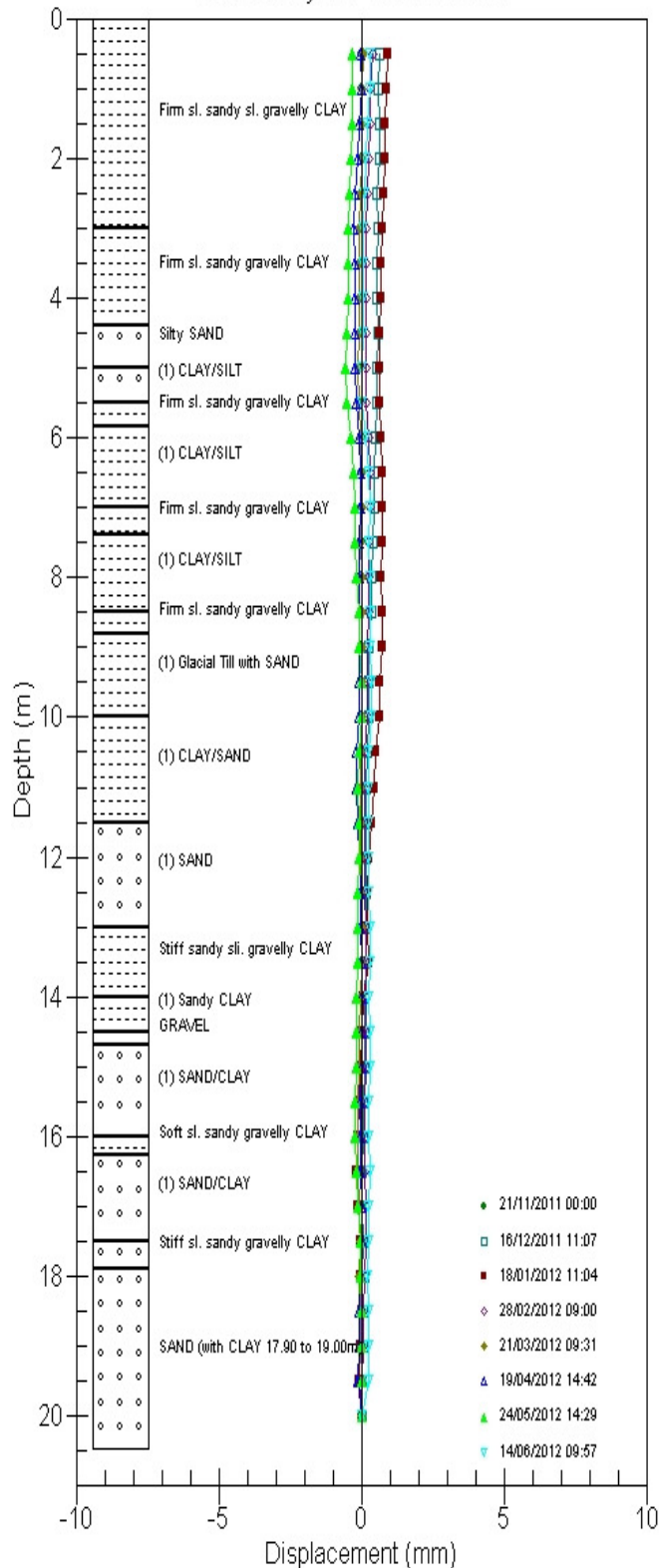


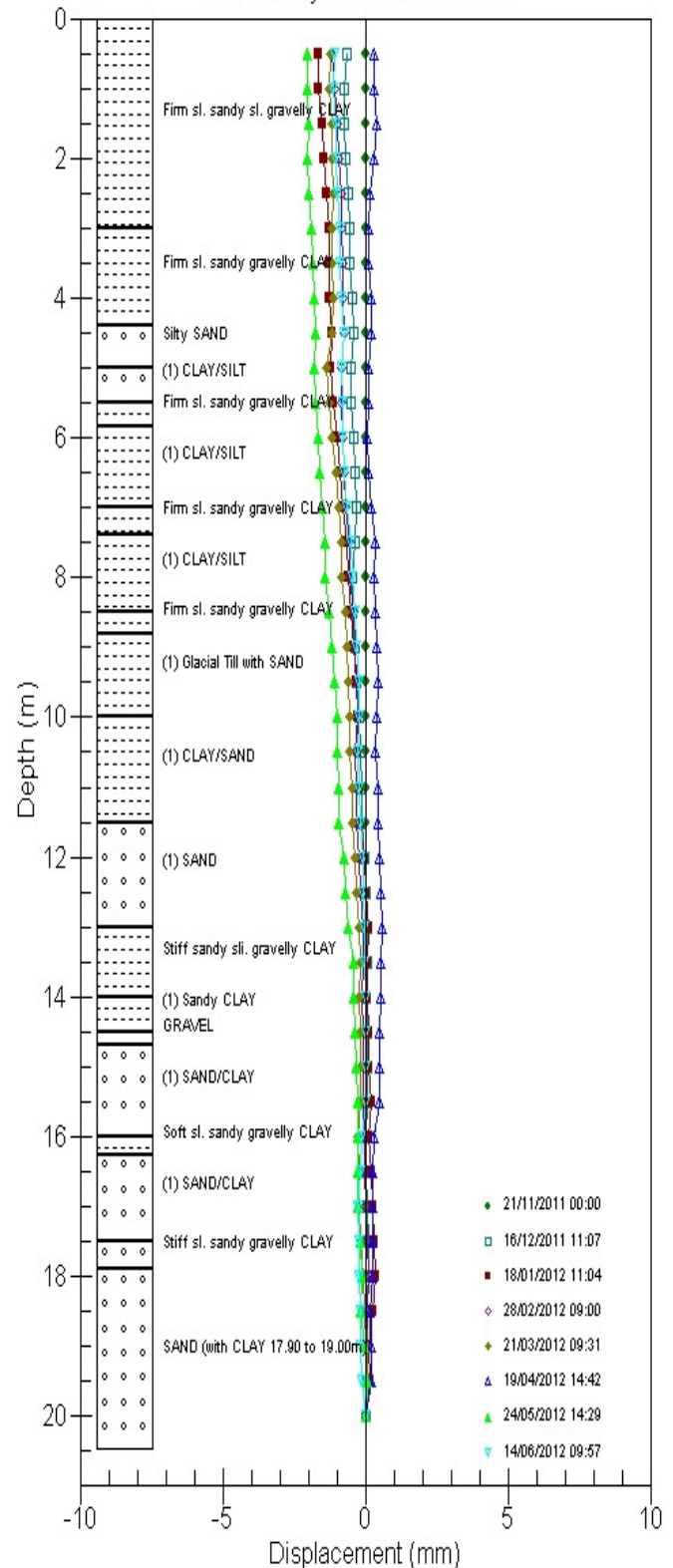
## 3833:BHC2 - A Axis Cumulative

Initial survey: 21/11/2011 00:00



## 3833:BHC2 - B Axis Cumulative

Initial survey: 21/11/2011 00:00



PROJECT: 3833

SITE: Filey Flat Cliffs: Ground Investigation

INSTALLATION: BH-C2

COMPANY: Allied Exploration & Geotechnics Limited

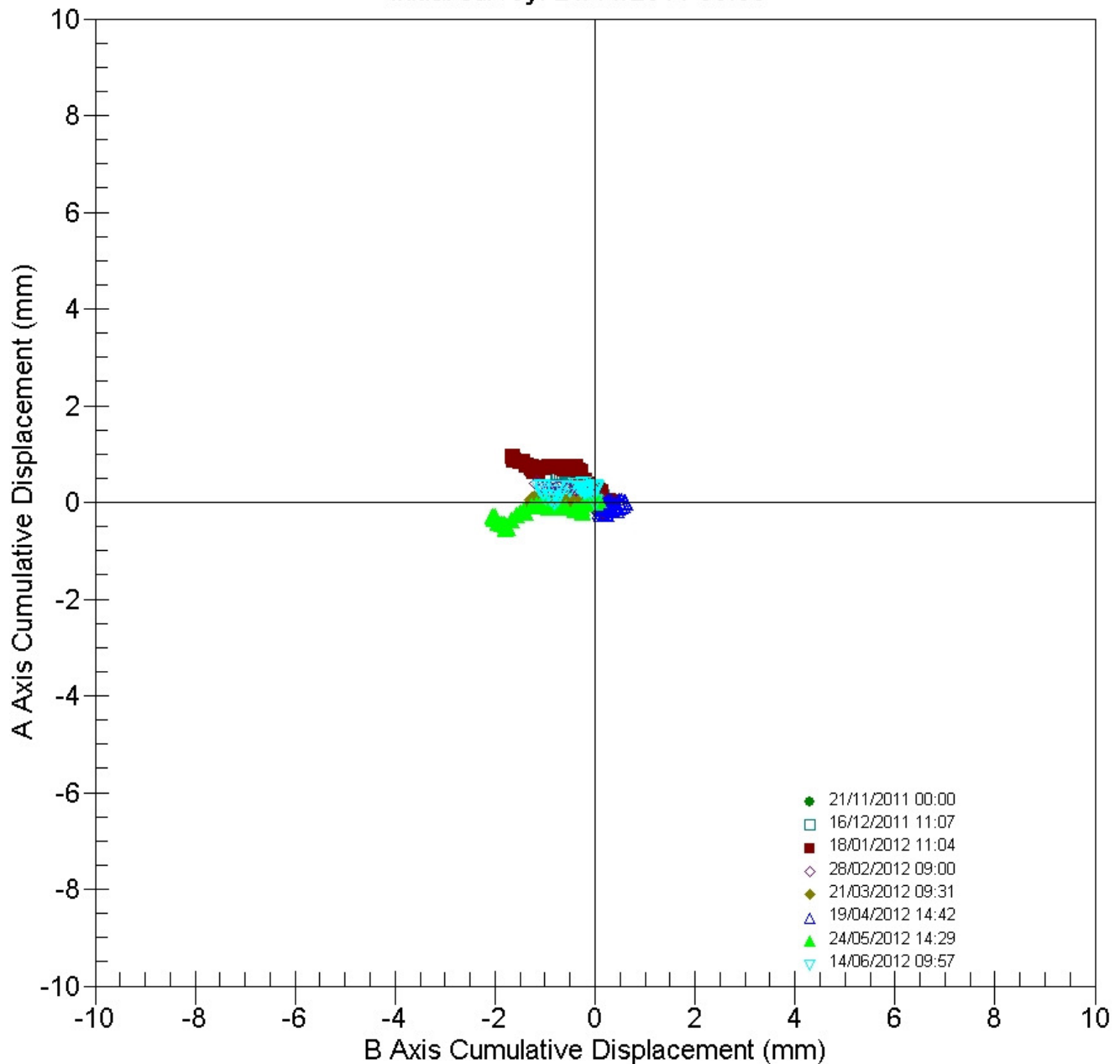
CLIENT: Scarborough Borough Council

NOTE: Initial Average Survey 21/11/2011 @ 00:00 (from readings taken on 14/11/2011)

(1) Description derived from drillers daily reports.

## 3833:BHC2 - A Axis vs B Axis

Initial survey: 21/11/2011 00:00



PROJECT: 3833

SITE: Filey Flat Cliffs: Ground Investigation

INSTALLATION: BH-C2

COMPANY: Allied Exploration & Geotechnics Limited

CLIENT: Scarborough Borough Council

NOTE: Initial Average Survey 21/11/2011 @ 00:00 (from readings taken on 14/11/2011)

(1) Description derived from drillers daily reports.

PROJECT: 3833  
 SITE: Filey Flat Cliffs: Ground Investigation  
 INSTALLATION: BH-C2  
 COMPANY: Allied Exploration & Geotechnics Limited  
 CLIENT: Scarborough Borough Council  
 NOTE: Initial Average Survey 21/11/2011 @ 00:00 (from readings taken on 14/11/2011)  
 (1) Description derived from drillers daily reports.

Cumulative Deflection Data in A Axis (mm):

