

Kiwa CMT Testing

Addendum Ground Gas Monitoring Report

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Report Number 77373/57629

Site:

Land off Chewton Street
Eastwood
Nottingham

Date: 24th May 2019

**Trust
Quality
Progress**

Client Information

Broxtowe Borough Council
Town Hall
Foster Avenue
Nottingham
NG9 1AB

Date: 21.05.2019 **Originator:** Ryan Dawson
Order Ref: FIN0001289 **Our Ref:** 57629

Site Location Information:
Land off Chewton Street, Eastwood.

Document Control

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1.0 Client

1.1 The Client is Broxtowe Borough Council.

2.0 Scope of Works

2.1 To continue to monitor the installed gas monitoring points for another 13No. monitoring visits between 23/11/2018 and 26/04/2019.

3.0 Site Work

3.1 Site work was carried out between by 23/11/2018 and 26/04/2019 KCMT.

3.2 The report is an addendum to KCMT Report Number 73336/57629 dated January 2019.

3.3 It should be noted that there were several occasions where the boreholes were flooded due to heavy rain and poorly drained soils.

4.0 Boreholes

4.1 The boreholes of the monitoring locations are shown in the Field Zone map below. Logs for the Boreholes, Trial Pits, their maps, and the Monitoring Results are included within the appendices of this document.



Figure 4.1 Field Zones of the Eastwood Site.

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4.2 The previous report and monitoring exercise showed the following highlights:

Borehole	CO ₂ (%v/v)	GSV CO ₂	CH ₄ (%v/v)	GSV CH ₄	O ₂ + N ₂ Balance (%v/v)
BH#3	6.2	0.0062	0.1	0.0001	93.7
BH#4	5.0	0.0050	0.1	0.0001	94.9
BH#7 Peak	4.0	0.0040	85.4	0.0854	10.6
BH#7 Stabilised	1.0	0.0010	3.3	0.0033	95.7

Table 4.1 Results Exceedances from 16.04.19 to 21.09.19.

4.3 The table below highlights the exceedances of CO₂ (5.0%v/v) and CH₄ (1.0%v/v) during this phase of works:

Date	CH ₄	CO ₂	Flow (L/hr)	mBar
23/11/2019	BH#7 (4.5)	-	<0.1	1003
07/12/2019		BH#3 (5.4)	<0.1	987
03/01/2019	BH#7 (4.9)		<0.1	1031
18/01/2019	BH#7 (5.4)		<0.1	1003
23/01/2019	BH#7 (3.9)		<0.1	992
15/02/2019	BH#7 (5.1)		<0.1	1015
01/03/2019	BH#7 (3.5)		<0.1	1008
29/03/2019	BH#7 (4.1)		<0.1	1019
12/04/2019	BH#7 (6.2)		<0.1	1018
26/04/2019	BH#7 (2.8)		<0.1	998

Table 4.2 Exceedances of Threshold Concentrations

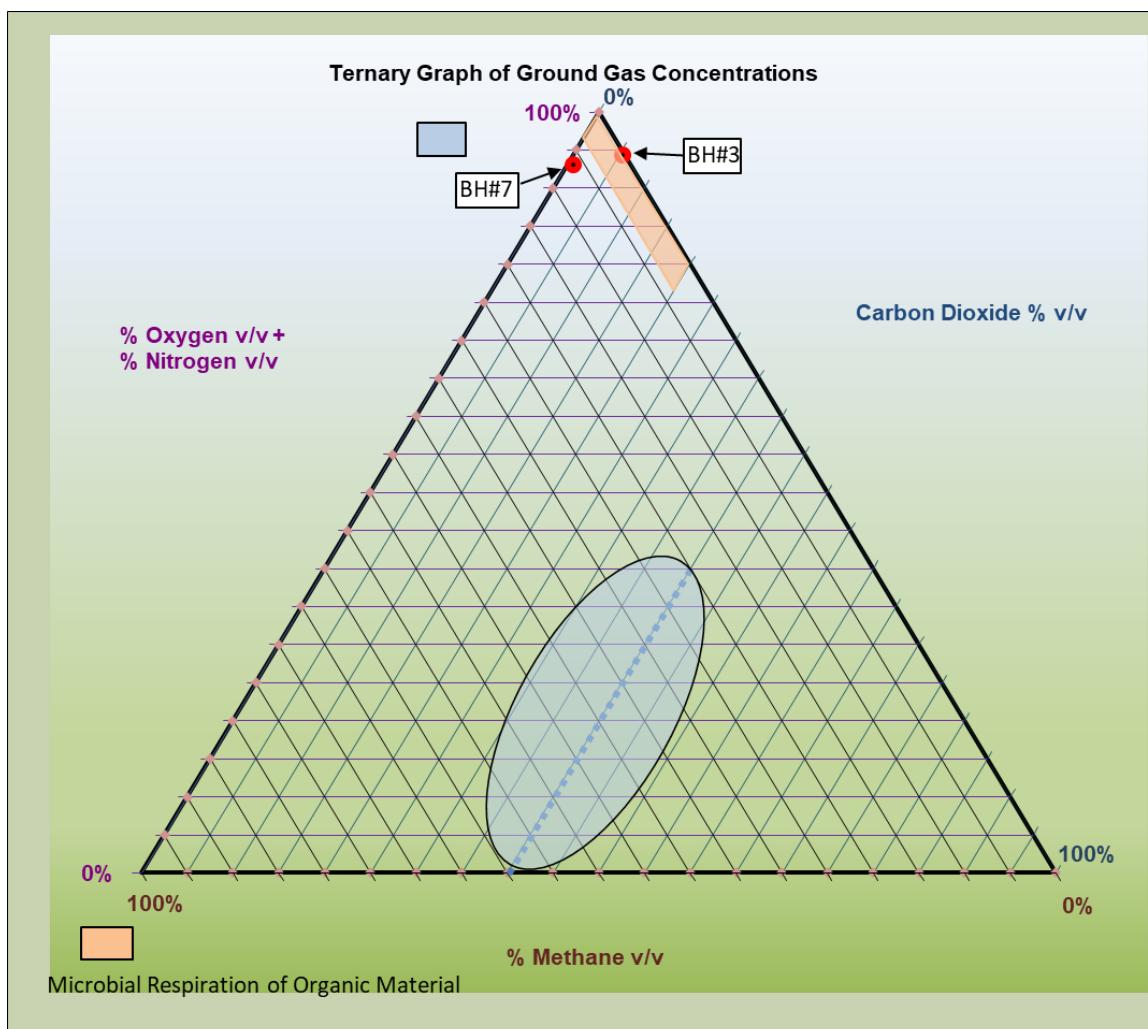


Figure 4.2 Ternary Graphical Plot of Readings for BH#3 and BH#7

- 4.4 The results show that the concentrations of gas are fluctuant and with no defined tendency to be related to the barometric pressure at the time of measurement.
- 4.5 As such the subsequent monitoring (all results presented in the appendices) showed the following peak exceedances of CO₂ (5.00%) and CH₄ (1.00%):

Borehole	CO ₂ (%v/v)	GSV CO ₂	CH ₄ (%v/v)	GSV CH ₄	O ₂ + N ₂ Balance (%v/v)
BH#3	5.4	0.0054	0.2	0.0002	94.4
BH#7	0.7	0.0007	6.2	0.0062	93.1

Table 4.3 Results Assessment on results obtained from 23.11.18 to 26.04.19.

- 4.6 Note: The Gas Screening Values have been calculated from GSV = (Concentration x Flow)/100.
- 4.7 Borehole #4 showed no further exceedance of CO₂ from the previous monitoring exercise.
- 4.8 Borehole #3 showed only 1No. further exceedance of CO₂ at 5.4% on 07.12.18 with, again, no appreciable flow rate. The consideration of the gas concentrations in Borehole #3 are still consistent with microbial influence.
- 4.9 Borehole #7 showed continued fluctuation of CH₄ where readings fluctuated between 0.6%v/v and 6.2%v/v with no appreciable flow rate ascribed to the borehole (0.1L/hr).

5.0 Monitoring Results - Overview

- 5.1 The full sets of monitoring results are presented in the appendices.
- 5.2 The monitoring exercise showed that the values at Borehole BH#3 was above 5.0% v/v CO₂ on one occasion. These values can be attributed to various types of organic material decay as indicated by the ternary plot (in accordance with Wilson et al., 2018). The flow rate is particularly low and the GSVs are calculated as per the table above using 0.1L/hr as the flow rate.

Borehole (BH#)	Field Zone	Depth (m)	Response Zone
1	A	4.25	Mudstone/Coal
2	A	4.25	Clay/Weathered Mudstone
3	A	4.20	Mudstone/Coal
15	A	4.20	Clay/Mudstone/Coal
4	A	4.80	Mudstone/Coal
17	A	4.30	Clay/Shale/Mudstone
5	A	4.30	Mudstone/Coal
18	B	4.25	Clay/Mudstone
14	B	3.60	Clay/Mudstone
6	B	4.25	Weathered Mudstone/Mudstone
7	B	4.20	Clay/Shale/Coal/Mudstone
8	C	4.30	Weathered Mudstone/Mudstone
19	C	4.40	Clay/Mudstone
16	C	18.47	Mudstone
20	C	3.20	Sandstone/Siltstone
9	D	3.30	Clay/Sandstone/Siltstone
10	D	4.30	Clay/Sandstone/Mudstone
11	D	3.25	Clay/Siltstone
21	D	Destroyed	n/a
12	D	3.70	Clay/Sandstone/Mudstone/Coal
22	E	3.50	Mudstone/Coal
13	E	5.25	Mudstone/Siltstone

Table 5.1 Response Zones for Ground Gas Monitoring

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- 5.3 BH#7 (clay carrying very broken shale and coal) exceeded the 1.0%v/v threshold for Methane.
- 5.4 There were a number of occasions that after heavy rain the boreholes, in most if not all, in Field Zone B were flooded. This was also true for BH#1 in Field Zone A, BH#19 in Field Zone C, BH#11 in Field Zone D and also, less frequently, BH#12 in Field Zone D.

