000	-2.6296	88.600	0.0017730	-0.11723	1.6046E-6	
21.25000	16.12500	89.00000	-2.7891	88.600	985.20E-6	-0.20391	2.6318E-6	
21.25000	17.31250	89.00000	-2.9649	88.600	603.11E-6	-0.26434	3.3625E-6	
21.25000	18.50000	89.00000	-3.1318	88.600	395.72E-6	-0.31079	3.9297E-6	
21.25000	19.68750	89.00000	-3.3034	88.600	263.97E-6	-0.35024	4.4148E-6	
21.25000	20.87500	89.00000	-3.4826	88.600	162.66E-6	-0.38696	4.8681E-6	
21.25000	22.06250	89.00000	-3.6719	88.600	68.845E-6	-0.42372	5.2435E-6	
21.25000	23.25000	89.00000	-3.8726	88.600	-31.43E-6	-0.46244	5.8006E-6	
21.25000	24.43750	89.00000	-4.0856	88.600	-148.88E-6	-0.50455	6.3202E-6	
21.25000	25.62500	89.00000	-4.3101	88.600	-293.37E-6	-0.55107	6.8931E-6	
21.25000	26.81250	89.00000	-4.5434	88.600	-474.11E-6	-0.60246	7.5243E-6	
21.25000	28.00000	89.00000	-4.7796	88.600	-696.80E-6	-0.65817	8.2195E-6	
21.25000	29.18750	89.00000	-5.0090	88.600	-957.70E-6	-0.71611	8.9141E-6	
21.25000	30.37500	89.00000	-5.2175	88.600	-0.0012355	-0.77223	9.5974E-6	
21.25000	31.56250	89.00000	-5.3888	88.600	-0.0014924	-0.82097	10.190E-6	
21.25000	32.75000	89.00000	-5.5084	88.600	-0.0016863	-0.85660	10.625E-6	
21.25000	33.93750	89.00000	-5.6719	88.600	-0.0017897	-0.87618	10.860E-6	
21.25000	35.12500	89.00000	-5.5674	88.600	-0.0017979	-0.87862	10.890E-6	
21.25000	36.31250	89.00000	-5.5151	88.600	-0.0017238	-0.86641	10.742E-6	
21.25000	37.50000	89.00000	-5.4238	88.600	-0.0015838	-0.84318	10.461E-6	
21.25000	38.68750	89.00000	-5.3064	88.600	-0.0013851	-0.81245	10.091E-6	
21.25000	39.87500	89.00000	-5.1738	88.600	-0.011201	-0.77677	9.6630E-6	
21.25000	41.06250	89.00000	-5.0337	88.600	-769.07E-6	-0.73769	9.1991E-6	
21.25000	42.25000	89.00000	-4.8912	88.600	-301.62E-6	-0.69594	8.7104E-6	
21.25000	43.43750	89.00000	-4.7492	88.600	323.09E-6	-0.65164	8.2015E-6	
21.25000	44.62500	89.00000	-4.6093	88.600	0.0011592	-0.60427	7.6701E-6	
21.25000	45.81250	89.00000	-4.4721	88.600	0.0022982	-0.55281	7.1085E-6	
21.25000	47.00000	89.00000	-4.3375	88.600	0.0037749	-0.49573	6.5049E-6	
21.25000	48.18750	89.00000	-4.2045	88.600	0.0057742	-0.43115	5.8451E-6	
21.25000	49.37500	89.00000	-4.0717	88.600	0.0084401	-0.35689	5.1140E-6	
21.25000	50.56250	89.00000	-3.9374	88.600	0.011984	-0.27060	4.2980E-6	
21.25000	51.75000	89.00000	-3.7989	88.600	0.016672	-0.16988	3.3871E-6	
21.25000	52.93750	89.00000	-3.6536	88.600	0.022820	-0.052563	2.3777E-6	
21.25000	54.12500	89.00000	-3.4986	88.600	0.030768	0.082940	1.2758E-6	
21.25000	55.31250	89.00000	-3.3315	88.600	0.040820	0.23699	0.0	
21.25000	56.5000							

Name	Location		Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
22.50000	-6.43750	89.00000	-1.0129	88.600	463.73E-6	-0.066594	0.0	
22.50000	-5.25000	89.00000	-1.0975	88.600	977.89E-6	-0.061772	0.0	
22.50000	-4.06250	89.00000	-1.1920	88.600	0.0021490	-0.052488	0.0	
22.50000	-2.87500	89.00000	-1.3040	88.600	0.0042472	-0.055758	1.0195E-6	
22.50000	-1.68750	89.00000	-1.4465	88.600	0.0047551	-0.13644	2.0701E-6	
22.50000	0.50000	89.00000	-1.6097	88.600	848.02E-6	-0.30926	3.9368E-6	
22.50000	0.68750	89.00000	-1.7453	88.600	-0.0019680	-0.42346	5.1657E-6	
22.50000	1.87500	89.00000	-1.8216	88.600	-0.0015288	-0.40589	4.9782E-6	
22.50000	3.06250	89.00000	-1.8428	88.600	0.0010103	-0.28519	3.6548E-6	
22.50000	4.25000	89.00000	-1.8308	88.600	0.0037221	-0.12499	1.8488E-6	
22.50000	5.43750	89.00000	-1.8071	88.600	0.0059221	0.022855	0.0	
22.50000	6.62500	89.00000	-1.7895	88.600	0.0074485	0.16365	-1.4928E-6	
22.50000	7.81250	89.00000	-1.7935	88.600	0.0081690	0.24799	-2.4969E-6	
22.50000	9.00000	89.00000	-1.8320	88.600	0.0078301	0.26829	-2.7772E-6	
22.50000	10.18750	89.00000	-1.9106	88.600	0.0063572	0.22001	-2.2821E-6	
22.50000	11.37500	89.00000	-2.0228	88.600	0.0043655	0.12609	-1.2535E-6	
22.50000	12.56250	89.00000	-2.1547	88.600	0.0026772	0.022619	0.0	
22.50000	13.75000	89.00000	-2.2943	88.600	0.0015572	-0.067634	0.0	
22.50000	14.93750	89.00000	-2.4357	88.600	896.64E-6	-0.13872	1.8083E-6	
22.50000	16.12500	89.00000	-2.5773	88.600	522.09E-6	-0.19330	2.4650E-6	
22.50000	17.31250	89.00000	-2.7200	88.600	305.53E-6	-0.23606	3.2878E-6	
22.50000	18.50000	89.00000	-2.8653	88.600	171.25E-6	-0.27197	3.4258E-6	
22.50000	19.68750	89.00000	-3.0150	88.600	77.77E-6	-0.30369	3.8168E-6	
22.50000	20.87500	89.00000	-3.1705	88.600	2.6424E-6	-0.33370	4.1877E-6	
22.50000	22.06250	89.00000	-3.3326	88.600	-66.97E-6	-0.36361	4.5577E-6	
22.50000	23.25000	89.00000	-3.5000	88.600	-139.09E-6	-0.39454	-4.9404E-6	
22.50000	24.43750	89.00000	-3.6783	88.600	-219.39E-6	-0.42725	5.3449E-6	
22.50000	25.62500	89.00000	-3.8600	88.600	-312.11E-6	-0.46214	5.7757E-6	
22.50000	26.81250	89.00000	-4.0441	88.600	-419.98E-6	-0.49917	6.2322E-6	
22.50000	28.00000	89.00000	-4.2258	88.600	-543.09E-6	-0.53766	6.7059E-6	
22.50000	29.18750	89.00000	-4.4081	88.600	-677.92E-6	-0.57617	7.1782E-6	
22.50000	30.37500	89.00000	-4.5523	88.600	-811.92E-6	-0.61248	7.6247E-6	
22.50000	31.56250	89.00000	-4.6790	88.600	-932.70E-6	-0.64386	8.0094E-6	
22.50000	32.75000	89.00000	-4.7703	88.600	-0.0010235	-0.66773	8.3202E-6	
22.50000	33.93750	89.00000	-4.8215	88.600	-0.0010722	-0.68232	8.4815E-6	
22.50000	35.12500	89.00000	-4.8323	88.600	-0.0010206	-0.68714	8.5378E-6	
22.50000	36.31250	89.00000	-4.8065	88.600	-0.0010236	-0.68284	8.4917E-6	
22.50000	37.50000	89.00000	-4.7506	88.600	-924.79E-6	-0.67085	8.3487E-6	
22.50000	38.68750	89.00000	-4.6722	88.600	-773.08E-6	-0.65274	8.1328E-6	