Depth (m)	21/11/2011 00:00 (mm)	16/12/2011 11:07 (mm)	18/01/2012 11:04 (mm)	28/02/2012 09:00 (mm)	21/03/2012 09:31 (mm)	19/04/2012 14:42 (mm)	24/05/2012 14:29 (mm)	14/06/2012 09:57 (mm)
0.5	0.00	0.62	0.94	0.38	0.09	-0.01	-0.30	0.31
1.0	0.00	0.60	0.86	0.31	0.04	0.00	-0.29	0.29
1.5	0.00	0.63	0.84	0.30	0.03	-0.06	-0.32	0.22
2.0	0.00	0.62	0.82	0.28	0.02	-0.14	-0.34	0.19
2.5	0.00	0.57	0.77	0.20	-0.03	-0.21	-0.42	0.11
3.0	0.00	0.57	0.74	0.16	-0.06	-0.24	-0.44	0.09
3.5	0.00	0.57	0.71	0.16	-0.08	-0.24	-0.45	0.08
4.0	0.00	0.55	0.67	0.16	-0.08	-0.23	-0.47	0.08
4.5	0.00	0.58	0.64	0.18	-0.08	-0.21	-0.49	0.07
5.0	0.00	0.55	0.63	0.16	-0.12	-0.23	-0.54	0.01
5.5	0.00	0.54	0.64	0.18	-0.09	-0.19	-0.51	0.02
6.0	0.00	0.52	0.70	0.26	-0.03	-0.09	-0.36	0.18
6.5	0.00	0.47	0.74	0.31	0.03	-0.03	-0.25	0.28
7.0	0.00	0.46	0.72	0.31	0.02	-0.03	-0.21	0.29
7.5	0.00	0.40	0.71	0.27	0.00	-0.07	-0.21	0.26
8.0	0.00	0.36	0.69	0.26	0.00	-0.09	-0.15	0.29
8.5	0.00	0.36	0.74	0.26	0.02	-0.07	-0.09	0.33
9.0	0.00	0.28	0.72	0.24	0.02	-0.07	-0.05	0.33
9.5	0.00	0.27	0.64	0.23	0.03	-0.07	0.01	0.36
10.0	0.00	0.24	0.63	0.21	0.03	-0.06	0.03	0.36
10.5	0.00	0.19	0.48	0.14	-0.03	-0.15	-0.08	0.27
11.0	0.00	0.18	0.43	0.11	-0.04	-0.16	-0.11	0.25