6.0 Classification of Results

- 6.1 The table below classifies the results to the information presented in BS8485:2015.

Borehole	GSV CO ₂	GSV CH ₄	CS Value	Notes
BH#3	0.0054	0.0002	CS1	The values are predominantly below 1% Methane and 5% Carbon Dioxide. Flow rates are negative and it is not considered that the flow rate or concentrations of gas are problematic, however, considering the sensitive nature of the site and the history of the sites in close proximity, it would be sensible to provide an additional level of protection with regard to the ground gas and as such a CS2 level of protection is advised for this area (Zone A).
BH#7	0.0007	0.0062	CS2	<p>Due to the fluctuant nature of the Methane concentrations within the vicinity of BH#7 it is recommended that a developer would consider ground gas monitoring at a higher resolution in order to further delineate the area (Zone B/C). Current delineation is noted by the notably low values within BH#6 and BH#14 (Zone B) and BH#8 (Zone C).</p> <p>Another option is to consider alternative uses of this locality, e.g. as Public Open Space, Commercial Buildings (Type C or Type D Buildings; BS8485:2015)</p> <p>Due to the value of Methane at Peak Value being significant consideration regarding protective measures to the work force carrying out any earthworks in this area needs to be given. Oxygen and Methane is a potentially combustible source where levels allow, e.g. 15% v/v methane in air. Although this value is variable depending upon environmental conditions.</p> <p>Due to the low flow rate increasing to CS3 is not considered at this juncture.</p>

Table 6.1 Characteristic Gas Situation Classification

Borehole	GSV CO ₂	GSV CH ₄	CS Value	Hazard Potential (BS8485)	Variable Exceedances	Conclusion
BH#3	0.0054	0.0002	CS1	Very Low	Variable Exceedances of BH#3 and BH#4 over 12 months.	Increase to CS2 for safety, see table 6.1.
BH#7	0.0007	0.0062	CS2	Low	Exceedance of Methane thresholds, however, very low flow rate.	CS2 and see table 6.1.

Table 6.2 Notes on Characteristic Situation Classification

7.0 Discussion of Results

- 7.1 The end use of the site was considered at the outset to be attributed to a largely RESIDENTIAL end use.
- 7.2 The results presented from Borehole BH#7 are the results of concern and show a potential LOW risk to human health after comparison to BS8485:2015.

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- 7.3 The initial results in BH#7 showed a significantly elevated Methane concentration that decreased substantially and steadied at levels of approximately 3 to 6% v/v concentration but all with a very low flow rate that does not appear to be correlated to barometric pressure fluctuations. Graphical representation of the concentration change over time is presented in the graph below:

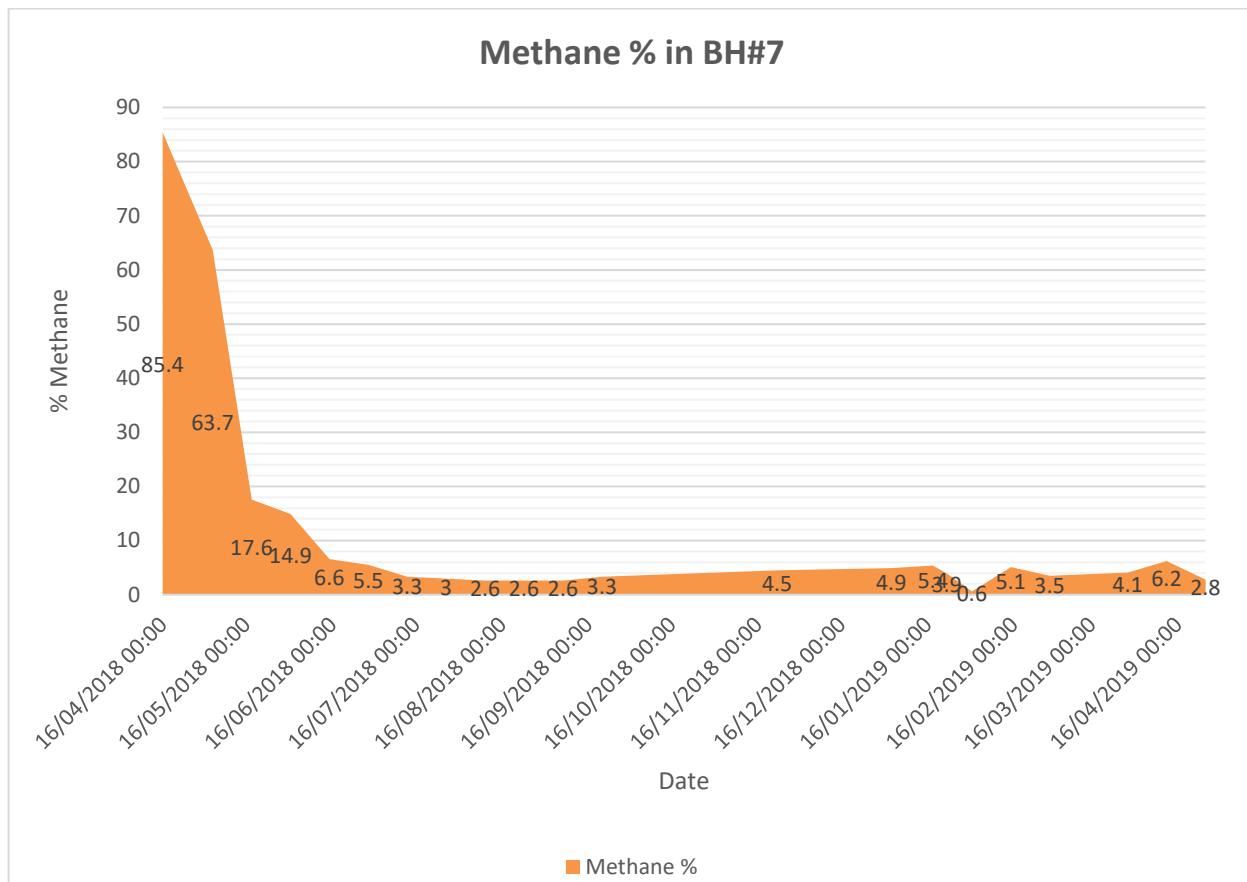


Figure 7.1 Methane Concentration in BH#7 over time

- 7.4 The fact that no flow rate is noted suggest an intrinsic source of pocketed and trapped soil gas (likely in the clay-thin bands of coal-shale horizon; @ 1.20-2.40mbgl; see logs) with slow ventilation to the atmosphere over a period of c. 8 weeks. After this the level has varied between 0.6% and 6.6% v/v Methane, with no notable flow rate (either <0.1L/hr or at 0.1L/hr). The lithology was particularly carbonaceous with fragmented coals and shales. There is a strong argument for this deduction/correlation and further investigation may confirm this (or otherwise). The coals in this area were significantly more "dirty" (less bright and hard) than the coals found in Field Zone A (taken to be Waterloo coals).
- 7.5 With no contamination being found in the soils on the site there were two considerations [regarding "land affected by contamination"] left for development and one of those was the concentration of ground gases and the required solutions for a typical housing development. The other being investigation for coal seams, voids and workings which was not part of the scope for this investigation but remains to be completed once a developer has determined the likely spatial distribution of buildings.
- 7.6 The ground investigation showed a site that would withstand, in general, traditional founding solutions for residential development and as such the response zone for ground gas migration is typically limited to the top 2.00-3.00m.
- 7.7 The response zones for the ground gas investigation typically centred around the 2.00-4.00m depth requirement for such foundations.
- 7.8 Although the site is in close proximity to the former Eastwood landfills there was no apparent impact from them that resulted in significantly elevated concentrations across the site or in any field in

particular. Flow rates of ingressing gases were shown to be particularly low and in general, very low in concentration and thus unattributable to landfill gas generation (see Figure 4.2).

- 7.9 In many cases there were negative flow rates observed and this was apparent in the opening of the boreholes as one could feel the suction within the boreholes, this is largely attributed to physics and the flow of water down gradient which will drag the air with it.
- 7.10 There are no concerns with regard to ground gas in Fields Zone A (see note below), D and E.
- 7.11 For Field Zone A the only exceedance is that presented in BH#3 and if the CS2 solutions are installed correctly then that would, according to BS8485:2015, suffice.
- 7.12 Field zones D and E should be considered to be of Ground Gas Characteristic Situation CS1 in accordance with BS8485:2015+A1 2019. However, a prudent developer would consider the installation and use of a largely inexpensive CS2 protective system due to the local perception of the site.
- 7.13 For Field Zones B and C the only exceedance is that which is noted in BH#7. This could well be due to the significant amount of fragmented shale and coal present as there is no apparent flow rate attributed to the borehole and the results appear to be largely independent of barometric fluctuations.
- 7.14 The assessment shows the GSV to be particularly low and to be commensurate with a CS2 classification, however, there is clearly a perceived risk with the location relating to the concentration of methane.
- 7.15 Presently this area is delineated by BH#6 (to the west), BH#14 (to the north) and BH#8 (to the east) as presented in Figure 7.2 below. It would seem to be possible to reduce this further as the Trial Pits TP#13, TP#6, and TP#16 do not show the same carbonaceous lithology. TP#16 shows weathered mudstone with (yellow) sandy pockets (possibly from the underlying sandstone). TP#6 shows yellow clays above the sandstone horizon and contains little to no carbonaceous material. TP#13 also shows weathering from sandstone horizons and there is also little carbonaceous material associated with this location.