22.50000	39.87500	89.00000	-4.5780	88.600	-559.69E-6	-0.62983	7.8613E-6	
22.50000	41.06250	89.00000	-4.4738	88.600	-269.52E-6	-0.60306	7.4912E-6	
22.50000	42.25000	89.00000	-4.3637	88.600	119.07E-6	-0.57292	7.1983E-6	
22.50000	43.43750	89.00000	-4.2504	88.600	635.08E-6	-0.53952	6.8181E-6	
22.50000	44.62500	89.00000	-4.1358	88.600	0.0013163	-0.50258	6.4058E-6	
22.50000	45.81250	89.00000	-4.0207	88.600	0.0022114	-0.46149	5.9575E-6	
22.50000	47.00000	89.00000	-3.9055	88.600	-0.0033828	-0.41533	5.4665E-6	
22.50000	48.18750	89.00000	-3.7898	88.600	0.0049092	-0.36297	4.9244E-6	
22.50000	49.37500	89.00000	-3.6728	88.600	0.0068889	-0.30312	4.3225E-6	
22.50000	50.56250	89.00000	-3.5533	88.600	0.0094410	-0.23447	3.6531E-6	
22.50000	51.75000	89.00000	-3.4301	88.600	0.0127203	-0.15577	2.9112E-6	
22.50000	52.93750	89.00000	-3.3013	88.600	0.016823	-0.06676	2.0958E-6	
22.50000	54.12500	89.00000	-3.1657	88.600	0.021937	0.035013	1.2123E-6	
22.50000	55.31250	89.00000	-3.0221	88.600	0.028131	0.14698	0.0	
22.50000	56.50000	89.00000	-2.8704	88.600	0.035389	0.26798	0.0	
22.50000	57.68750	89.00000	-2.7117	88.600	0.043200	0.39416	-1.6741E-6	
22.50000	58.87500	89.00000	-2.5485	88.600	0.052117	0.52132	-2.6179E-6	
22.50000	60.06250	89.00000	-2.3846	88.600	0.060554	0.64152	-3.4911E-6	
22.50000	61.25000	89.00000	-2.2247	88.600	0.068062	0.74746	-4.2551E-6	
22.50000	62.43750	89.00000	-2.0733	88.600	0.073781	0.83174	-4.8753E-6	
22.50000	63.62500	89.00000	-1.9246	88.600	0.077346	0.88833	-5.3237E-6	
22.50000	64.81250	89.00000	-1.8112	88.600	0.078113	0.91359	-5.5831E-6	
22.50000	66.00000	89.00000	-1.7046	88.600	0.076089	0.90672	-5.6492E-6	
22.50000	67.18750	89.00000	-1.6146	88.600	0.071516	0.86991	-5.5316E-6	
22.50000	68.37500	89.00000	-1.5396	88.600	0.064915	0.80798	-5.2514E-6	
22.50000	69.56250	89.00000	-1.4774	88.600	0.057007	0.72077	-4.8389E-6	
22.50000	70.75000	89.00000	-1.4249	88.600	0.048579	0.63647	-4.3293E-6	
22.50000	71.93750	89.00000	-1.3791	88.600	0.040335	0.54163	-3.7598E-6	
22.50000	73.12500	89.00000	-1.3376	88.600	0.032789	0.44907	-3.1665E-6	
22.50000	74.31250	89.00000	-1.2982	88.600	0.026228	0.36305	-2.5810E-6	
22.50000	75.50000	89.00000	-1.2609	88.600	0.020741	0.28608	-2.0038E-6	
22.50000	76.68750	89.00000	-1.2201	88.600	0.016282	0.21924	-1.5253E-6	
22.50000	77.87500	89.00000	-1.1802	88.600	0.012729	0.16255	-1.0813E-6	
22.50000	79.06250	89.00000	-1.1392	88.600	0.0099371	0.11537	0.0	
22.50000	80.25000	89.00000	-1.0974	88.600	0.0077633	0.076730	0.0	
22.50000	81.43750	89.00000	-1.0549	88.600	0.0060735	0.045019	0.0	
22.50000	82.62500	89.00000	-1.0121	88.600	0.0047667	0.020595	0.0	
22.50000	83.81250	89.00000	-0.96914	88.600	0.0037549	954.79E-6	0.0	
22.50000	85.00000	89.00000	-0.92642	88.600	0.0029701	-0.014334	0.0	
23.75000	-10.00000	89.00000	-0.76015	88.600	49.210E-6	-0.058399	0.0	
23.75000	-8.81250	89.00000	-0.81980	88.600	82.750E-6	0.022925	0.0	
23.75000	-7.62500	89.00000	-0.88435	88.600	141.13E-6	-0.065902	0.0	
23.75000	-6.43750	89.00000	-0.95429	88.600	244.01E-6	-0.069379	0.0	
23.75000	-5.25000	89.00000	-1.0304	88.600	421.54E-6	-0.073186	0.0	
23.75000	-4.06250	89.00000	-1.1140	88.600	694.36E-6	-0.079825	1.0540E-6	
23.75000	-2.87500	89.00000	-1.2070	88.600	977.92E-6	-0.096045	1.2789E-6	
23.75000	-1.68750	89.00000	-1.3096	88.600	981.92E-6	-0.13040	1.7103E-6	
23.75000	-0.50000	89.00000	-1.4144	88.600	581.96E-6	-0.17710	2.2662E-6	
23.75000	0.68750	89.00000	-1.5073	88.600	208.00E-6	-0.21009	2.6521E-6	
23.75000	1.87500	89.00000	-1.5770	88.600	252.04E-6	-0.20883	2.6395E-6	
23.75000	3.06250	89.00000	-1.6292	88.600	690.71E-6	-0.17372	2.2020E-6	
23.75000	4.25000	89.00000	-1.6497	88.600	0.0012877	-0.11857	1.5848E-6	
23.75000	5.43750	89.00000	-1.6692	88.600	0.0018512	-0.058754	0.0	
23.75000	6.62500	89.00000	-1.6905	88.600	0.0022710	-0.0069417	0.0	
23.75000	7.81250	89.00000	-1.7224	88.600	0.0024724	0.026919	0.0	
23.75000	9.00000	89.00000	-1.7717	88.600	0.0024701	0.17717	0.0	
23.75000	10.18750	89.00000	-1.8413	88.600	0.0020708	0.019493	0.0	
23.75000	11.37500	89.00000	-1.9295	88.600	0.0015908	-0.016533	0.0	
23.75000	12.56250	89.00000	-2.0318	88.600	0.0011130	-0.061606	0.0	
23.75000	13.75000	89.00000	-2.1429	88.600	729.45E-6	-0.10690	1.3963E-6	
23.75000	14.93750	89.00000	-2.2594	88.600	457.05E-6	-0.14970	3.8893E-6	
23.75000	16.12500	89.00000	-2.3793	88.600	274.09E-6	-0.18321	2.3197E-6	
23.75000	17.31250	89.00000	-2.5024	88.600	151.68E-6	-0.21390	2.6955E-6	
23.75000	18.50000	89.00000	-2.6287	88.600	66.170E-6	-0.24120	3.0317E-6	
23.75000	19.68750	89.00000	-2.7588	88.600	1.3508E-6	-0.26645	3.3437E-6	
23.75000	20.87500	89.00000	-2.8921	88.600	-53.187E-6	-0.29077	3.6448E-6	
23.75000	22.06250	89.00000	-3.0320	88.600	-104.09E-6	-0.31501	3.9451E-6	
23.75000	23.25000	89.00000	-3.1751	88.600	-155.69E-6	-0.33976	4.2518E-6	
23.75000	24.43750	89.00000	-3.3217	88.600	-210.91E-6	-0.36539	4.5693E-6	
23.75000	25.62500	89.00000	-3.4700	88.600	-271.51E-6	-0.39202	4.8988E-6	
23.75000	26.81250	89.00000	-3.6176	88.600	-338.11E-6	-0.41945	5.2381E-6	
23.75000	28.00000	89.00000	-3.7605	88.600	-409.72E-6	-0.44714	5.5802E-6	
23.75000	29.18750	89.00000	-3.8940	88.600	-483.28E-6	-0.47415	5.9136E-6	
23.75000	30.37500	89.00000	-4.0124	88.600	-553.48E-6	-0.49919	6.2225E-6	
23.75000	31.56250	89.00000	-4.1100	88.600	-613.26E-6	-0.52081	6.4893E-6	
23.75000	32.75000	89.00000	-4.1822	88.600	-			