11.5	0.00	0.16	0.35	0.11	-0.01	-0.11	-0.09	0.27
12.0	0.00	0.16	0.26	0.11	-0.01	-0.08	-0.09	0.27
12.5	0.00	0.15	0.22	0.11	0.00	-0.04	-0.11	0.27
13.0	0.00	0.15	0.21	0.15	0.02	-0.01	-0.11	0.29
13.5	0.00	0.14	0.24	0.17	0.01	0.00	-0.13	0.30
14.0	0.00	0.13	0.09	0.16	-0.03	0.00	-0.16	0.25
14.5	0.00	0.10	0.03	0.16	-0.05	0.01	-0.16	0.29
15.0	0.00	0.12	-0.02	0.16	-0.06	0.03	-0.16	0.30
15.5	0.00	0.09	-0.06	0.14	-0.11	-0.01	-0.19	0.28
16.0	0.00	0.06	-0.10	0.13	-0.13	-0.05	-0.21	0.28
16.5	0.00	0.04	-0.17	0.14	-0.11	-0.03	-0.16	0.30
17.0	0.00	0.04	-0.11	0.15	-0.09	0.01	-0.10	0.28
17.5	0.00	0.09	-0.03	0.16	-0.04	0.03	-0.02	0.27
18.0	0.00	0.10	-0.01	0.12	-0.05	0.00	-0.01	0.22
18.5	0.00	0.09	0.02	0.08	-0.04	-0.05	0.01	0.24
19.0	0.00	0.06	-0.01	0.05	-0.01	-0.08	0.03	0.26
19.5	0.00	0.04	-0.08	0.03	0.02	-0.10	0.05	0.25
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

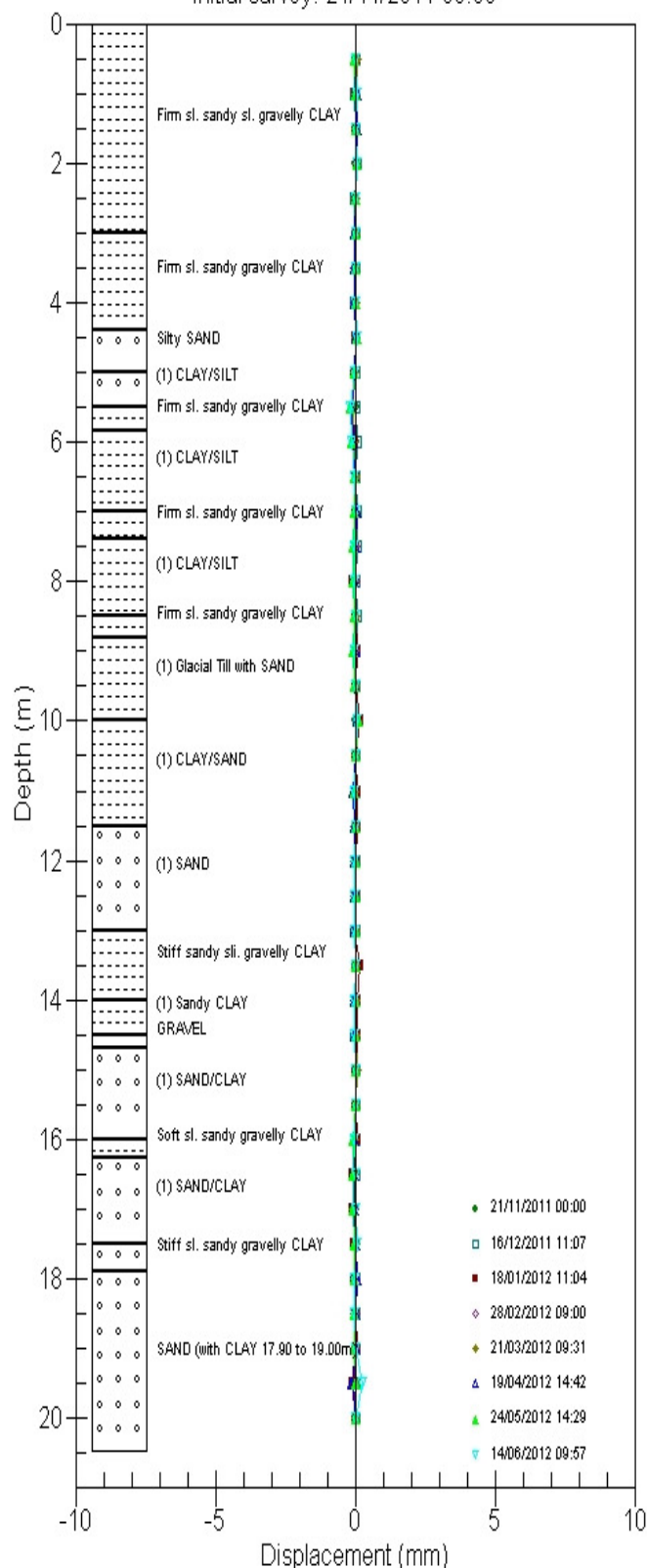
PROJECT: 3833  
 SITE: Filey Flat Cliffs: Ground Investigation  
 INSTALLATION: BH-C2  
 COMPANY: Allied Exploration & Geotechnics Limited  
 CLIENT: Scarborough Borough Council  
 NOTE: Initial Average Survey 21/11/2011 @ 00:00 (from readings taken on 14/11/2011)  
 (1) Description derived from drillers daily reports.