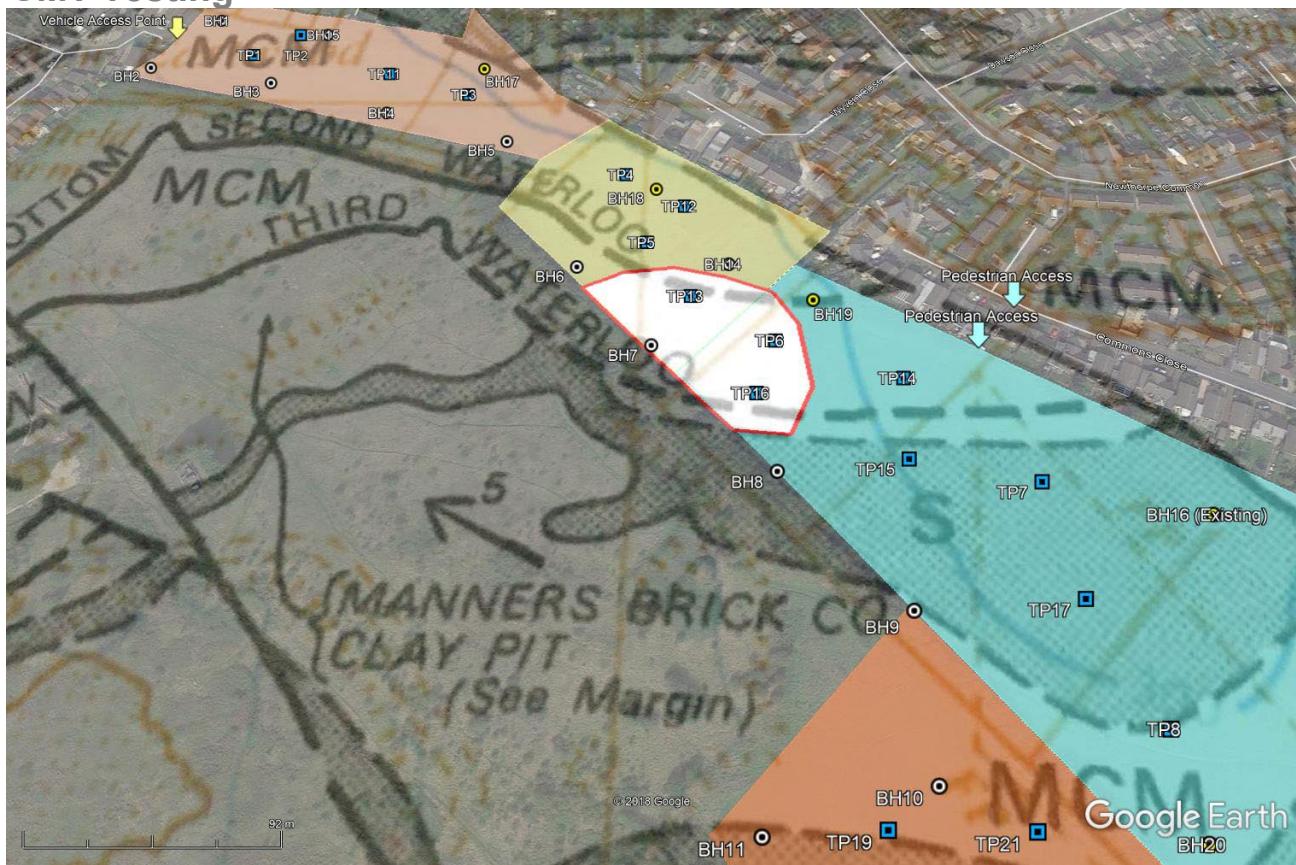


Figure 7.2 Approximated zone surrounding BH#7 (white) that presently requires further consideration

- 7.16 Over the monitoring period the levels of methane in the borehole appear to have steadied around the 3-6% v/v concentration with no flow notable rate.
- 7.17 This suggests that the area needs further investigation or could be assigned to uses other than residential, such as less sensitive building Types (as per BS8485), although there will still be a requirement for the installation of applicable protective measures relating to CS2.
- 7.18 There is of course the option of further investigation by a developer to delineate the extent of methane around BH#7 by means of more gas monitoring on a tighter grid and increasing the resolution of monitoring points within similar response zones.

8.0 Concluding Remarks

- 8.1 The site in general should be considered fit for the proposed Residential end use with due consideration given to protective measures (or further investigation) in and around the area of BH#7.
- 8.2 No contamination has been shown to be present in the soil horizons (as per report 73336/57629).
- 8.3 The overall monitoring exercise showed that the vast majority of the site is considered as a CS1 LOW RISK Characteristic Ground Gas Situation with notably low flow rates of gas across all field zones with the exception of the area in proximity to BH#7.
- 8.4 There is no identifiable evidence of the ingress of "landfill gas" from the adjacent (and old) former Eastwood landfills.
- 8.5 From the observations and the evidence presented there is no suggestion of risk presented by the former landfills that relate to ground gas migration into the expected foundation response zones. This holds true for all boreholes, including the ones positioned on the boundary between the site and the former landfill.



Figure 8.1 Green Area shows the general CS1 area (Green) and that relating to BH#7 (White).

- 8.6 The exercise was conducted with the response zone assigned as between c. 2.00-4.00m (varying geology being: underlying natural clays, weathered mudstone, mudstone, sandstone, siltstone) for the ground gas which would relate to ingress into most foundation solutions at the site. The exercise shows predominantly naturally occurring gases from biodegradation of organic materials.
- 8.7 Although there is no apparent risk presented by the former landfill it would seem sensible to impose an arbitrary "stand-off" zone of approximately 5.00m for development of housing, however, such a zone could be used for the provision of garden zones.

9.0 Further Work

- 9.1 Prior to development there is further work to be carried out, notably the desk and intrusive investigation of shallow coal seams and workings.
- 9.2 Other further work may include a further gas monitoring exercise in the vicinity of BH#7. There are also options to reserve this area for alternative land uses.
- 9.3 Provision of a development stand-off zone for c.5.00m from the boundary of the site and the landfill is a suggested option due to the local perception of the issue with the former Eastwood landfills. However, such a stand-off zone would seem a suitable measure to introduce another level of protection for the end users of the site even though (strictly speaking) the evidence suggests there is no issue.

10.0 Limitations

- 10.1 This report is prepared on behalf of the client and should only be used by the client and its contractors/subcontractors.
- 10.2 The use or assignment of this report, either in its entirety or in any part, is expressly prohibited unless payment is received by Kiwa CMT within the agreed credit period.
- 10.3 The report is produced solely for the benefit of The Client and their professional advisors, no liability is accepted for any reliance placed upon it by any other party unless expressly agreed in writing with Kiwa CMT Testing.
- 10.4 The copyright of this report and relating documents prepared by Kiwa CMT are owned by them. No such report plan or document may be produced, published or altered without the written permission of Kiwa CMT Testing.
- 10.5 The report and opinions have been prepared for the specific purpose stated within the document. The recommendations should not be extrapolated for other uses on or adjacent to the site or for other schemes without reference and agreement in writing with Kiwa CMT Testing. Opinions and interpretations are not covered by Kiwa CMT scope of UKAS accreditation.
- 10.6 The report will be based on observations, environmental conditions and information (such as physical conditions within boreholes, monitoring results and chemical analyses) that are by their nature interpretative and interpolated. Variations are likely to be present appertaining to the site which may not be revealed by documentation and/or investigation and which, subsequently, may not be taken into account.
- 10.7 Whilst the report may express an opinion on the nature of environmental conditions provided by GIS databases and written, anecdotal, published and pictorial (cartographic, photographic, etc.) there can be no liability for accuracy accepted by Kiwa CMT Testing.
- 10.8 Kiwa CMT Testing have employed the HazWaste Online™ Tool to provide a level of assessment of the results. Kiwa CMT Testing cannot take any liability for the validity of the third party assessment tool and assume that all information provided by OneTouch Data is correct.
- 10.9 If sampled by Kiwa CMT Testing then the sampling will be carried out with the relevant care and diligence in order to obtain a representative sample of the material.
- 10.10 If the sample is supplied then Kiwa CMT Testing have had little to no control over the sampling and it is assumed that the client has provided Kiwa CMT Testing with a representative sample of the bulk material. Kiwa CMT Testing cannot be held accountable for third party sampling and always recommend independent sampling. Where Kiwa CMT Testing have recommended particular investigative techniques, to be supplied by the client/3rd party, and these have not been adhered to, Kiwa CMT Testing do not take responsibility for misrepresentation of the materials.
- 10.11 Samples are stored in suitable containers for the various requirements of testing.
- 10.12 Unless otherwise directed Kiwa CMT Testing will assume a normal scenario for the composition of the material and no consideration is given to specialist contamination unless we are aware (e.g. via provided documentation, desk study, other intrusive works, etc.) that due consideration is required for deviation from the normal expected mineralogical content of soil.
- 10.13 The assessment is carried out on the analytical results that are presented in the appendices. It is assumed that the results are representative, or as representative as possible, of the material analysed. Results may not be representative where the material may be significantly heterogeneous in nature.

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- 10.14 Assessment is not solely based on chemical criteria and further assessment of the material is likely to occur at the point of use, including visual observation and possibly the employment of validation testing.
- 10.15 All analysis is carried out in a UKAS and MCERTS accredited laboratory 4225 that comply to ISO 17025. All records are retained in our system and are available upon request.
- 10.16 Ground/stockpile conditions are highly variable and although Kiwa CMT Testing make best efforts to obtain representative samples there is always a possibility of uncovering contamination previously identified. If this is the case then further testing is likely to be required on any previously undiscovered materials, e.g. such as asbestos, oil contamination, liquids, etc. This report does not include, or account for, such unidentified contamination and any additional materials will require characterising and assessing and are not covered by this report.
- 10.17 Where asbestos type minerals have been identified as free and dispersed fibres within the matrix of the soils the waste is not considered to be mixed, it is considered to be a single stream of waste with no separable components.
- 10.18 Where asbestos is in the form of ACMs (e.g. lagging, board, tile, etc.) the waste stream is considered to be a mixed waste stream and the concentration of asbestos in each ACM is considered to be >0.1%.