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev. J12093 Drg. Ref. Made by Date Checked

Kidderpore East Side CASE 5- Drained Movements

Table with columns: Name, Location (X, Y, Z), Stresses (Calc Level, Vert Stress, Sum Princ, Vert Strain). Contains 100 rows of data.



SOUTHERN TESTING LABORATORIES

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Kidderpore East Side
CASE 5- Drained Movements

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
26.25000	39.87500	89.00000	-3.2713	88.600	113.48E-6	-0.36689	4.6125E-6	
26.25000	41.06250	89.00000	-3.2248	88.600	288.72E-6	-0.35602	4.4893E-6	
26.25000	42.25000	89.00000	-3.1709	88.600	513.60E-6	-0.34253	4.3370E-6	
26.25000	43.43750	89.00000	-3.1110	88.600	798.47E-6	-0.32643	4.1563E-6	
26.25000	44.62500	89.00000	-3.0463	88.600	0.0011556	-0.30764	3.9475E-6	
26.25000	45.81250	89.00000	-2.9777	88.600	0.0015992	-0.28604	3.7099E-6	
26.25000	47.00000	89.00000	-2.9057	88.600	0.0021456	-0.26147	3.4426E-6	
26.25000	48.18750	89.00000	-2.8307	88.600	0.0028126	-0.23372	3.1447E-6	
26.25000	49.37500	89.00000	-2.7527	88.600	0.0036189	-0.20263	2.8152E-6	
26.25000	50.56250	89.00000	-2.6719	88.600	0.0045824	-0.16806	2.4540E-6	
26.25000	51.75000	89.00000	-2.5882	88.600	0.0057194	-0.13002	2.0621E-6	
26.25000	52.93750	89.00000	-2.5015	88.600	0.0070355	-0.08862	1.6423E-6	
26.25000	54.12500	89.00000	-2.4118	88.600	0.0085316	-0.044374	1.1992E-6	
26.25000	55.31250	89.00000	-2.3193	88.600	0.010189	0.0021677	0.0	
26.25000	56.50000	89.00000	-2.2246	88.600	0.011968	0.049963	0.0	
26.25000	57.68750	89.00000	-2.1282	88.600	0.013866	0.097683	0.0	
26.25000	58.87500	89.00000	-2.0312	88.600	0.015618	0.14372	0.0	
26.25000	60.06250	89.00000	-1.9349	88.600	0.017298	0.18627	-1.0350E-6	
26.25000	61.25000	89.00000	-1.8405	88.600	0.018734	0.22352	-1.3944E-6	
26.25000	62.43750	89.00000	-1.7494	88.600	0.019920	0.25381	-1.6926E-6	
26.25000	63.62500	89.00000	-1.6628	88.600	0.020470	0.27751	-1.9388E-6	
26.25000	64.81250	89.00000	-1.5816	88.600	0.020633	0.28873	-2.0697E-6	
26.25000	66.00000	89.00000	-1.5064	88.600	0.020299	0.29237	-2.1405E-6	
26.25000	67.18750	89.00000	-1.4373	88.600	0.019498	0.28714	-2.1352E-6	
26.25000	68.37500	89.00000	-1.3742	88.600	0.018302	0.27405	-2.0610E-6	
26.25000	69.56250	89.00000	-1.3166	88.600	0.016807	0.25452	-1.9284E-6	
26.25000	70.75000	89.00000	-1.2638	88.600	0.015124	0.23021	-1.7501E-6	
26.25000	71.93750	89.00000	-1.2151	88.600	0.013362	0.20288	-1.5398E-6	
26.25000	73.12500	89.00000	-1.1696	88.600	0.011617	0.17417	-1.3109E-6	
26.25000	74.31250	89.00000	-1.1266	88.600	0.0099603	0.14546	-1.0754E-6	
26.25000	75.50000	89.00000	-1.0856	88.600	0.008431	0.11787	-0.0	
26.25000	76.68750	89.00000	-1.0459	88.600	0.0070914	0.092182	0.0	
26.25000	77.87500	89.00000	-1.0073	88.600	0.0059140	0.068879	0.0	
26.25000	79.06250	89.00000	-0.96935	88.600	0.0049061	0.048206	0.0	
26.25000	80.25000	89.00000	-0.93203	88.600	0.0040551	0.032016	0.0	
26.25000	81.43750	89.00000	-0.89533	88.600	0.0033440	0.014827	0.0	
26.25000	82.62500	89.00000	-0.85895	88.600	0.0027543	0.0018666	0.0	
26.25000	83.81250	89.00000	-0.82322	88.600	0.0022680	-0.0088846	0.0	
26.25000	85.00000	89.00000	-0.78808	88.600	0.0018685	-0.017670	0.0	
27.50000	-10.00000	89.00000	-0.65074	88.600	14.226E-6	-0.049919	0.0	
27.50000	-8.12500	89.00000	-0.9549	88.600	20.782E-6	-0.053331	0.0	
27.50000	-7.62500	89.00000	-0.74290	88.600	29.381E-6	-0.057063	0.0	
27.50000	-6.43750	89.00000	-0.79295	88.600	40.069E-6	-0.061198	0.0	
27.50000	-5.25000	89.00000	-0.84552	88.600	52.289E-6	-0.065847	0.0	
27.50000	-4.06250	89.00000	-0.90330	88.600	64.613E-6	-0.071037	0.0	
27.50000	-2.87500	89.00000	-0.95675	88.600	75.038E-6	-0.076906	0.0	
27.50000	-1.68750	89.00000	-1.0139	88.600	82.305E-6	-0.082939	1.0470E-6	
27.50000	-0.50000	89.00000	-1.0707	88.600	87.598E-6	-0.088488	1.1170E-6	
27.50000	0.68750	89.00000	-1.1258	88.600	94.638E-6	-0.092645	1.1697E-6	
27.50000	1.87500	89.00000	-1.1783	88.600	107.31E-6	-0.094698	1.1964E-6	
27.50000	3.06250	89.00000	-1.2281	88.600	126.85E-6	-0.094507	1.1955E-6	
27.50000	4.25000	89.00000	-1.2757	88.600	150.87E-6	-0.092611	1.1735E-6	
27.50000	5.43750	89.00000	-1.3223	88.600	174.61E-6	-0.090055	1.1432E-6	
27.50000	6.62500	89.00000	-1.3696	88.600	192.67E-6	-0.088087	1.1199E-6	
27.50000	7.81250	89.00000	-1.4182	88.600	200.62E-6	-0.087154	1.1176E-6	
27.50000	9.00000	89.00000	-1.4724	88.600	196.05E-6	-0.090166	1.1462E-6	
27.50000	10.18750	89.00000	-1.5301	88.600	179.17E-6	-0.095351	1.2100E-6	
27.50000	11.37500	89.00000	-1.5928	88.600	152.61E-6	-0.10324	1.3070E-6	
27.50000	12.56250	89.00000	-1.6602	88.600	120.41E-6	-0.11332	1.4310E-6	
27.50000	13.75000	89.00000	-1.7320	88.600	86.617E-6	-0.12450	1.5738E-6	
27.50000	14.93750	89.00000	-1.8075	88.600	54.193E-6	-0.13735	1.7277E-6	
27.50000	16.12500	89.00000	-1.8862	88.600	24.687E-6	-0.15021	1.8868E-6	
27.50000	17.31250	89.00000	-1.9676	88.600	-1.5367E-6	-0.16320	2.0478E-6	
27.50000	18.50000	89.00000	-2.0514	88.600	-24.841E-6	-0.17618	2.2089E-6	
27.50000	19.68750	89.00000	-2.1370	88.600	-45.904E-6	-0.18913	2.3698E-6	
27.50000	20.87500	89.00000	-2.2240	88.600	-65.435E-6	-0.20208	2.5309E-6	
27.50000	22.06250	89.00000	-2.3120	88.600	-84.025E-6	-0.21506	2.6923E-6	
27.50000	23.25000	89.00000	-2.4001	88.600	-102.07E-6	-0.22808	2.8544E-6	
27.50000	24.43750	89.00000	-2.4875	88.600	-119.71E-6	-0.24110	3.0165E-6	
27.50000	25.62500	89.00000	-2.5731	88.600	-136.82E-6	-0.25405	3.1776E-6	
27.50000	26.81250	89.00000	-2.6553	88.600	-152.99E-6	-0.26674	3.3375E-6	
27.50000	28.00000	89.00000	-2.7327	88.600	-167.43E-6	-0.27896	3.4879E-6	
27.50000	29.18750	89.00000	-2.8033	88.600	-179.03E-6	-0.29041	3.6307E-6	
27.50000	30.37500	89.00000	-2.8655	88.600	-186.29E-6	-0.30076	3.7602E-6	
27.50000	31.56250	89.00000	-2.9175	88.600	-187.43E-6	-0.30949	3.8772E-6	
27.50000	32.75000	89.00000	-2.9581	88.600	-180.37E-6	-0.31686	3.9626E-6	
27.50000	33.93750	89.00000	-2.9864	88.600	-162.82E-6	-0.32202	4.0286E-6	
27.50000	35.12500	89.00000	-3.0020	88.600	-132.26E-6	-0.32497	4.0680E-6	
27.50000	36.31250	89.00000	-3.0053	88.600	-85.879E-6	-0.32563	4.0797E-6	
27.50000	37.50000	89.00000	-2.9959	88.600	-20.476E-6	-0.32395	4.0636E-6	
27.50000	38.68750	89.00000	-2.9779	88.600	67.672E-6	-0.31995	4.0200E-6	
27.50000	39.87500	89.00000	-2.9495	88.600	182.97E-6	-0.31366	3.9498E-6	
27.50000	41.06250	89.00000	-2.9130	88.600	330.67E-6	-0.30514	3.8539E-6	
27.50000	42.25000	89.00000	-2.8696	88.600	516.93E-6	-0.29439	3.7331E-6	
27.50000	43.43750	89.00000	-2.8205	88.600	748.86E-6	-0.28142	3.5878E-6	
27.50000	44.62500	89.00000	-2.7665	88.600	0.0010350	-0.26618	3.4182E-6	
27.50000	45.81250	89.00000	-2.7084	88.600	0.0013844	-0.24861	3.2240E-6	
27.50000	47.00000	89.00000	-2.6467	88.600	0.0018071	-0.22862	3.0050E-6	
27.50000	48.18750	89.00000	-2.5819	88.600	0.0023137	-0.20613	2.7609E-6	
27.50000	49.37500	89.00000	-2.5141	88.600	0.0029143	-0.18107	2.4917E-6	
27.50000	50.56250	89.00000	-2.4435	88.600	0.0036177	-0.15345	2.1980E-6	
27.50000	51.75000	89.00000	-2.3702	88.600	0.0044299	-0.12335	1.8814E-6	
27.50000	52.93750	89.00000	-2.2944	88.600	0.0053518	-0.090975	1.5446E-6	
27.50000	54.12500	89.00000	-2.2161	88.600	0.0063768	-0.056700	1.1916E-6	
27.50000	55.31250	89.00000	-2.1357	88.600	0.0074948	-0.021094	0.0	
27.50000	56.50000	89.00000	-2.0536	88.600	0.0086586	0.015111	0.0	
27.50000	57.68750	89.00000	-1.9704	88.600	0.0098459	0.050929	0.0	
27.50000	58.87500	89.00000	-1.8869	88.600	0.010997	0.085257	0.0	
27.50000	60.06250	89.00000	-1.8040	88.600	0.012051	0.11690	0.0	
27.50000	61.25000	89.00000	-1.7225	88.600	0.012943	0.14465	0.0	
27.50000	62.43750	89.00000	-1.6435	88.600	0.013615	0.16745	-1.0762E-6	
27.50000	63.62500	89.00000	-1.5678	88.600	0.014018	0.18446	-1.2593E-6	
27.50000	64.81250	89.00000	-1.4961	88.600	0.014125	0.19516	-1.3856E-6	
27.50000	66.00000	89.00000	-1.4288	88.600	0.013929	0.19942	-1.4537E-6	
27.50000	67.18750	89.00000	-1.3660	88.600	0.013448	0.19748	-1.4656E-6	
27.50000	68.37500	89.00000	-1.3077	88.600	0.012721	0.18996	-1.4260E-6	
27.50000	69.56250	89.00000	-1.2537	88.600	0.011801	0.17776	-1.3421E-6	
27.50000	70.75000	89.00000	-1.2036	88.600	0.010750	0.16194	-1.2227E-6	
27.50000	71.93750	89.00000	-1.1567	88.600	0.0096314	0.14363	-1.0772E-6	
27.50000	73.12500	89.00000	-1.1127	88.600	0.0085024	0.12394	0.0	
27.50000	74.31250	89.00000	-1.0710	88.600	0.0074093	0.10383	0.0	
27.50000	75.50000	89.00000	-1.0311	88.600	0.0063861	0.084123	0.0	
27.50000	76.68750	89.00000	-0.99265	88.600	0.0054541	0.065417	0.0	
27.50000	77.87							



SOUTHERN TESTING LABORATORIES

Kidderpore East Side
CASE 5- Drained Movements

Job No. Sheet No. Rev.