Cumulative Deflection Data in B Axis (mm):

Depth (m)	21/11/2011 00:00 (mm)	16/12/2011 11:07 (mm)	18/01/2012 11:04 (mm)	28/02/2012 09:00 (mm)	21/03/2012 09:31 (mm)	19/04/2012 14:42 (mm)	24/05/2012 14:29 (mm)	14/06/2012 09:57 (mm)
0.5	0.00	-0.65	-1.64	-1.16	-1.22	0.33	-2.00	-1.07
1.0	0.00	-0.73	-1.63	-1.10	-1.27	0.33	-2.04	-1.11
1.5	0.00	-0.74	-1.50	-1.00	-1.19	0.40	-1.99	-1.03
2.0	0.00	-0.71	-1.44	-0.92	-1.15	0.31	-2.02	-1.03
2.5	0.00	-0.61	-1.35	-0.85	-1.13	0.19	-1.95	-0.99
3.0	0.00	-0.55	-1.27	-0.82	-1.18	0.13	-1.87	-0.87
3.5	0.00	-0.53	-1.25	-0.78	-1.15	0.14	-1.83	-0.87
4.0	0.00	-0.47	-1.24	-0.77	-1.10	0.23	-1.79	-0.81
4.5	0.00	-0.41	-1.17	-0.76	-1.18	0.20	-1.76	-0.73
5.0	0.00	-0.51	-1.20	-0.86	-1.34	0.12	-1.80	-0.81
5.5	0.00	-0.48	-1.13	-0.85	-1.27	0.11	-1.74	-0.77
6.0	0.00	-0.42	-1.00	-0.80	-1.15	0.09	-1.66	-0.78
6.5	0.00	-0.36	-0.90	-0.75	-1.04	0.14	-1.57	-0.75
7.0	0.00	-0.33	-0.78	-0.68	-0.95	0.22	-1.49	-0.65
7.5	0.00	-0.35	-0.66	-0.56	-0.83	0.35	-1.39	-0.49
8.0	0.00	-0.45	-0.60	-0.54	-0.81	0.30	-1.41	-0.47
8.5	0.00	-0.43	-0.48	-0.43	-0.70	0.38	-1.25	-0.35
9.0	0.00	-0.36	-0.39	-0.38	-0.65	0.40	-1.16	-0.30
9.5	0.00	-0.31	-0.33	-0.32	-0.60	0.44	-1.06	-0.23
10.0	0.00	-0.20	-0.28	-0.26	-0.54	0.41	-0.98	-0.23
10.5	0.00	-0.16	-0.28	-0.37	-0.54	0.36	-1.00	-0.28
11.0	0.00	-0.12	-0.21	-0.29	-0.46	0.44	-0.92	-0.21
11.5	0.00	-0.10	-0.15	-0.29	-0.44	0.45	-0.91	-0.19
12.0	0.00	-0.03	-0.04	-0.23	-0.34	0.52	-0.74	-0.08
12.5	0.00	0.00	0.04	-0.18	-0.29	0.55	-0.67	-0.09
13.0	0.00	0.07	0.13	-0.08	-0.21	0.61	-0.59	-0.02
13.5	0.00	0.07	0.07	-0.05	-0.15	0.57	-0.41	-0.02
14.0	0.00	0.04	0.10	-0.10	-0.20	0.53	-0.41	0.03
14.5	0.00	0.06	0.14	-0.09	-0.18	0.52	-0.35	0.01
15.0	0.00	0.07	0.14	-0.08	-0.18	0.49	-0.32	0.01
15.5	0.00	0.08	0.21	-0.05	-0.17	0.49	-0.25	0.02
16.0	0.00	0.03	0.14	-0.02	-0.25	0.30	-0.25	-0.14
16.5	0.00	0.04	0.24	-0.04	-0.21	0.28	-0.27	-0.16
17.0	0.00	0.10	0.27	0.00	-0.22	0.25	-0.27	-0.24
17.5	0.00	0.12	0.30	0.05	-0.17	0.27	-0.19	-0.21
18.0	0.00	0.13	0.35	0.11	-0.08	0.28	-0.11	-0.20
18.5	0.00	0.03	0.27	0.07	-0.04	0.18	-0.16	-0.18
19.0	0.00	0.05	0.14	0.01	0.04	0.20	-0.01	-0.15
19.5	0.00	0.08	0.17	0.11	0.13	0.21	0.07	-0.12
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