Appendix 1

Site Plan and Borehole Locations



Google Earth

© 2018 Google

Appendix 2

Borehole Logs



Borehole Log

Borehole No.

BH#1

Sheet 1 of 1

Project Name: Eastwood Landfill

Project No.
57629

Co-ords: 446785.96 - 346044.25

Hole Type
CP

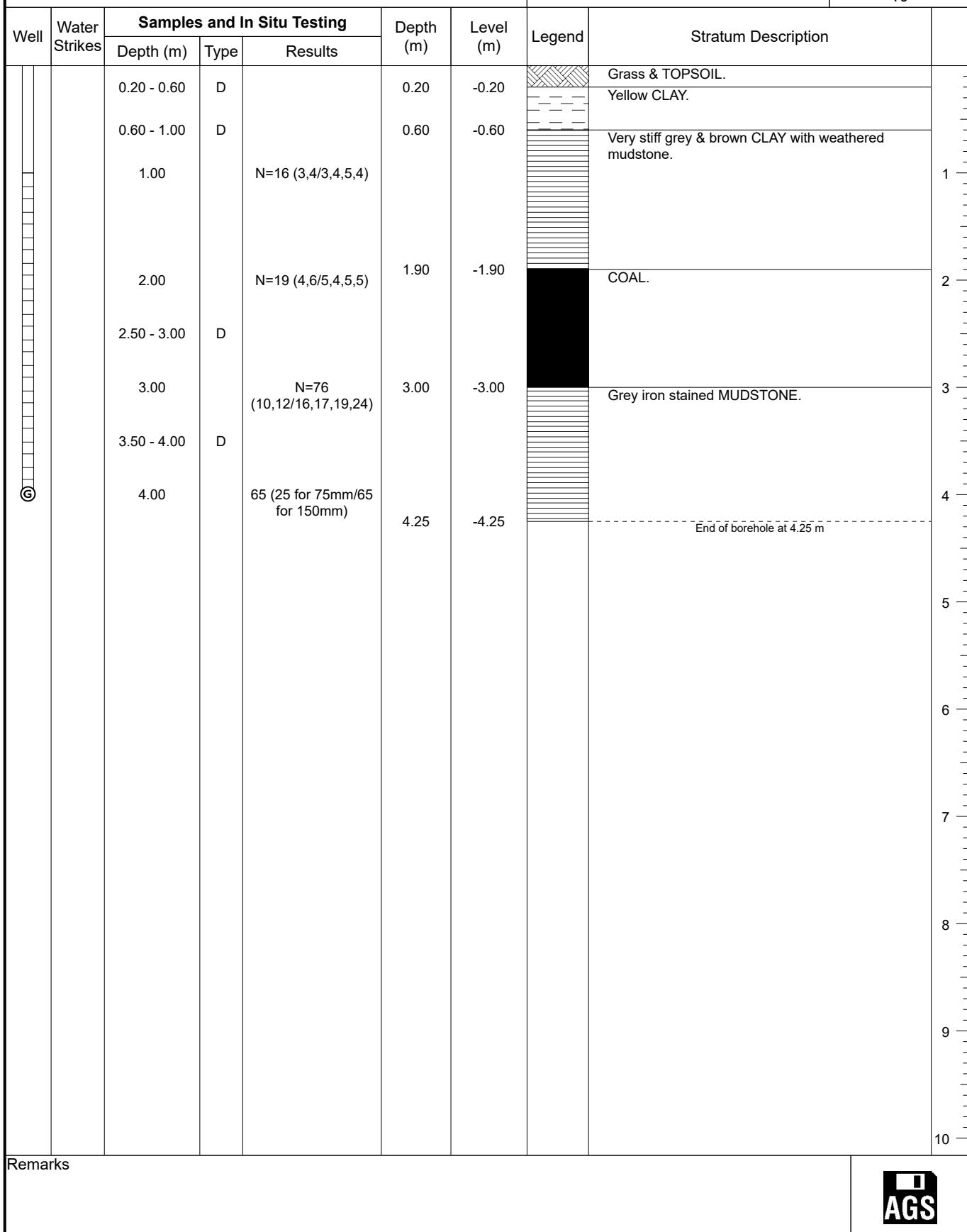
Location: Eastwood Landfill, Nottinghamshire

Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council

Dates: 26/03/2018 - 26/03/2018

Logged By
TJ



Borehole Log

Borehole No.

BH#2

Sheet 1 of 1

Project Name: Eastwood Landfill

Project No.
57629

Co-ords: 446756.67 - 346013.22

Hole Type
CP

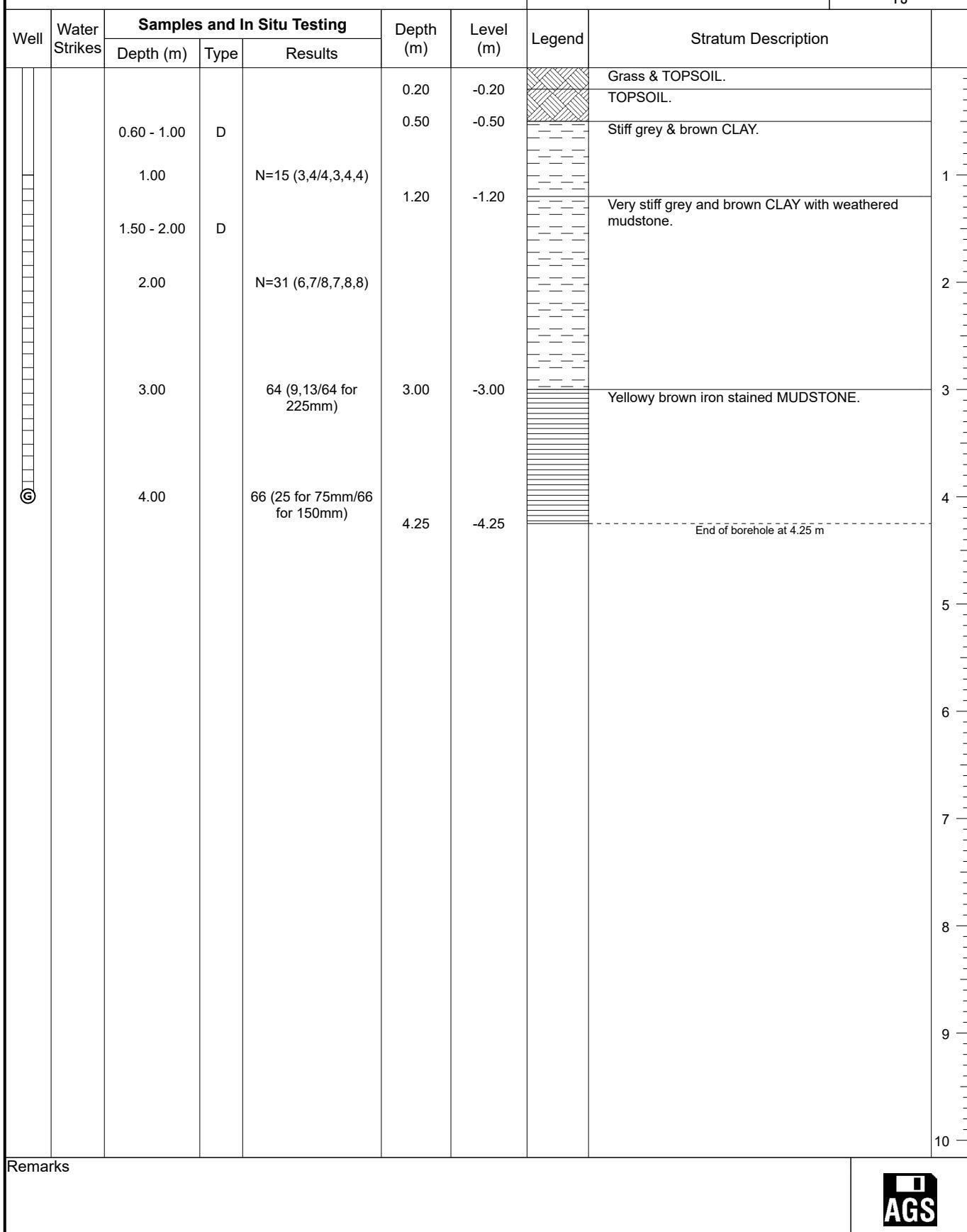
Location: Eastwood Landfill, Nottinghamshire

Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council

Dates: 26/03/2018 - 26/03/2018

Logged By
TJ



Borehole Log

Borehole No.