J12093

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
28.75000	14.93750	89.00000	-1.6786	88.600	21.197E-6	-0.12929	1.6240E-6	
28.75000	16.12500	89.00000	-1.7482	88.600	3.1998E-6	-0.13931	1.7484E-6	
28.75000	17.31250	89.00000	-1.8200	88.600	-13.634E-6	-0.14961	1.8764E-6	
28.75000	18.50000	89.00000	-1.8935	88.600	-29.247E-6	-0.16006	2.0064E-6	
28.75000	19.68750	89.00000	-1.9683	88.600	-43.782E-6	-0.17051	2.1376E-6	
28.75000	20.87500	89.00000	-2.0440	88.600	-57.443E-6	-0.18122	2.2697E-6	
28.75000	22.06250	89.00000	-2.1200	88.600	-70.410E-6	-0.19186	2.4022E-6	
28.75000	23.25000	89.00000	-2.1957	88.600	-82.758E-6	-0.20250	2.5348E-6	
28.75000	24.43750	89.00000	-2.2703	88.600	-94.428E-6	-0.21307	2.6667E-6	
28.75000	25.62500	89.00000	-2.3427	88.600	-105.19E-6	-0.22350	2.7967E-6	
28.75000	26.81250	89.00000	-2.4119	88.600	-114.62E-6	-0.23383	2.9231E-6	
28.75000	28.00000	89.00000	-2.4766	88.600	-122.07E-6	-0.24330	3.0439E-6	
28.75000	29.18750	89.00000	-2.5356	88.600	-126.65E-6	-0.25230	3.1565E-6	
28.75000	30.37500	89.00000	-2.5874	88.600	-127.27E-6	-0.26040	3.2580E-6	
28.75000	31.56250	89.00000	-2.6310	88.600	-122.57E-6	-0.26736	3.3458E-6	
28.75000	32.75000	89.00000	-2.6655	88.600	-111.01E-6	-0.27297	3.4170E-6	
28.75000	33.93750	89.00000	-2.6901	88.600	-90.835E-6	-0.27703	3.4696E-6	
28.75000	35.12500	89.00000	-2.7047	88.600	-60.080E-6	-0.27942	3.5018E-6	
28.75000	36.31250	89.00000	-2.7092	88.600	-16.527E-6	-0.28001	3.5125E-6	
28.75000	37.50000	89.00000	-2.7043	88.600	42.341E-6	-0.27877	3.5014E-6	
28.75000	38.68750	89.00000	-2.6894	88.600	19.63E-6	-0.27567	3.4683E-6	
28.75000	39.87500	89.00000	-2.6685	88.600	218.03E-6	-0.27071	3.4135E-6	
28.75000	41.06250	89.00000	-2.6395	88.600	342.04E-6	-0.26390	3.3373E-6	
28.75000	42.25000	89.00000	-2.6043	88.600	495.85E-6	-0.25523	3.2401E-6	
28.75000	43.43750	89.00000	-2.5637	88.600	684.43E-6	-0.24469	3.1220E-6	
28.75000	44.62500	89.00000	-2.5184	88.600	913.29E-6	-0.23206	2.9845E-6	
28.75000	45.81250	89.00000	-2.4690	88.600	0.0011884	-0.21791	2.8240E-6	
28.75000	47.00000	89.00000	-2.4161	88.600	0.0015158	-0.20161	2.6441E-6	
28.75000	48.18750	89.00000	-2.3600	88.600	0.0019015	-0.18334	2.4438E-6	
28.75000	49.37500	89.00000	-2.3010	88.600	0.0023510	-0.16330	2.2237E-6	
28.75000	50.56250	89.00000	-2.2394	88.600	0.0028600	-0.14094	1.9845E-6	
28.75000	51.75000	89.00000	-2.1753	88.600	0.0034541	-0.11700	1.7282E-6	
28.75000	52.93750	89.00000	-2.1090	88.600	0.0041070	-0.091478	1.4572E-6	
28.75000	54.12500	89.00000	-2.0405	88.600	0.0048198	-0.064709	1.1749E-6	
28.75000	55.31250	89.00000	-1.9704	88.600	0.0055791	-0.037142	0.0	
28.75000	56.50000	89.00000	-1.8989	88.600	0.0063649	-0.0033626	0.0	
28.75000	57.68750	89.00000	-1.8266	88.600	0.0071501	0.017965	0.0	
28.75000	58.87500	89.00000	-1.7541	88.600	0.0079013	0.044033	0.0	
28.75000	60.06250	89.00000	-1.6820	88.600	0.0085815	0.068032	0.0	
28.75000	61.25000	89.00000	-1.6111	88.600	0.0093131	0.089164	0.0	
28.75000	62.43750	89.00000	-1.5420	88.600	0.0095837	0.10672	0.0	
28.75000	63.62500	89.00000	-1.4753	88.600	0.0098402	0.12015	0.0	
28.75000	64.81250	89.00000	-1.4116	88.600	0.0099126	0.12912	0.0	
28.75000	66.00000	89.00000	-1.3511	88.600	0.0097954	0.13352	0.0	
28.75000	67.18750	89.00000	-1.2941	88.600	0.0094984	0.13351	0.0	
28.75000	68.37500	89.00000	-1.2406	88.600	0.0090433	0.12947	0.0	
28.75000	69.56250	89.00000	-1.1903	88.600	0.0084610	0.12198	0.0	
28.75000	70.75000	89.00000	-1.1432	88.600	0.0077875	0.11173	0.0	
28.75000	71.93750	89.00000	-1.0988	88.600	0.0070603	0.099479	0.0	
28.75000	73.12500	89.00000	-1.0567	88.600	0.0062143	0.086162	0.0	
28.75000	74.31250	89.00000	-1.0167	88.600	0.0055793	0.071867	0.0	
28.75000	75.50000	89.00000	-0.97844	88.600	0.0048783	0.057781	0.0	
28.75000	76.68750	89.00000	-0.94154	88.600	0.0042274	0.044171	0.0	
28.75000	77.87500	89.00000	-0.90580	88.600	0.0036363	0.031385	0.0	
28.75000	79.06250	89.00000	-0.87125	88.600	0.0030921	0.019656	0.0	
28.75000	80.25000	89.00000	-0.83714	88.600	0.0026457	0.0091186	0.0	
28.75000	81.43750	89.00000	-0.80400	88.600	0.0022433	-171.85E-6	0.0	
28.75000	82.62500	89.00000	-0.77156	88.600	0.0018971	-0.0082225	0.0	
28.75000	83.81250	89.00000	-0.73982	88.600	0.0016015	-0.015084	0.0	
28.75000	85.00000	89.00000	-0.70976	88.600	0.0013506	-0.020834	0.0	
30.00000	-10.00000	89.00000	-0.58496	88.600	5.2353E-6	-0.044773	0.0	
30.00000	-8.81250	89.00000	-0.62210	88.600	7.5497E-6	-0.047540	0.0	
30.00000	-7.62500	89.00000	-0.66102	88.600	10.323E-6	-0.050500	0.0	
30.00000	-6.43750	89.00000	-0.70164	88.600	13.493E-6	-0.053661	0.0	
30.00000	-5.25000	89.00000	-0.74380	88.600	16.915E-6	-0.057019	0.0	
30.00000	-4.06250	89.00000	-0.78727	88.600	20.388E-6	-0.060541	0.0	
30.00000	-2.87500	89.00000	-0.83173	88.600	23.731E-6	-0.064153	0.0	
30.00000	-1.68750	89.00000	-0.87679	88.600	26.897E-6	-0.067728	0.0	
30.00000	-0.50000	89.00000	-0.92204	88.600	30.049E-6	-0.071098	0.0	
30.00000	0.68750	89.00000	-0.96711	88.600	33.498E-6	-0.074098	0.0	
30.00000	1.87500	89.00000	-1.0118	88.600	37.499E-6	-0.076625	0.0	
30.00000	3.06250	89.00000	-1.0560	88.600	42.017E-6	-0.078692	0.0	
30.00000	4.25000	89.00000	-1.1000	88.600	46.621E-6	-0.080449	1.0130E-6	
30.00000	5.43750	89.00000	-1.1441	88.600	50.551E-6	-0.082159	1.0348E-6	
30.00000	6.62500	89.00000	-1.1883	88.600	52.915E-6	-0.084137	1.0593E-6	
30.00000	7.81250	89.00000	-1.2353	88.600	52.938E-6	-0.086725	1.0923E-6	
30.00000	9.00000	89.00000	-1.2834	88.600	50.154E-6	-0.090141	1.1349E-6	
30.00000	10.18750	89.00000	-1.3337	88.600	44.515E-6	-0.094531	1.1896E-6	
30.00000	11.37500	89.00000	-1.3865	88.600	36.382E-6	-0.099911	1.2565E-6	
30.00000	12.56250	89.00000	-1.4418	88.600	26.392E-6	-0.10620	1.3346E-6	
30.00000	13.75000	89.00000	-1.4995	88.600	15.288E-6	-0.11325	1.4222E-6	
30.00000	14.93750	89.00000	-1.5595	88.600	3.7420E-6	-0.12088	1.5171E-6	
30.00000	16.12500	89.00000	-1.6213	88.600	-7.7396E-6	-0.12894	1.6174E-6	
30.00000	17.31250	89.00000	-1.6848	88.600	-18.847E-6	-0.13729	1.7214E-6	
30.00000	18.50000	89.00000	-1.7495	88.600	-29.431E-6	-0.14585	1.8279E-6	
30.00000	19.68750	89.00000	-1.8151	88.600	-39.450E-6	-0.15452	1.9361E-6	
30.00000	20.87500	89.00000	-1.8812	88.600	-48.902E-6	-0.16328	2.0452E-6	
30.00000	22.06250	89.00000	-1.9471	88.600	-57.772E-6	-0.17205	2.1547E-6	
30.00000	23.25000	89.00000	-2.0125	88.600	-65.993E-6	-0.18081	2.2639E-6	
30.00000	24.43750	89.00000	-2.0765	88.600	-73.417E-6	-0.18967	2.3720E-6	
30.00000	25.62500	89.00000	-2.1383	88.600	-79.766E-6	-0.19795	2.4780E-6	
30.00000	26.81250	89.00000	-2.1970	88.600	-84.657E-6	-0.20613	2.5803E-6	
30.00000	28.00000	89.00000	-2.2518	88.600	-87.542E-6	-0.21389	2.6775E-6	
30.00000	29.18750	89.00000	-2.3015	88.600	-87.719E-6	-0.22107	2.7675E-6	
30.00000	30.37500	89.00000	-2.3453	88.600	-84.324E-6	-0.22450	2.8485E-6	
30.00000	31.56250	89.00000	-2.3823	88.600	-76.329E-6	-0.23002	2.9183E-6	
30.00000	32.75000	89.00000	-2.4118	88.600	-62.543E-6	-0.23746	2.9751E-6	
30.00000	33.93750	89.00000	-2.4333	88.600	-41.611E-6	-0.24069	3.0172E-6	
30.00000	35.12500	89.00000	-2.4466	88.600	-12.002E-6	-0.24260	3.0433E-6	
30.00000	36.31250	89.00000	-2.4518	88.600	28.009E-6	-0.24309	3.0526E-6	
30.00000	37.50000	89.00000	-2.4491	88.600	80.368E-6	-0.24212	3.0443E-6	
30.00000	38.68750	89.00000	-2.4389	88.600	147.28E-6	-0.23965	3.0183E-6	
30.00000	39.87500	89.00000	-2.4219	88.600	231.22E-6	-0.23565	2.9745E-6	
30.00000	41.06250	89.00000	-2.3986	88.600	335.00E-6	-0.23012	2.9129E-6	
30.00000	42.25000	89.00000	-2.3697	88.600	461.72E-6	-0.22305	2.8377E-6	
30.00000	43.43750	89.00000	-2.3358	88.600	614.78E-6	-0.21442	2.7370E-6	
30.00000	44.62500	89.00000	-2.2976	88.600	797.82E-6	-0.20424	2.6230E-6	
30.00000	45.81250	89.00000	-2.2555	88.600	0.0010146	-0.19248	2.4918E-6	
30.00000	47.00000	89.00000	-2.2100	88.600	0.0012687	-0.17916	2.3437E-6	
30.00000	48.18750	89.00000	-2.1615	88.600	0.0015635	-0.16427	2.1791E-6	
30.00000	49.37500	89.00000	-2.1101	88.600	0.0019017	-0.14787	1.9987E-6	
30.00000	50.56250	89.00000	-2.0563	88.600	0.0022844	-0.13003	1.8036E-6	
30.00000	51.75000	89.00000	-2.0002	88.600	0.0027113	-0.11088	1.5955E-6	
3								