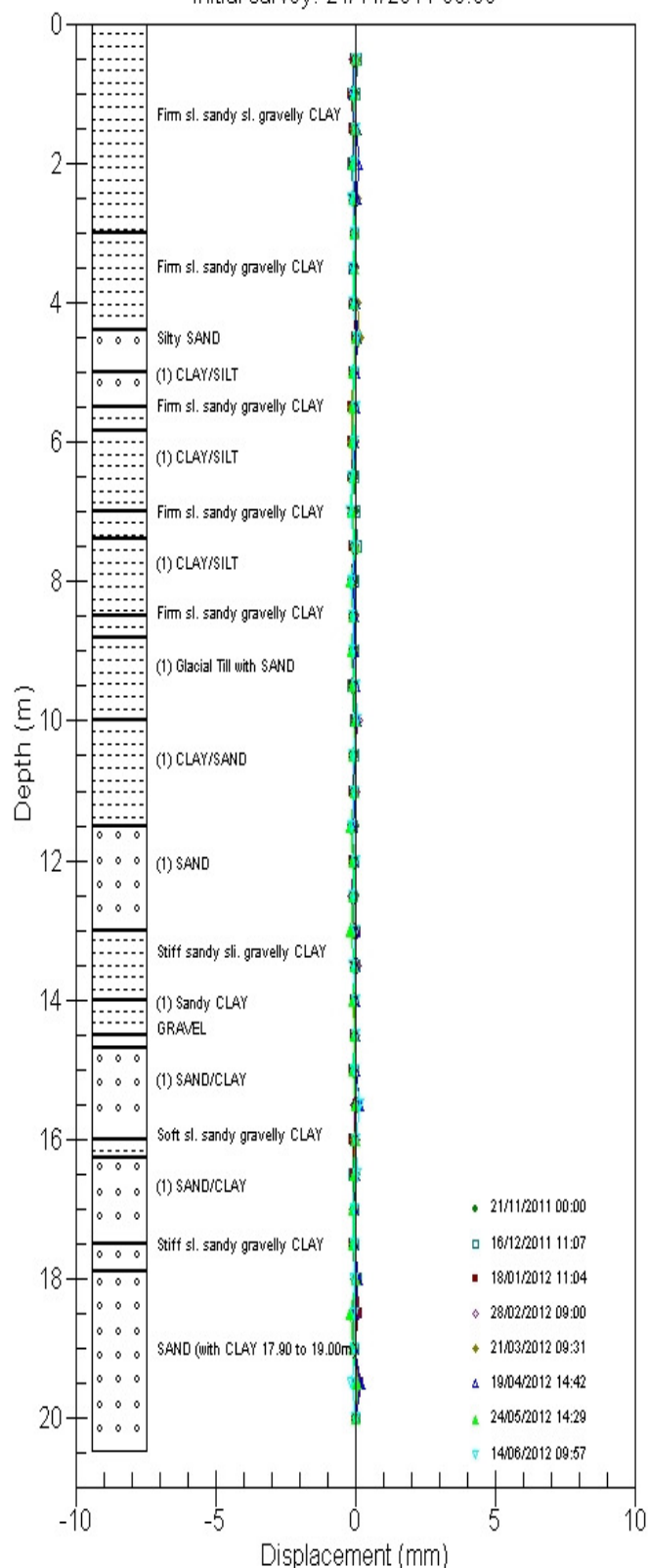
### 3833:BHC2 - A Axis Incremental

Initial survey: 21/11/2011 00:00



### 3833:BHC2 - B Axis Incremental

Initial survey: 21/11/2011 00:00



PROJECT: 3833

SITE: Filey Flat Cliffs: Ground Investigation

INSTALLATION: BH-C2

COMPANY: Allied Exploration & Geotechnics Limited

CLIENT: Scarborough Borough Council

NOTE: Initial Average Survey 21/11/2011 @ 00:00 (from readings taken on 14/11/2011)

(1) Description derived from drillers daily reports.