BH#3

Sheet 1 of 1

Project Name: Eastwood Landfill

Project No.
57629

Co-ords: 446818.00 - 346002.80

Hole Type
CP

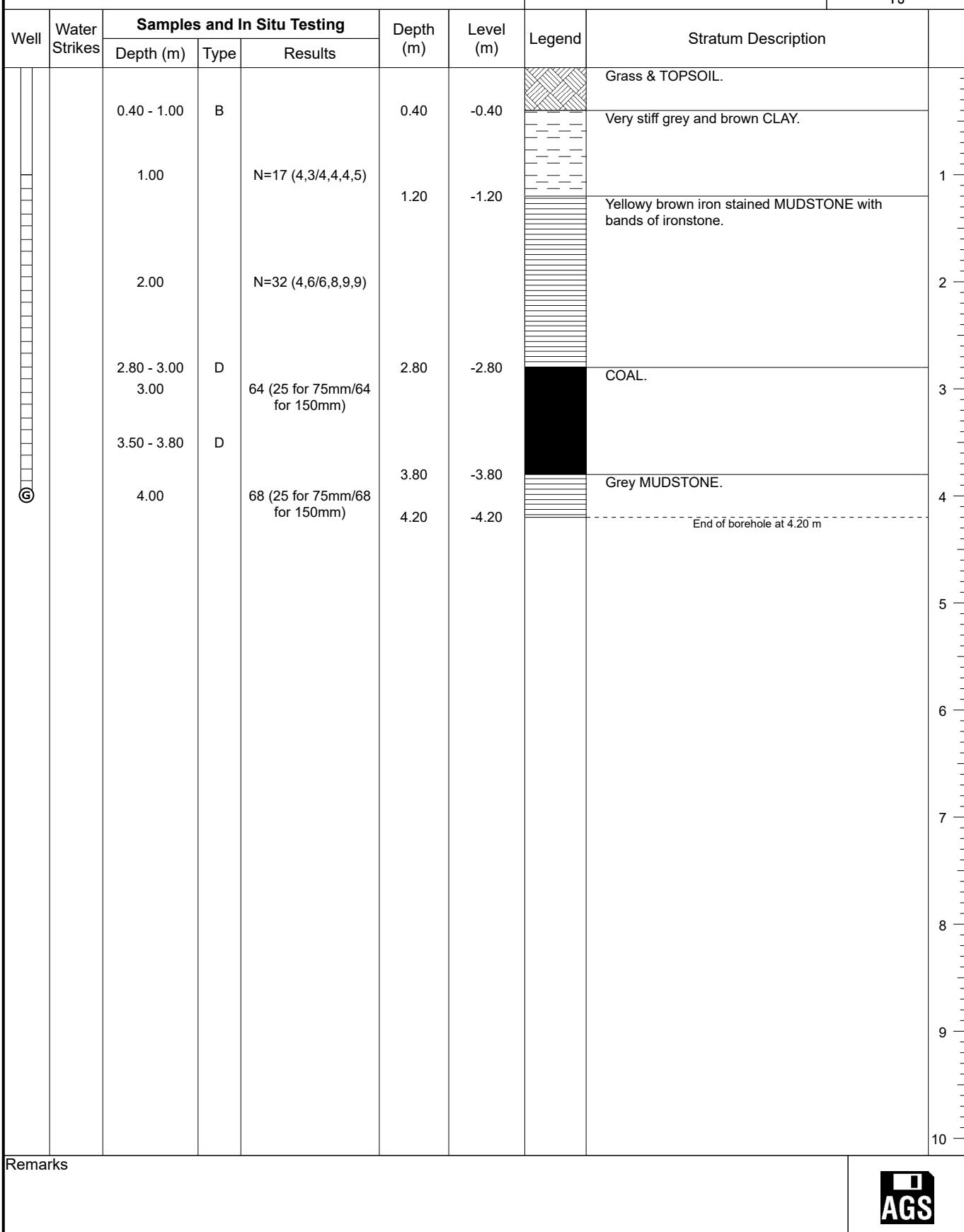
Location: Eastwood Landfill, Nottinghamshire

Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council

Dates: 27/03/2018 - 27/03/2018

Logged By
TJ



Borehole Log

Borehole No.

BH#4

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 446877.13 - 345985.15			Hole Type CP
Location: Eastwood Landfill, Nottinghamshire						Level: 0.00			Scale 1:50
Client: Broxtowe Borough Council						Dates: 28/03/2018 - 28/03/2018			Logged By TJ
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40 - 1.00	D		0.40	-0.40		Grass & TOPSOIL.	
		1.00		N=17 (4,4/5,4,4,4)				Very stiff grey & brown CLAY with mudstone.	
					2.30	-2.30			
		3.00		N=35 (7,8/9,8,9,9)				Grey MUDSTONE.	
		3.80 - 4.00	D	66 (10,15/66 for 150mm)	3.80	-3.80		COAL.	
		4.00							
		4.40 - 4.60	D	66 (25 for 75mm/66 for 125mm)	4.80	-4.80		End of borehole at 4.80 m	
Remarks									



Borehole Log

Borehole No.

BH#5

Sheet 1 of 1

Project Name: Eastwood Landfill

Project No.
57629

Co-ords: 446936.64 - 345968.22

Hole Type
CP

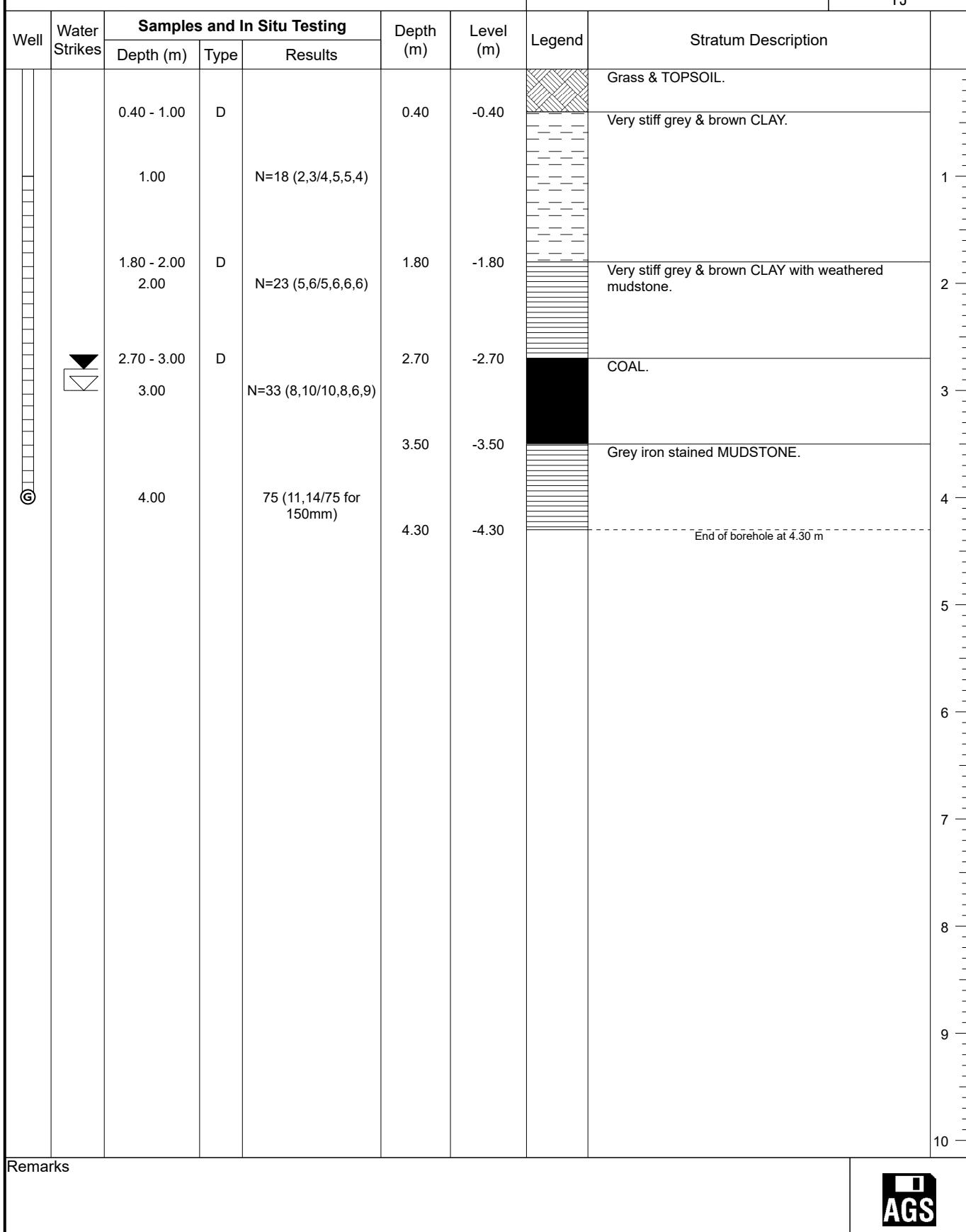
Location: Eastwood Landfill, Nottinghamshire

Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council

Dates: 28/02/2018 - 28/02/2018

Logged By
TJ



Borehole Log

Borehole No.

BH#6

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 446972.75 - 345901.58			Hole Type CP
Location: Eastwood Landfill, Nottinghamshire						Level: 0.00			Scale 1:50
Client: Broxtowe Borough Council						Dates: 29/03/2018 - 30/03/2018			Logged By TJ
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40 - 1.00	D		0.30	-0.30		Grass & TOPSOIL.	
		1.00		N=18 (4,4/4,4,5,5)	1.00	-1.00		Reworked black, yellow & grey CLAY with coal.	
		1.80 - 2.00	D		1.40	-1.40		Very stiff grey & brown CLAY.	
		2.00		N=28 (5,6/7,6,7,8)				Grey MUDSTONE with ironstone.	
		3.00		67 (10,15/67 for 150mm)					
	④	4.00		69 (25 for 75mm/69 for 150mm)	4.25	-4.25		End of borehole at 4.25 m	
Remarks									



Borehole Log

Borehole No.

BH#7

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447007.56 - 345862.56			Hole Type CP
Location: Eastwood Landfill, Nottinghamshire						Level: 0.00			Scale 1:50
Client: Broxtowe Borough Council						Dates: 30/03/2018 - 30/03/2018			Logged By TJ
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 - 1.00	D		0.30	-0.30		Grass & TOPSOIL.	
		1.00		N=19 (4,5/6,4,4,5)	1.20	-1.20		Very stiff grey & brown CLAY.	
		1.60 - 2.00	D					Very stiff grey & brown CLAY with mudstone & thin bands of coal & shale.	
		2.00		N=38 (7,9/10,9,9,10)	2.40	-2.40			
		2.60 - 3.00	D					Yellow & grey iron stained MUDSTONE.	
		3.00		63 (10,15/63 for 150mm)					
	④	4.00		73 (25 for 75mm/73 for 125mm)	4.20	-4.20		End of borehole at 4.20 m	
Remarks									



Borehole Log

Borehole No.