**SOUTHERN TESTING
LABORATORIES**

Kidderpore East Side
CASE 5- Drained Movements

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked

Name	Location		Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
Line 1	26.60000	-9.40000	90.15000	-0.69983	89.721	1.6463E-6	-0.0037720	0.0
	25.78000	-6.28000	90.15000	-0.87172	89.721	2.0365E-6	-0.0044055	0.0
	24.96000	-3.16000	90.15000	-1.0982	89.721	2.5422E-6	-0.0051900	0.0
	24.14000	-0.04000	90.15000	-1.4017	89.721	3.2049E-6	-0.0061731	0.0
	23.32000	3.08000	90.15000	-1.6907	89.721	4.0833E-6	-0.0074215	0.0
	22.50000	6.20000	90.15000	-1.7948	89.721	5.2628E-6	-0.0090302	0.0
	21.68000	9.32000	90.15000	-1.8403	89.721	6.8677E-6	-0.011138	0.0
	20.86000	12.44000	90.15000	-2.2639	89.721	9.0830E-6	-0.013949	0.0
	20.04000	15.56000	90.15000	-2.9515	89.721	12.187E-6	-0.017777	0.0
	19.22000	18.68000	90.15000	-3.6812	89.721	16.602E-6	-0.023108	0.0
	18.40000	21.80000	90.15000	-4.5713	89.721	22.978E-6	-0.030715	0.0
Line 2	18.40000	21.80000	90.15000	-4.5713	89.721	22.978E-6	-0.030715	0.0
	18.23809	24.79048	90.15000	-5.4403	89.721	32.147E-6	-0.038895	0.0
	18.07619	27.78095	90.15000	-6.6770	89.721	46.396E-6	-0.049401	0.0
	17.91429	30.77143	90.15000	-8.3641	89.721	69.882E-6	-0.062406	0.0
	17.75238	33.76191	90.15000	-9.4291	89.721	111.58E-6	-0.077238	0.0
	17.59048	36.75238	90.15000	-8.8469	89.721	191.78E-6	-0.091296	1.1601E-6
	17.42857	39.74286	90.15000	-7.8939	89.721	356.94E-6	-0.098556	1.2636E-6
	17.26667	42.73333	90.15000	-7.1598	89.721	715.36E-6	-0.088030	1.1585E-6
	17.10476	45.72381	90.15000	-6.6069	89.721	0.0015387	-0.041271	0.0
	16.94286	48.71429	90.15000	-6.1858	89.721	0.0036022	0.075478	0.0
	16.78095	51.70476	90.15000	-5.8489	89.721	0.0095154	0.33513	-3.4890E-6
	16.61905	54.69524	90.15000	-5.4919	89.721	0.029994	0.91807	-9.2623E-6
	16.45714	57.68571	90.15000	-4.6182	89.721	0.11671	2.2781	-19.800E-6
	16.29524	60.67619	90.15000	-2.8843	89.721	0.39866	4.8818	-31.244E-6
	16.13333	63.66667	90.15000	-1.2862	89.721	0.66023	7.0529	-38.794E-6
	15.97143	66.65714	90.15000	-0.67289	89.721	0.70849	7.1292	-36.118E-6
	15.80952	69.64762	90.15000	-0.99901	89.721	0.38684	4.6432	-29.140E-6
	15.64762	72.63809	90.15000	-1.5051	89.721	0.091739	2.0596	-18.938E-6
	15.48571	75.62857	90.15000	-1.6826	89.721	0.023858	0.91035	-9.6273E-6
	15.32381	78.61905	90.15000	-1.6409	89.721	0.0078286	0.43428	-4.8519E-6
	15.16190	81.60953	90.15000	-1.5029	89.721	0.0031678	0.22116	-2.5368E-6
	15.00000	84.60000	90.15000	-1.3334	89.721	0.0014432	0.11838	-1.3768E-6



SOUTHERN TESTING LABORATORIES

Kidderpore
Case 5A
Without Beneficial Strains

Job No.	Sheet No.	Rev.
J12093		
Drq. Ref.		
Made by	Date	Checked
	16-Nov-2016	

Distance from the utility's start	Coordinates	Displacements	Displacements at (n-Lp)			Displacements at (n+Lp)							
26.95370	16.94286 48.71429 90.15000	-2.83393 0.00000 4.41540	0.15320	2.82978	-2.75977	0.00000	4.38450	0.14920	2.75573	-2.90809	0.00000	4.53807	0.15721
2.82978													
32.94341	16.61905 54.69524 90.15000	-2.95536 0.00000 4.64444	0.15977	2.95104	-2.88120	0.00000	4.48735	0.15576	2.87699	-2.94864	-0.07592	5.01943	0.08360
2.95104													
38.93312	16.29524 60.67619 90.15000	-2.71153 -0.34285 5.36925	-0.19576	2.72610	-3.00263	0.00000	4.85894	0.16232	2.99824	-1.10657	-1.26290	5.11551	-1.20124
2.72610													
44.92284	15.97143 66.65714 90.15000	-0.51547 -1.16907 4.60591	-1.13949	0.57792	-1.59284	-1.07996	5.28454	-0.99227	1.64889	-0.11059	-0.41509	3.08679	-0.40851
0.57792													
50.91255	15.64762 72.63810 90.15000	0.00000 0.00000 1.29196	0.00000	0.00000	-0.22473	-0.67396	3.82059	-0.66082	0.26084	0.00000	0.00000	0.23313	0.00000
0.00000													
56.90226	15.32381 78.61905 90.15000	0.00000 0.00000 -0.08911	0.00000	0.00000	0.00000	0.00000	0.53893	0.00000	0.00000	0.00000	0.00000	-0.29689	0.00000
0.00000													

Specific Utility Damage Results - Pullouts and Rotations

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start vs start Hogging point	Coordinates			Pullout Check															
	Vertical			Left Seg.		Right Seg.		Total Flexural		Total		Threshold Limit							
	x	y	z	Axial	Flexural	Axial	Flexural	Axial	Flexural	Axial	Flexural	Axial	Flexural	Axial	Flexural	Unfactored	Factored		
0.00439	0.00439	-	OK	Hogging															
19.35574	21.68000	9.32000	90.15000	0.10524	0.10524	0.10728	0.10728	0.06800	0.06800	0.10728	0.10728	-0.03724	-0.03724	0.21455	0.21455	0.21455	0.21455	-	OK
0.02072	0.02072	-	OK	Sagging															
25.80766	20.04000	15.56000	90.15000	-0.04163	-0.04163	0.16740	0.16740	0.07089	0.07089	0.16740	0.16740	0.11252	0.11252	0.33480	0.33480	0.44732	0.44732	-	OK
0.03234	0.03234	-	OK	Hogging															
Iteration: 2																			
9.67787	24.14000	-0.04000	90.15000	0.07360	0.07360	0.10245	0.10245	0.08473	0.08473	0.10245	0.10245	0.01113	0.01113	0.20490	0.20490	0.21604	0.21604	-	OK
0.01979	0.01979	-	OK	Sagging															
16.12979	22.50000	6.20000	90.15000	0.09425	0.09425	0.03610	0.03610	0.10188	0.10188	0.03610	0.03610	0.00763	0.00763	0.07220	0.07220	0.07982	0.07982	-	OK
0.00697	0.00697	-	OK	Hogging															
22.58170	20.86000	12.44000	90.15000	0.08012	0.08012	0.30101	0.30101	-0.02233	-0.02233	0.30101	0.30101	-0.10244	-0.10244	0.60201	0.60201	0.60201	0.60201	-	OK
0.05814	0.05814	-	OK	Sagging															

Note: Total pullout ignores the axial component where this is negative (i.e. compression).

Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start vs start Hogging point	Coordinates			Pullout Check															
	Vertical			Left Seg.		Right Seg.		Total Flexural		Total		Threshold Limit							
	x	y	z	Axial	Flexural	Axial	Flexural	Axial	Flexural	Axial	Flexural	Axial	Flexural	Axial	Flexural	Unfactored	Factored		
0.02716	0.02716	-	OK	Sagging															
17.96913	17.42857	39.74286	90.15000	0.11819	0.11819	0.10161	0.10161	0.14536	0.14536	0.10161	0.10161	0.02717	0.02717	0.20323	0.20323	0.23040	0.23040	-	OK
0.01963	0.01963	-	OK	Hogging															
23.95885	17.10476	45.72381	90.15000	0.14792	0.14792	0.01773	0.01773	0.15193	0.15193	0.01773	0.01773	0.00401	0.00401	0.03545	0.03545	0.03946	0.03946	-	OK
0.00342	0.00342	-	OK	Hogging															
29.94856	16.78095	51.70476	90.15000	0.15448	0.15448	0.00772	0.00772	0.15849	0.15849	0.00772	0.00772	0.00401	0.00401	0.01543	0.01543	0.01944	0.01944	-	OK
0.00149	0.00149	-	OK	Hogging															
35.93827	16.45714	57.68571	90.15000	0.16105	0.16105	0.05486	0.05486	-0.12962	-0.12962	0.05486	0.05486	-0.29066	-0.29066	0.10973	0.10973	0.10973	0.10973	-	OK
0.01060	0.01060	-	OK	Hogging															
41.92798	16.13333	63.66667	90.15000	-0.66755	-0.66755	0.08523	0.08523	-1.11108	-1.11108	0.08523	0.08523	-0.44353	-0.44353	0.17047	0.17047	0.17047	0.17047	-	OK
0.01646	0.01646	-	OK	Sagging															
47.91769	15.80952	69.64762	90.15000	-0.84087	-0.84087	0.11554	0.11554	-0.26234	-0.26234	0.11554	0.11554	0.57853	0.57853	0.23109	0.23109	0.80961	0.80961	-	OK
0.02232	0.02232	-	OK	Sagging															
53.90740	15.48571	75.62857	90.15000	-0.05809	-0.05809	0.08293	0.08293	0.00000	0.00000	0.08293	0.08293	0.05809	0.05809	0.16585	0.16585	0.22394	0.22394	-	OK
0.01602	0.01602	-	OK	Hogging															
Iteration: 2																			
8.98457	17.91429	30.77143	90.15000	0.40062	0.40062	0.07632	0.07632	0.02011	0.02011	0.07632	0.07632	-0.38051	-0.38051	0.15263	0.15263	0.15263	0.15263	-	OK
0.01474	0.01474	-	OK	Hogging															
14.97428	17.59048	36.75238	90.15000	0.04911	0.04911	0.11348	0.11348	0.14208	0.14208	0.11348	0.11348	0.09297	0.09297	0.22695	0.22695	0.31993	0.31993	-	OK
0.02192	0.02192	-	OK	Sagging															
20.96399	17.26667	42.73333	90.15000	0.14464	0.14464	0.05568	0.05568	0.14864	0.14864	0.05568	0.05568	0.00401	0.00401	0.11136	0.11136	0.11537	0.11537	-	OK
0.01076	0.01076	-	OK	Hogging															
26.95370	16.94286	48.71429	90.15000	0.15120	0.15120	0.00744	0.00744	0.15521	0.15521	0.00744	0.00744	0.00401	0.00401	0.01488	0.01488	0.01889	0.01889	-	OK
0.00144	0.00144	-	OK	Hogging															
32.94341	16.61905	54.69524	90.15000	0.15776	0.15776	0.01873	0.01873	0.12169	0.12169	0.01873	0.01873	-0.03608	-0.03608	0.03746	0.03746	0.03746	0.03746	-	OK
0.00362	0.00362	-	OK	Hogging															
38.93312	16.29524	60.67619	90.15000	-0.01672	-0.01672	0.12093	0.12093	-0.69850	-0.69850	0.12093	0.12093	-0.68178	-0.68178	0.24186	0.24186	0.24186	0.24186	-	OK
0.02336	0.02336	-	OK	Sagging															
44.92284	15.97143	66.65714	90.15000	-1.06588	-1.06588	0.08498	0.08498	-0.77400	-0.77400	0.08498	0.08498	0.29188	0.29188	0.16996	0.16996	0.46184	0.46184	-	OK
0.01641	0.01641	-	OK	Sagging															
50.91255	15.64762	72.63810	90.15000	-0.33041	-0.33041	0.12105	0.12105	0.00000	0.00000	0.12105	0.12105	0.33041	0.33041	0.24209	0.24209	0.57251	0.57251	-	OK
0.02338	0.02338	-	OK	Hogging															
56.90226	15.32381	78.61905	90.15000	0.00000	0.00000	0.03408	0.03408	0.00000	0.00000	0.03408	0.03408	0.00000	0.00000	0.06816	0.06816	0.06816	0.06816	-	OK
0.00658	0.00658	-	OK	Hogging															

Note: Total pullout ignores the axial component where this is negative (i.e. compression).

Specific Utility Damage Results - Strains

Utility: Cast Iron Main Line 1 | Sub-utility: Sub 1

Distance from the utility's start point	Coordinates			Pipe Strain Check				Radius of Curvature Check		Peak flexural tensile strain orientation angle (w.r.t global z-axis)
	x	y	z	Axial	Flexural	Tension	Compression	Radius of Threshold Limit		



SOUTHERN TESTING LABORATORIES

Kidderpore
Case 5A
Without Beneficial Strains

Job No.	Sheet No.	Rev.
J12093		
Dr. Ref.		
Made by	Date	Checked
	16-Nov-2016	

		Tension		Compression		Total		Check		Total		Check		Curvature					
[m]	[m]	[m]	[m]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[m]	[Deg]				
6.45191	24.96000	-3.16000	90.15000	12.285	2.4569	10.704	10.704	-10.704	-10.704	22.98832	13.16067	OK	-10.70375	-10.70375	OK	2.7712E+4	-	-	-81.29172
9.67787	24.14000	-0.04000	90.15000	1.6317	0.32633	33.404	33.404	-33.404	-33.404	35.03592	33.73059	OK	-33.40426	-33.40426	OK	8.8798E+3	-	-	155.78471
12.90383	23.32000	3.08000	90.15000	3.4269	0.68537	8.9587	8.9587	-8.9587	-8.9587	12.38560	9.64410	OK	-8.95873	-8.95873	OK	3.1110E+4	-	-	0.00000
16.12979	22.50000	6.20000	90.15000	3.4568	0.69135	12.694	12.694	-12.694	-12.694	16.15053	13.38511	OK	-12.69376	-12.69376	OK	2.3368E+4	-	-	-0.00003
19.35574	21.68000	9.32000	90.15000	-7.7538	-1.5508	23.582	23.582	-23.582	-23.582	23.58204	23.58204	OK	-31.33586	-25.13281	OK	1.2578E+4	-	-	159.28617
22.58170	20.86000	12.44000	90.15000	-39.160	-7.8320	97.679	97.679	-97.679	-97.679	97.67902	97.67902	OK	-136.83909	-105.51103	OK	3.0367E+3	-	-	178.08617
25.80766	20.04000	15.56000	90.15000	24.601	4.9203	60.035	60.035	-60.035	-60.035	84.63669	64.95552	OK	-60.03523	-60.03523	OK	4.9408E+3	-	-	-10.64181

Note: Tensile strains are +ve, compressive strains are -ve.
 Note: The peak flexural tensile strain orientation angle is measured with respect to the global z-axis by looking at the end point of the utility from the start point. Anti-clockwise is positive.
 Utility: Cast Iron Main Line 2 | Sub-utility: Sub 2

Distance from the utility's start point		Coordinates				Pipe Strain Check				Radius of Curvature Check				Peak flexural tensile strain orientation angle (w.r.t global z-axis)					
x	y	z	Axial	Flexural	Tension	Compression	Total	Check	Compression	Total	Check	Radius of Curvature	Threshold	Limit					
[m]	[m]	[m]	[m]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[µe]	[m]	[m]	[m]	[Deg]				
2.99486	18.23810	24.79048	90.15000	32.880	6.5760	15.426	15.426	-15.426	-15.426	48.30620	22.00238	OK	-15.42643	-15.42643	OK	1.9228E+4	-	-	-44.33763
5.98971	18.07619	27.78095	90.15000	-132.03	-26.406	26.504	26.504	-26.504	-26.504	26.50371	26.50371	OK	-158.53497	-52.90996	OK	1.1192E+4	-	-	118.23974
8.98457	17.91429	30.77143	90.15000	-129.14	-25.829	27.292	27.292	-27.292	-27.292	27.29197	27.29197	OK	-156.43579	-53.12074	OK	1.0869E+4	-	-	58.29065
11.97942	17.75238	33.76190	90.15000	12.443	2.4886	43.884	43.884	-43.884	-43.884	56.32709	46.37255	OK	-43.88392	-43.88392	OK	6.7593E+3	-	-	197.28787
14.97428	17.59048	36.75238	90.15000	36.081	7.2162	36.923	36.923	-36.923	-36.923	73.00349	44.13889	OK	-36.92274	-36.92274	OK	8.0336E+3	-	-	187.33903
17.96913	17.42857	39.74286	90.15000	1.1496	0.22982	38.575	38.575	-38.575	-38.575	39.72472	38.80503	OK	-38.57510	-38.57510	OK	7.6895E+3	-	-	0.00005
20.96399	17.26667	42.73333	90.15000	1.0991	0.21983	10.936	10.936	-10.936	-10.936	12.03525	11.15595	OK	-10.93612	-10.93612	OK	2.7123E+4	-	-	-0.00000
23.95885	17.10476	45.72381	90.15000	1.0962	0.21924	3.6542	3.6542	-3.6542	-3.6542	4.75037	3.87342	OK	-3.65419	-3.65419	OK	8.1174E+4	-	-	-0.00052
26.95370	16.94286	48.71429	90.15000	1.0964	0.21929	1.5572	1.5572	-1.5572	-1.5572	2.65365	1.77650	OK	-1.55721	-1.55721	OK	1.9048E+5	-	-	0.00122
29.94856	16.78095	51.70476	90.15000	1.0969	0.21938	1.4618	1.4618	-1.4618	-1.4618	2.55875	1.68123	OK	-1.46185	-1.46185	OK	2.0291E+5	-	-	0.00000
32.94341	16.61905	54.69524	90.15000	1.0985	0.21971	4.5932	4.5932	-4.5932	-4.5932	5.69173	4.81290	OK	-4.59319	-4.59319	OK	6.4579E+4	-	-	0.00000
35.93827	16.45714	57.68571	90.15000	-59.348	-11.870	12.811	12.811	-12.811	-12.811	12.81085	12.81085	OK	-72.15896	-24.68047	OK	2.3154E+4	-	-	63.34149
38.93312	16.29524	60.67619	90.15000	-230.66	-46.133	40.734	40.734	-40.734	-40.734	40.73432	40.73432	OK	-271.39734	-86.86693	OK	7.2819E+3	-	-	116.94449
41.92798	16.13333	63.66667	90.15000	-157.49	-31.497	27.290	27.290	-27.290	-27.290	27.28961	27.28961	OK	-184.77663	-58.78702	OK	1.0869E+4	-	-	228.59768
44.92284	15.97143	66.65714	90.15000	115.94	23.188	16.638	16.638	-16.638	-16.638	132.57941	39.82665	OK	-16.63847	-16.63847	OK	1.7828E+4	-	-	225.25910
47.91769	15.80952	69.64762	90.15000	190.40	38.080	43.589	43.589	-43.589	-43.589	233.98869	81.66926	OK	-43.58940	-43.58940	OK	6.8005E+3	-	-	190.34120
50.91255	15.64762	72.63810	90.15000	87.748	17.550	44.611	44.611	-44.611	-44.611	132.35939	62.16107	OK	-44.61149	-44.61149	OK	6.6490E+3	-	-	-7.26824
53.90740	15.48571	75.62857	90.15000	0.026582	0.0053164	18.299	18.299	-18.299	-18.299	18.32557	18.30430	OK	-18.29898	-18.29898	OK	1.6210E+4	-	-	0.00000
56.90226	15.32381	78.61905	90.15000	0.0050630	0.0010126	7.4416	7.4416	-7.4416	-7.4416	7.44663	7.44257	OK	-7.44156	-7.44156	OK	3.9860E+4	-	-	0.00000