PROJECT: 3833  
 SITE: Filey Flat Cliffs: Ground Investigation  
 INSTALLATION: BH-C2  
 COMPANY: Allied Exploration & Geotechnics Limited  
 CLIENT: Scarborough Borough Council  
 NOTE: Initial Average Survey 21/11/2011 @ 00:00 (from readings taken on 14/11/2011)  
 (1) Description derived from drillers daily reports.

Incremental Deflection Data in A Axis (mm):

Depth (m)	21/11/2011 00:00 (mm)	16/12/2011 11:07 (mm)	18/01/2012 11:04 (mm)	28/02/2012 09:00 (mm)	21/03/2012 09:31 (mm)	19/04/2012 14:42 (mm)	24/05/2012 14:29 (mm)	14/06/2012 09:57 (mm)
0.5	0.00	0.02	0.08	0.08	0.05	-0.01	0.00	0.02
1.0	0.00	-0.02	0.03	0.01	0.01	0.06	0.03	0.07
1.5	0.00	0.01	0.02	0.03	0.01	0.08	0.02	0.04
2.0	0.00	0.06	0.06	0.08	0.05	0.07	0.08	0.08
2.5	0.00	0.00	0.03	0.04	0.03	0.04	0.02	0.02
3.0	0.00	0.00	0.04	0.00	0.02	0.00	0.02	0.00
3.5	0.00	0.02	0.04	0.00	0.00	-0.01	0.02	0.00
4.0	0.00	-0.03	0.03	-0.01	0.00	-0.01	0.01	0.01
4.5	0.00	0.03	0.01	0.02	0.04	0.02	0.05	0.06
5.0	0.00	0.01	-0.01	-0.02	-0.04	-0.04	-0.03	-0.02
5.5	0.00	0.02	-0.06	-0.08	-0.06	-0.11	-0.16	-0.16
6.0	0.00	0.05	-0.04	-0.06	-0.06	-0.06	-0.11	-0.11
6.5	0.00	0.01	0.02	0.00	0.01	-0.01	-0.04	-0.01
7.0	0.00	0.05	0.00	0.04	0.02	0.05	-0.01	0.02
7.5	0.00	0.05	0.03	0.01	-0.01	0.01	-0.05	-0.03
8.0	0.00	0.00	-0.05	0.01	-0.02	-0.01	-0.07	-0.04
8.5	0.00	0.08	0.03	0.02	0.00	-0.01	-0.04	0.00
9.0	0.00	0.01	0.07	0.01	-0.01	0.00	-0.06	-0.03
9.5	0.00	0.03	0.02	0.03	0.00	0.00	-0.01	0.00
10.0	0.00	0.05	0.15	0.07	0.06	0.09	0.11	0.09
10.5	0.00	0.01	0.05	0.03	0.01	0.01	0.03	0.02
11.0	0.00	0.02	0.08	-0.01	-0.03	-0.05	-0.01	-0.02
11.5	0.00	0.00	0.09	0.00	-0.01	-0.03	0.00	0.00
12.0	0.00	0.01	0.04	0.00	0.00	-0.04	0.01	0.00
12.5	0.00	0.00	0.01	-0.03	-0.03	-0.04	0.01	-0.02
13.0	0.00	0.00	-0.03	-0.02	0.01	-0.01	0.02	-0.01
13.5	0.00	0.01	0.15	0.01	0.04	0.00	0.02	0.05
14.0	0.00	0.03	0.05	-0.01	0.02	-0.01	0.01	-0.03
14.5	0.00	-0.02	0.05	0.00	0.00	-0.02	0.00	-0.02
15.0	0.00	0.03	0.04	0.02	0.05	0.04	0.03	0.03
15.5	0.00	0.03	0.05	0.01	0.02	0.04	0.01	0.00
16.0	0.00	0.02	0.07	-0.01	-0.02	-0.02	-0.05	-0.02
16.5	0.00	0.00	-0.06	-0.01	-0.02	-0.04	-0.05	0.03
17.0	0.00	-0.05	-0.08	0.00	-0.05	-0.02	-0.08	0.01
17.5	0.00	-0.01	-0.02	0.04	0.01	0.04	-0.01	0.05
18.0	0.00	0.01	-0.03	0.03	-0.02	0.05	-0.02	-0.03
18.5	0.00	0.03	0.02	0.03	-0.03	0.02	-0.02	-0.02
19.0	0.00	0.02	0.07	0.03	-0.02	0.02	-0.01	0.01
19.5	0.00	0.04	-0.08	0.03	0.02	-0.10	0.05	0.25
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PROJECT: 3833  
 SITE: Filey Flat Cliffs: Ground Investigation  
 INSTALLATION: BH-C2  
 COMPANY: Allied Exploration & Geotechnics Limited  
 CLIENT: Scarborough Borough Council  
 NOTE: Initial Average Survey 21/11/2011 @ 00:00 (from readings taken on 14/11/2011)  
 (1) Description derived from drillers daily reports.