BH#8

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447059.54 - 345804.69			Hole Type CP
Location: Eastwood Landfill, Nottinghamshire						Level: 0.00			Scale 1:50
Client: Broxtowe Borough Council						Dates: 03/04/2018 - 03/04/2018			Logged By TJ
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 - 1.00	D		0.30	-0.30		Grass & TOPSOIL.	
		1.00		N=18 (4,4/4,4,5,5)				Very stiff grey & brown CLAY.	
		1.70 - 2.00	D		1.70	-1.70		Very stiff yellow CLAY with weathered mudstone.	
		2.00		N=38 (6,8/10,9,10,9)					
		2.60 - 3.00	D		2.60	-2.60		Grey iron stained MUDSTONE with bands of ironstone.	
		3.00		62 (11,15/62 for 150mm)					
	④	3.80 - 4.00	D	98 (25 for 75mm/98 for 225mm)	4.30	-4.30		End of borehole at 4.30 m	
Remarks									



Borehole Log

Borehole No.

BH#9

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447109.01 - 345749.20			Hole Type CP
Location: Eastwood Landfill, Nottinghamshire						Level: 0.00			Scale 1:50
Client: Broxtowe Borough Council						Dates: 03/04/2018 - 03/04/2018			Logged By TJ
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 - 1.00	D		0.30	-0.30		Grass & TOPSOIL.	
		1.00		N=21 (3,5/6,4,5,6)				Very stiff yellowish brown sandy CLAY & fine grained sandstone.	
		1.70 - 2.00	D		1.70	-1.70			
		2.00		N=36 (7,9/10,9,8,9)					
		2.70 - 3.00	D		3.30	-3.30		Orange weathered SILTSTONE.	
		3.00		95 (25 for 75mm/95 for 225mm)				End of borehole at 3.30 m	
									1
									2
									3
									4
									5
									6
									7
									8
									9
									10
Remarks									



Borehole Log

Borehole No.

BH#10

Sheet 1 of 1

Project Name: Eastwood Landfill Project No. 57629 Co-ords: 447113.81 - 345687.44

Hole Type
CP

Location: Eastwood Landfill, Nottinghamshire Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council Dates: 04/04/2018 - 04/04/2018

Logged By
TJ

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
1	D	0.30 - 1.00	N=20 (3,5/4,5,6,5) N=20 (4,4/4,5,5,6) 69 (11,14/69 for 150mm)	0.30 1.00 1.70 - 2.00 2.00 2.60 - 3.00 3.00 3.80 - 4.00 4.00	0.30	-0.30		Grass & TOPSOIL.	
		1.00						Very stiff yellowy brown sandy CLAY with fine grained sandstone.	1
		1.70 - 2.00			1.70	-1.70		Yellowy grey weathered MUDSTONE.	2
		2.00			2.50	-2.50		Yellowy grey iron stained MUDSTONE with bands of ironstone.	3
		2.60 - 3.00							4
		3.00							5
		3.80 - 4.00							6
		4.00							7
									8
								End of borehole at 4.30 m	9
									10
Remarks									



Borehole Log

Borehole No.

BH#11

Sheet 1 of 1

Project Name: Eastwood Landfill

Project No.
57629

Co-ords: 447052.93 - 345667.95

Hole Type
CP

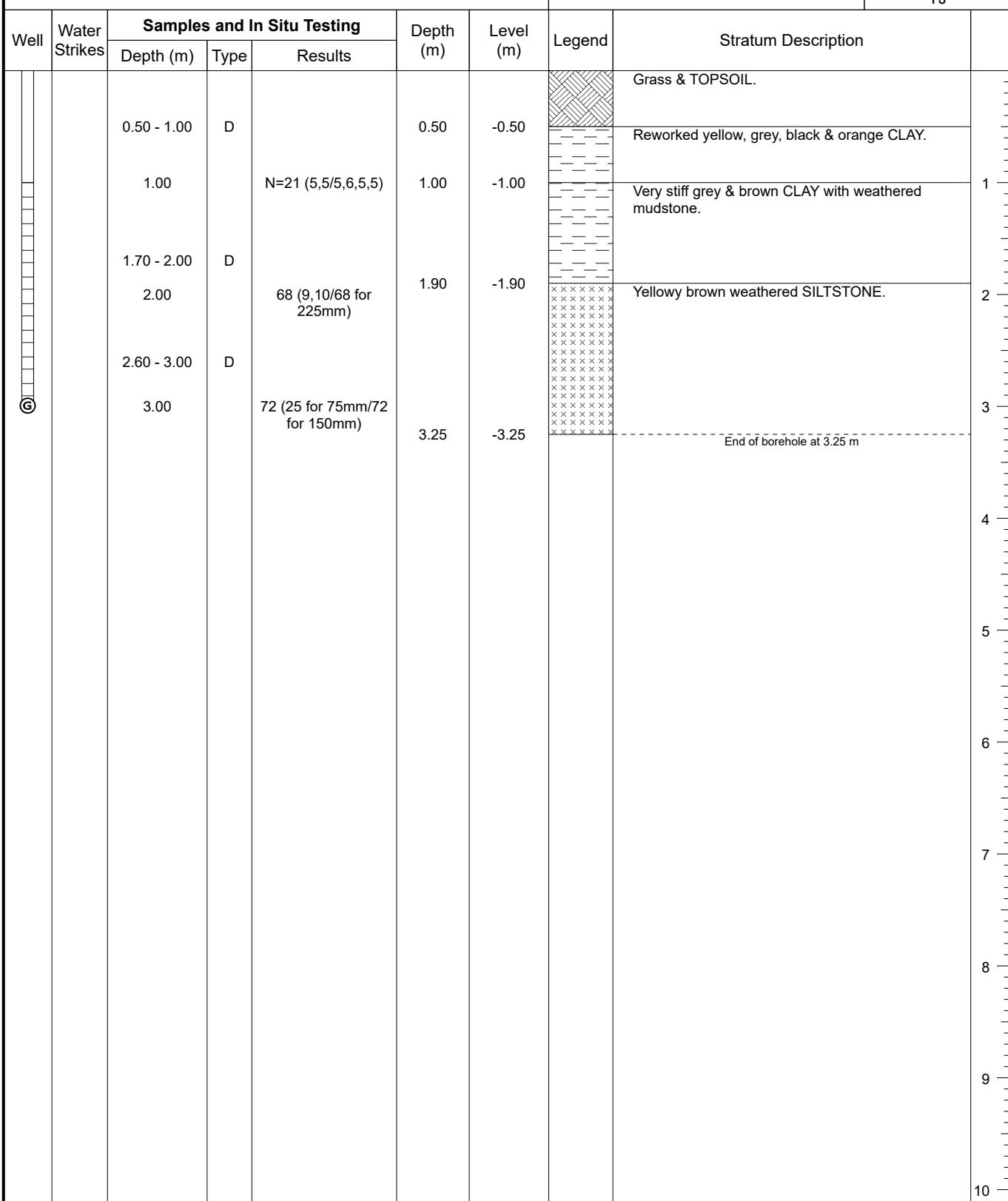
Location: Eastwood Landfill, Nottinghamshire

Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council

Dates: 05/04/2018 - 05/04/2018

Logged By
TJ

Remarks





Borehole Log

Borehole No.

BH#12

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629		Co-ords: 447069.50 - 345582.11		Hole Type CP
Location: Eastwood Landfill, Nottinghamshire			Level: 0.00		Scale 1:50		
Client: Broxtowe Borough Council			Dates: 05/04/2018 - 05/04/2018		Logged By TJ		
Well	Water Strikes	Samples and In Situ Testing		Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	(m)		
		0.50 - 0.80	D	N=19 (3,4/4,5,4,6) N=70 (8,9/10,16,20,24)	0.50	-0.50	Grass & TOPSOIL.
		0.80 - 1.00	D		0.80	-0.80	Possibly reworked yellowy orange CLAY.
		1.00					Very stiff yellowy brown & grey sandy CLAY with sandstone.
		1.80 - 2.00	D		1.80	-1.80	Grey MUDSTONE.
		2.00					
		2.40 - 2.60	D		2.40	-2.40	COAL & shale.
		3.00			2.60	-2.60	Grey iron stained MUDSTONE.
		3.50			3.70	-3.70	End of borehole at 3.70 m



Borehole Log

Borehole No.

BH#13

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629		Co-ords: 447019.79 - 345528.99		Hole Type CP
Location: Eastwood Landfill, Nottinghamshire					Level: 0.00		Scale 1:50
Client: Broxtowe Borough Council					Dates: 06/04/2018 - 06/04/2018		Logged By TJ
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend
		Depth (m)	Type	Results			
		0.30 - 0.60	D		0.60	-0.60	Grass & TOPSOIL.
		0.60 - 1.00	D	N=14 (2,3/4,3,3,4)	1.60	-1.60	Grey MUDSTONE.
		1.00					1
		1.70 - 2.00	D	N=24 (5,6/5,6,6,7)			Dark grey MUDSTONE & shale.
		2.00					2
		3.00		N=28 (5,5/7,7,6,8)			3
		4.00		N=39 (8,8/9,9,10,11)			4
		4.80 - 5.00	D		4.60	-4.60	Light brown iron stained SILTSTONE.
		5.00		75 (10,15/75 for 150mm)	5.25	-5.25	5
							End of borehole at 5.25 m
							6
							7
							8
							9
							10
Remarks							



Borehole Log

Borehole No.