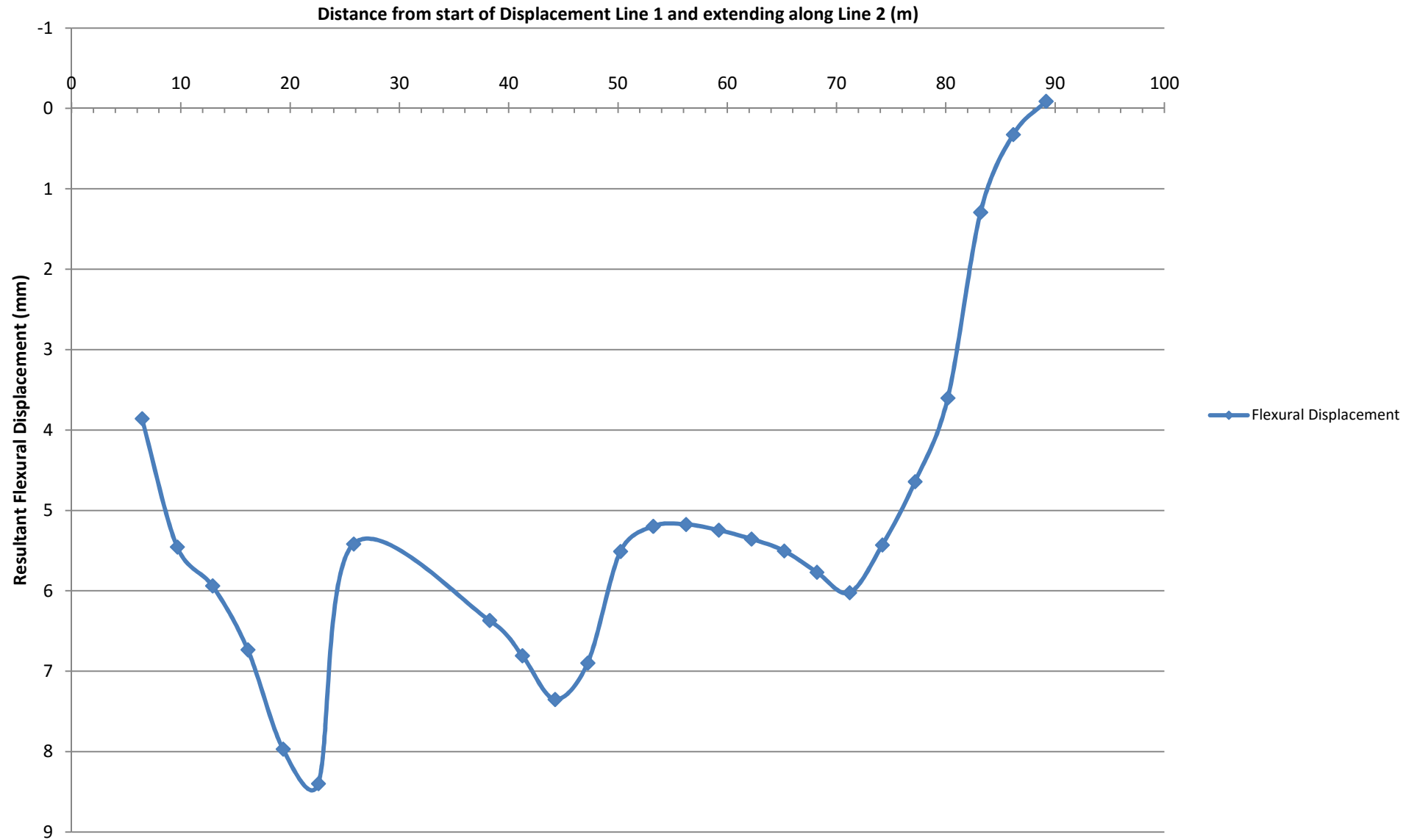
Note: Tensile strains are +ve, compressive strains are -ve.
 Note: The peak flexural tensile strain orientation angle is measured with respect to the global z-axis by looking at the end point of the utility from the start point. Anti-clockwise is positive.

Specific Utility Damage Results - Maximum Values

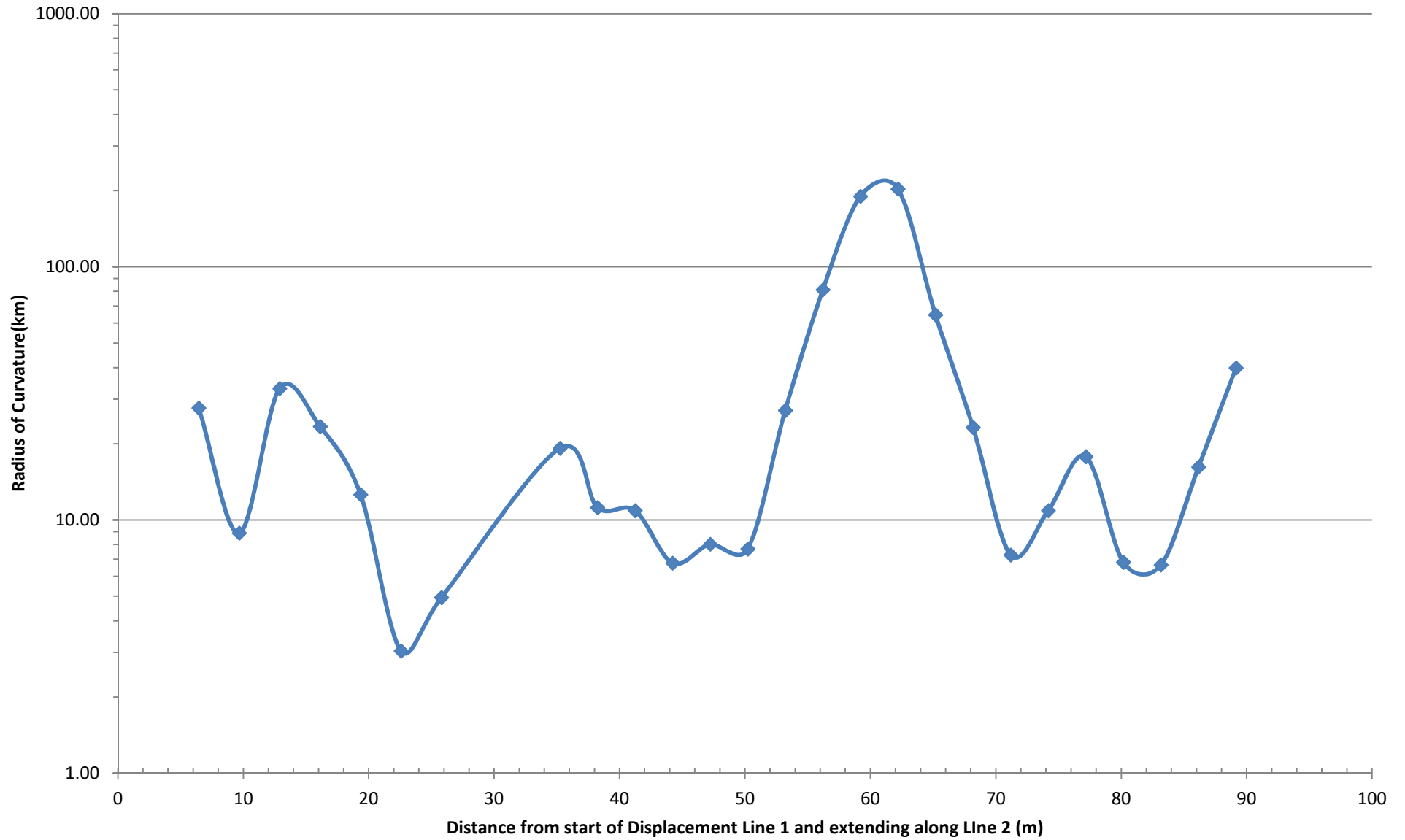
Name	Jointed	Displacement Data Type	Displacement Data	Maximum Pullout		Maximum Rotation		Maximum Strain		Minimum Radius of Curvature		Maximum Displacement					
				(Factored)	(Factored)	(Factored)	(Factored)	Tension	Compression	Vertical	Horizontal						
				Location	Value	Location	Value	Location	Value	Location	Value	Location	Value	Location	Value		
Cast Iron Main Line 1	Yes	Displacement	Line 1	[m]	[mm]	[m]	[Deg]	[m]	[µe]	[m]	[µe]	[m]	[m]	[mm]	[m]	[mm]	
Cast Iron Main Line 2	Yes	Displacement	Line 2	22.582	0.60201	22.582	0.05814	22.58170	97.67902	22.58170	-105.51103	22.582	3.0367E+3	22.582	8.3390	32.259	0.77275
Cast Iron Main Line 2	Yes	Displacement	Line 2	47.918	0.80961	11.979	0.02716	47.91769	81.66926	38.93312	-86.86693	50.913	6.6490E+3	11.979	6.8483	41.928	-1.2188

Note: * symbol indicates that the value has exceeded one of (or both) the limiting criteria