Incremental Deflection Data in B Axis (mm):

Depth (m)	21/11/2011 00:00 (mm)	16/12/2011 11:07 (mm)	18/01/2012 11:04 (mm)	28/02/2012 09:00 (mm)	21/03/2012 09:31 (mm)	19/04/2012 14:42 (mm)	24/05/2012 14:29 (mm)	14/06/2012 09:57 (mm)
0.5	0.00	0.07	-0.02	-0.07	0.05	0.00	0.03	0.04
1.0	0.00	0.01	-0.13	-0.10	-0.08	-0.07	-0.05	-0.08
1.5	0.00	-0.03	-0.05	-0.08	-0.04	0.08	0.03	0.00
2.0	0.00	-0.10	-0.09	-0.07	-0.02	0.13	-0.06	-0.05
2.5	0.00	-0.06	-0.08	-0.03	0.05	0.06	-0.08	-0.12
3.0	0.00	-0.02	-0.02	-0.04	-0.02	-0.02	-0.05	-0.01
3.5	0.00	-0.05	-0.01	-0.02	-0.05	-0.09	-0.04	-0.05
4.0	0.00	-0.06	-0.07	-0.01	0.08	0.04	-0.03	-0.08
4.5	0.00	0.10	0.03	0.10	0.17	0.08	0.05	0.08
5.0	0.00	-0.02	-0.07	0.00	-0.07	0.00	-0.06	-0.03
5.5	0.00	-0.06	-0.13	-0.05	-0.13	0.02	-0.08	0.01
6.0	0.00	-0.07	-0.10	-0.04	-0.11	-0.04	-0.09	-0.03
6.5	0.00	-0.03	-0.12	-0.08	-0.09	-0.08	-0.09	-0.10
7.0	0.00	0.02	-0.13	-0.12	-0.12	-0.13	-0.10	-0.16
7.5	0.00	0.09	-0.06	-0.02	-0.03	0.04	0.02	-0.02
8.0	0.00	-0.02	-0.12	-0.12	-0.11	-0.07	-0.16	-0.12
8.5	0.00	-0.07	-0.09	-0.05	-0.06	-0.02	-0.09	-0.05
9.0	0.00	-0.04	-0.06	-0.06	-0.04	-0.04	-0.10	-0.07
9.5	0.00	-0.12	-0.05	-0.06	-0.07	0.03	-0.08	0.01
10.0	0.00	-0.04	0.00	0.11	0.00	0.05	0.02	0.05
10.5	0.00	-0.04	-0.07	-0.08	-0.09	-0.09	-0.08	-0.07
11.0	0.00	-0.02	-0.06	0.00	-0.02	-0.01	-0.01	-0.02
11.5	0.00	-0.06	-0.11	-0.06	-0.10	-0.06	-0.17	-0.10
12.0	0.00	-0.03	-0.07	-0.05	-0.05	-0.03	-0.07	0.01
12.5	0.00	-0.07	-0.09	-0.11	-0.08	-0.07	-0.09	-0.07
13.0	0.00	0.00	0.06	-0.03	-0.06	0.04	-0.18	0.01
13.5	0.00	0.03	-0.03	0.05	0.05	0.04	0.00	-0.05
14.0	0.00	-0.01	-0.04	-0.01	-0.02	0.01	-0.06	0.02
14.5	0.00	-0.02	-0.01	-0.01	0.00	0.03	-0.03	0.00
15.0	0.00	-0.01	-0.07	-0.03	-0.01	0.00	-0.07	-0.01
15.5	0.00	0.05	0.07	-0.03	0.08	0.18	0.01	0.16
16.0	0.00	-0.01	-0.09	0.03	-0.04	0.03	0.02	0.02
16.5	0.00	-0.06	-0.04	-0.05	0.01	0.03	0.00	0.09
17.0	0.00	-0.02	-0.03	-0.05	-0.05	-0.02	-0.08	-0.03
17.5	0.00	-0.01	-0.05	-0.06	-0.09	-0.01	-0.08	-0.01
18.0	0.00	0.10	0.08	0.03	-0.04	0.11	0.05	-0.02
18.5	0.00	-0.02	0.13	0.07	-0.08	-0.02	-0.15	-0.03
19.0	0.00	-0.03	-0.03	-0.10	-0.08	-0.01	-0.08	-0.03
19.5	0.00	0.08	0.17	0.11	0.13	0.21	0.07	-0.12
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00