BH#14

Sheet 1 of 1

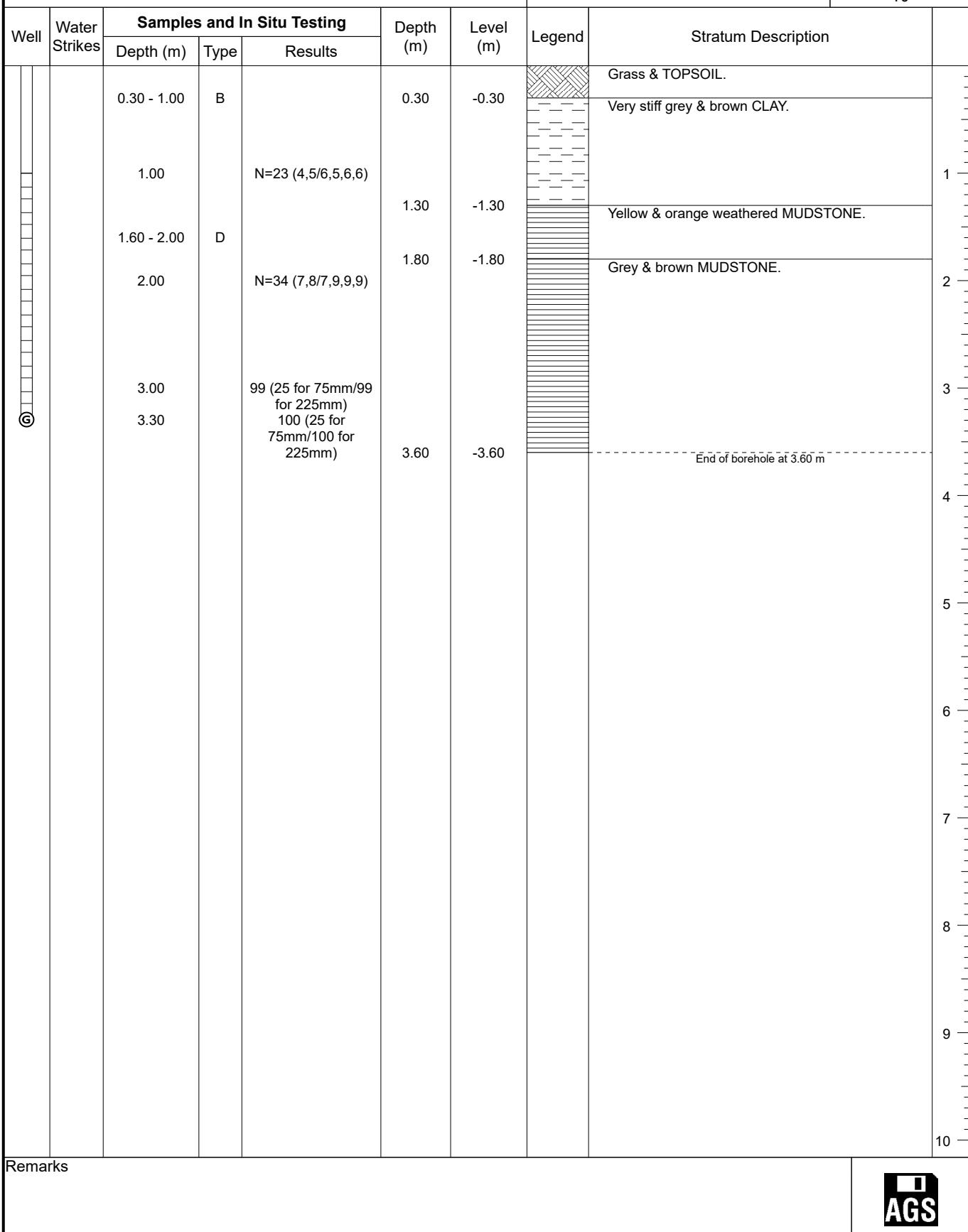
Project Name: Eastwood Landfill Project No. 57629 Co-ords: 447039.10 - 345903.23

Hole Type
CP

Location: Eastwood Landfill, Nottinghamshire Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council Dates: 30/03/2018 - 02/04/2018

Logged By
TJ



Borehole Log

Borehole No.

BH#15

Sheet 1 of 1

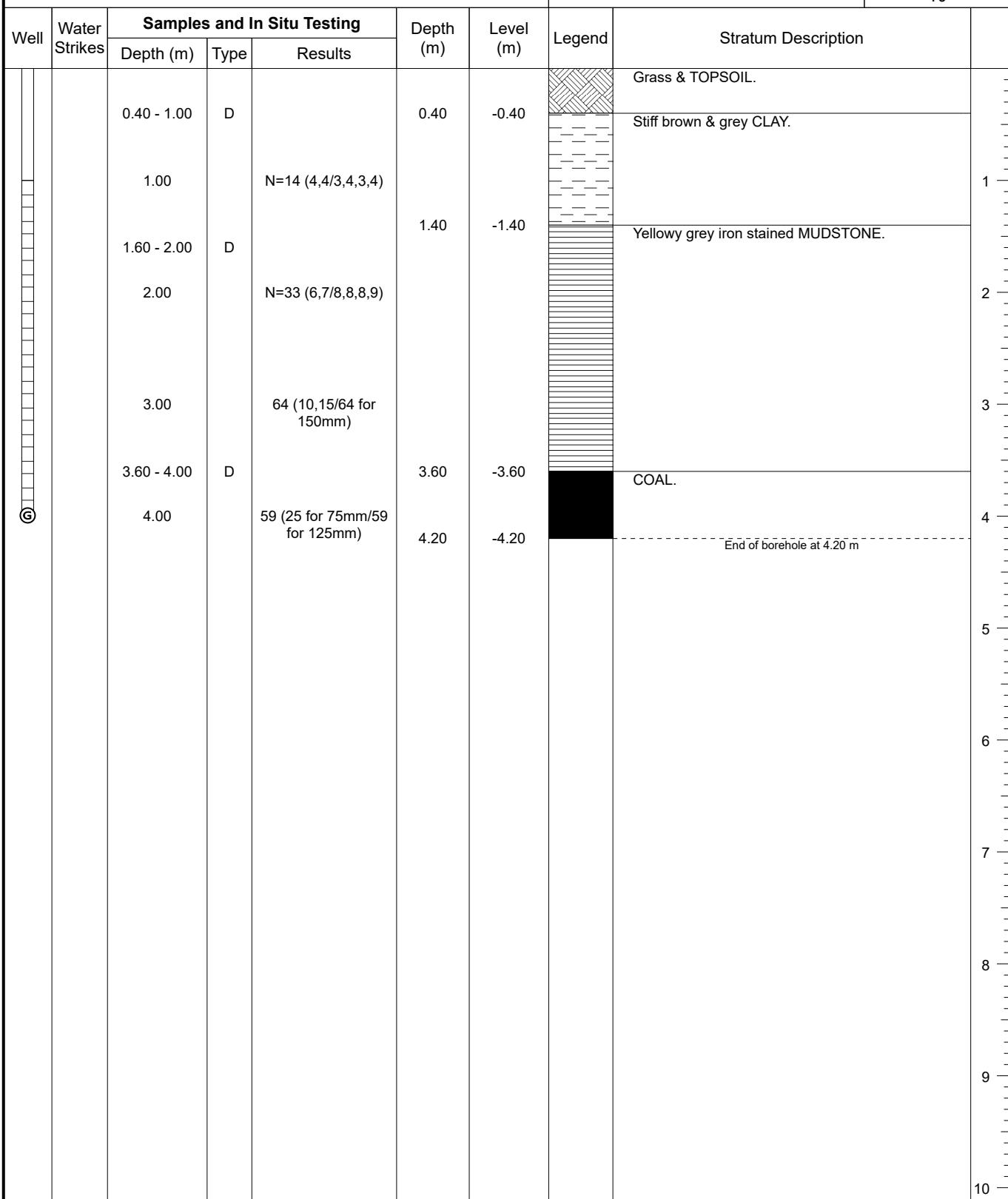
Project Name: Eastwood Landfill Project No. 57629 Co-ords: 446840.95 - 346033.43

Hole Type
CP

Location: Eastwood Landfill, Nottinghamshire Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council Dates: 27/03/2018 - 28/03/2018

Logged By
TJ

Remarks





Borehole Log

Borehole No.

BH#17

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629		Co-ords: 446921.45 - 346011.63		Hole Type CP	
Location: Eastwood Landfill, Nottinghamshire					Level: 0.00		Scale 1:50	
Client: Broxtowe Borough Council					Dates: 29/03/2018 - 29/03/2018		Logged By TJ	
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.40 - 1.00	D		0.40	-0.40	Grass & TOPSOIL.	
		1.00		N=14 (3,3/3,4,4,3)			Stiff grey & brown CLAY with shale & coal bands.	
		1.70 - 1.80 1.80 - 2.00 2.00	D D	N=39 (6,7/9,10,9,11)	1.80	-1.80	Orange & grey iron stained MUDSTONE with bands of ironstone.	
		2.50 - 3.00	D					
		3.00		65 (10,15/65 for 225mm)				
	④	4.00		88 (25 for 75mm/88 for 225mm)	4.30	-4.30	End of borehole at 4.30 m	
Remarks								



Borehole Log

Borehole No.