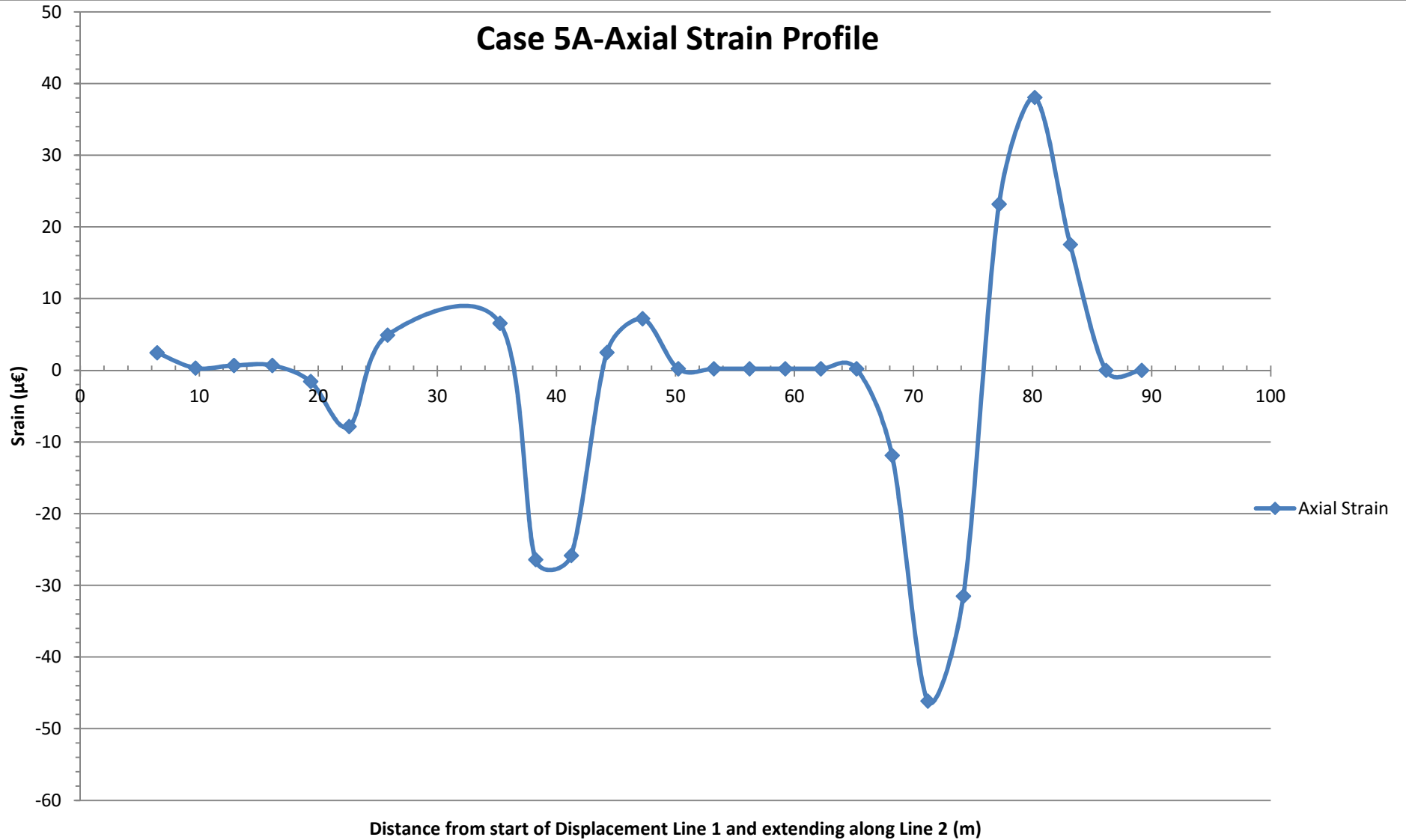
Case 5A-Resultant Flexural Displacement Profile



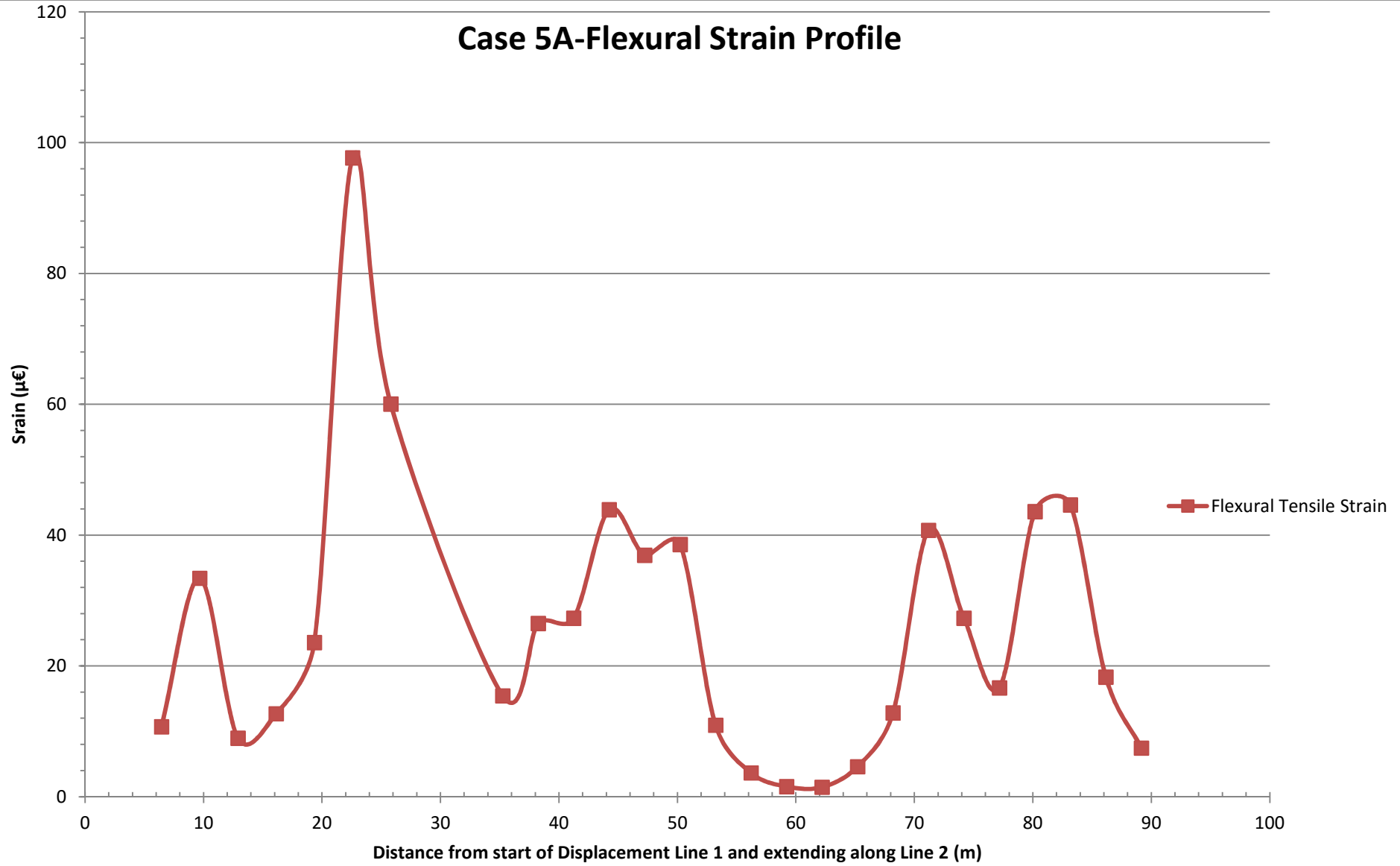
Case 5A-Radius of Curvature Profile



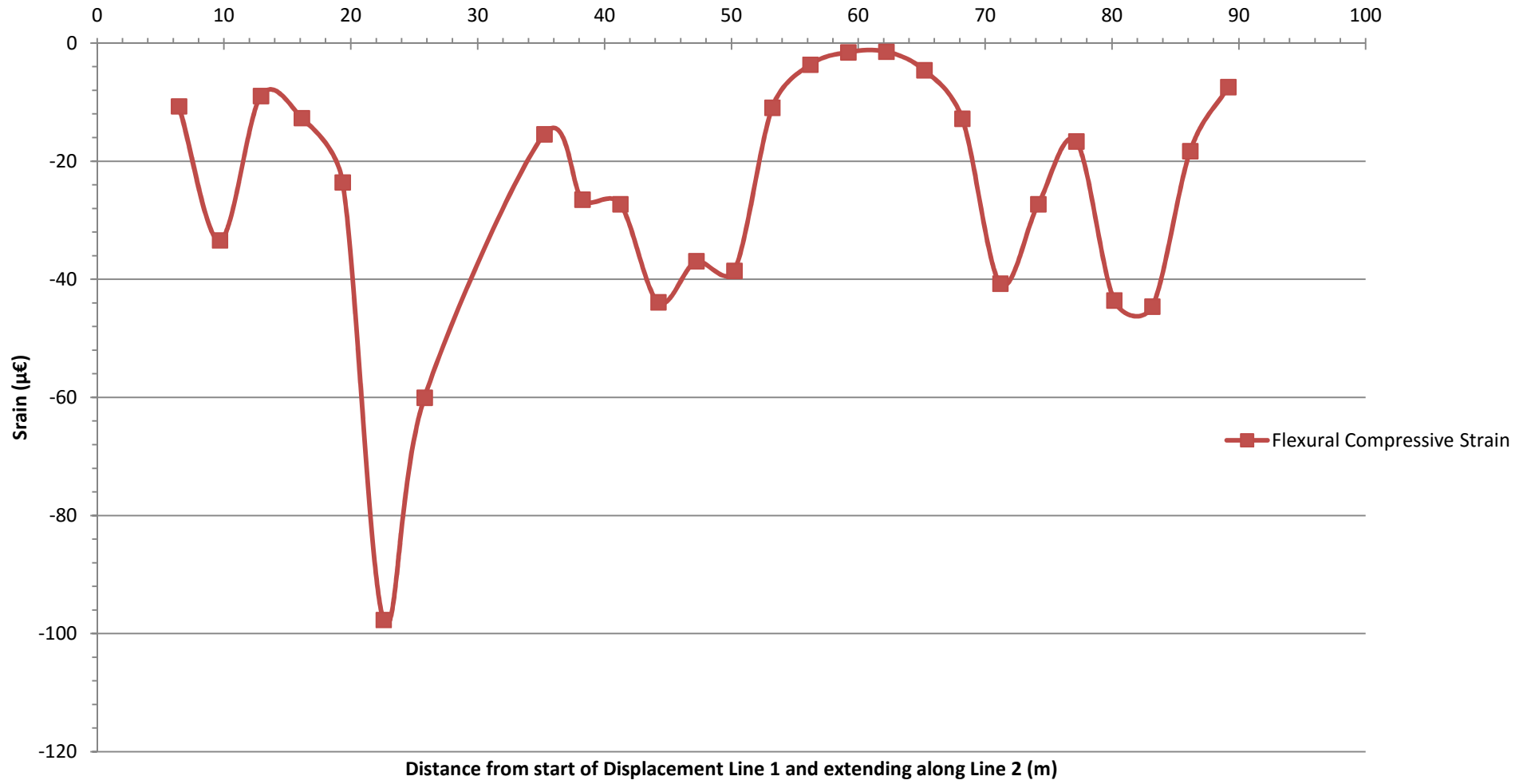
Case 5A-Axial Strain Profile



Case 5A-Flexural Strain Profile



Case 5A-Flexural Strain Profile



Case 5A-Combined Strain Profile