BH#18

Sheet 1 of 1

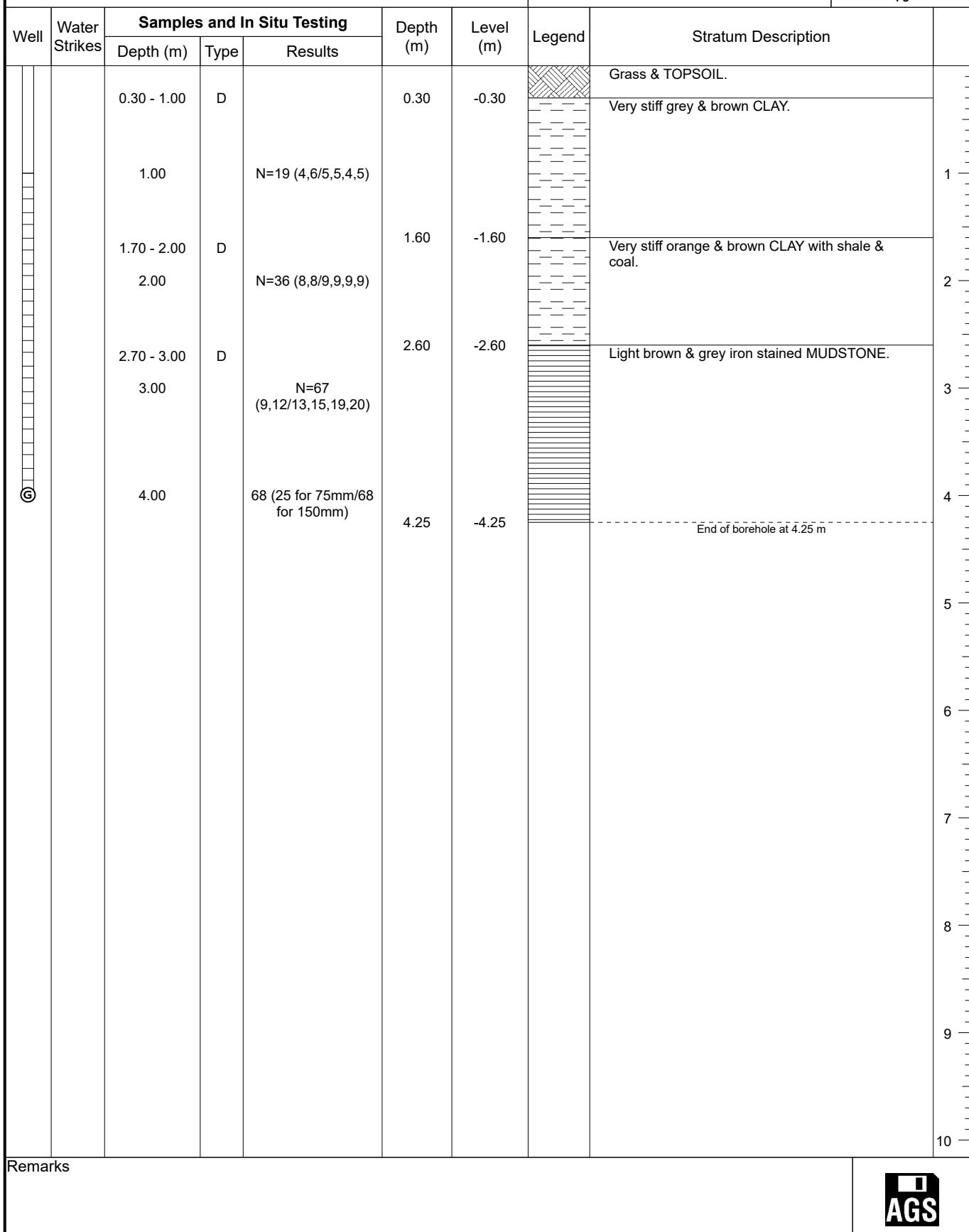
Project Name: Eastwood Landfill Project No. 57629 Co-ords: 447006.43 - 345943.13

Hole Type
CP

Location: Eastwood Landfill, Nottinghamshire Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council Dates: 02/04/2018 - 02/04/2018

Logged By
TJ



Borehole Log

Borehole No.

BH#19

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447075.40 - 345885.19			Hole Type CP
Location: Eastwood Landfill, Nottinghamshire						Level: 0.00			Scale 1:50
Client: Broxtowe Borough Council						Dates: 04/04/2018 - 04/04/2018			Logged By TJ
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
④	D	0.30 - 1.00	N=23 (3,4/5,6,6,6) N=26 (5,5/6,6,7,7) N=40 (6,8/10,9,10,11) 69 (10,15/69 for 225mm)	0.30	-0.30		Grass & TOPSOIL.		
		1.00						Very stiff grey & brown CLAY.	1
		1.60 - 2.00						Very stiff grey & brown CLAY with weathered mudstone.	2
		2.00							3
		2.40 - 3.00						Grey iron stained MUDSTONE.	4
		3.00							5
		3.60 - 4.00							6
		4.00							7
									8
									9
						10			
Remarks									



Borehole Log

Borehole No.

BH#20

Sheet 1 of 1

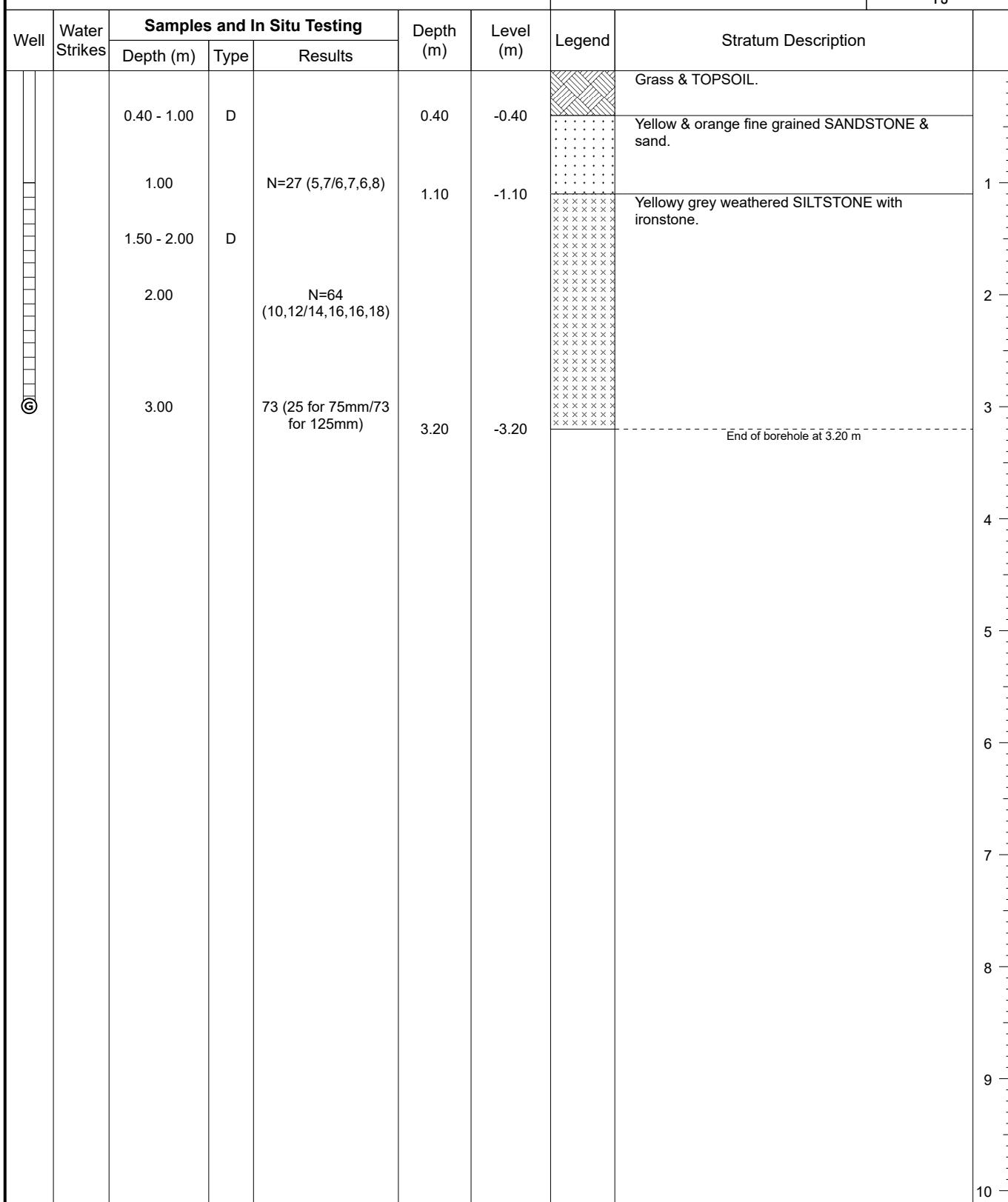
Project Name: Eastwood Landfill Project No. 57629 Co-ords: 447203.45 - 345671.30

Hole Type
CP

Location: Eastwood Landfill, Nottinghamshire Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council Dates: 03/04/2018 - 03/04/2018

Logged By
TJ

Remarks





Borehole Log

Borehole No.

BH#21

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447132.16 - 345606.03			Hole Type CP
Location: Eastwood Landfill, Nottinghamshire						Level: 0.00			Scale 1:50
Client: Broxtowe Borough Council						Dates: 05/04/2018 - 06/04/2018			Logged By TJ
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	10
		Depth (m)	Type	Results					
◎		0.50 - 1.00	B	N=14 (2,3/3,4,3,4)	0.50	-0.50		Grass & TOPSOIL.	
		1.00	D		1.60 - 2.00 2.00 2.50 - 2.80	1.50	-1.50		Stiff orange & brown sandy CLAY with sandstone.
		1.60 - 2.00							Yellow & grey iron stained MUDSTONE.
		2.00							
		2.50 - 2.80							
		3.00		73 (25 for 75mm/73 for 150mm)	3.25	-3.25		End of borehole at 3.25 m	
								8	
								7	
								6	
								5	
								4	
								3	
								2	
								1	
Remarks									



Borehole Log

Borehole No.

BH#22

Sheet 1 of 1

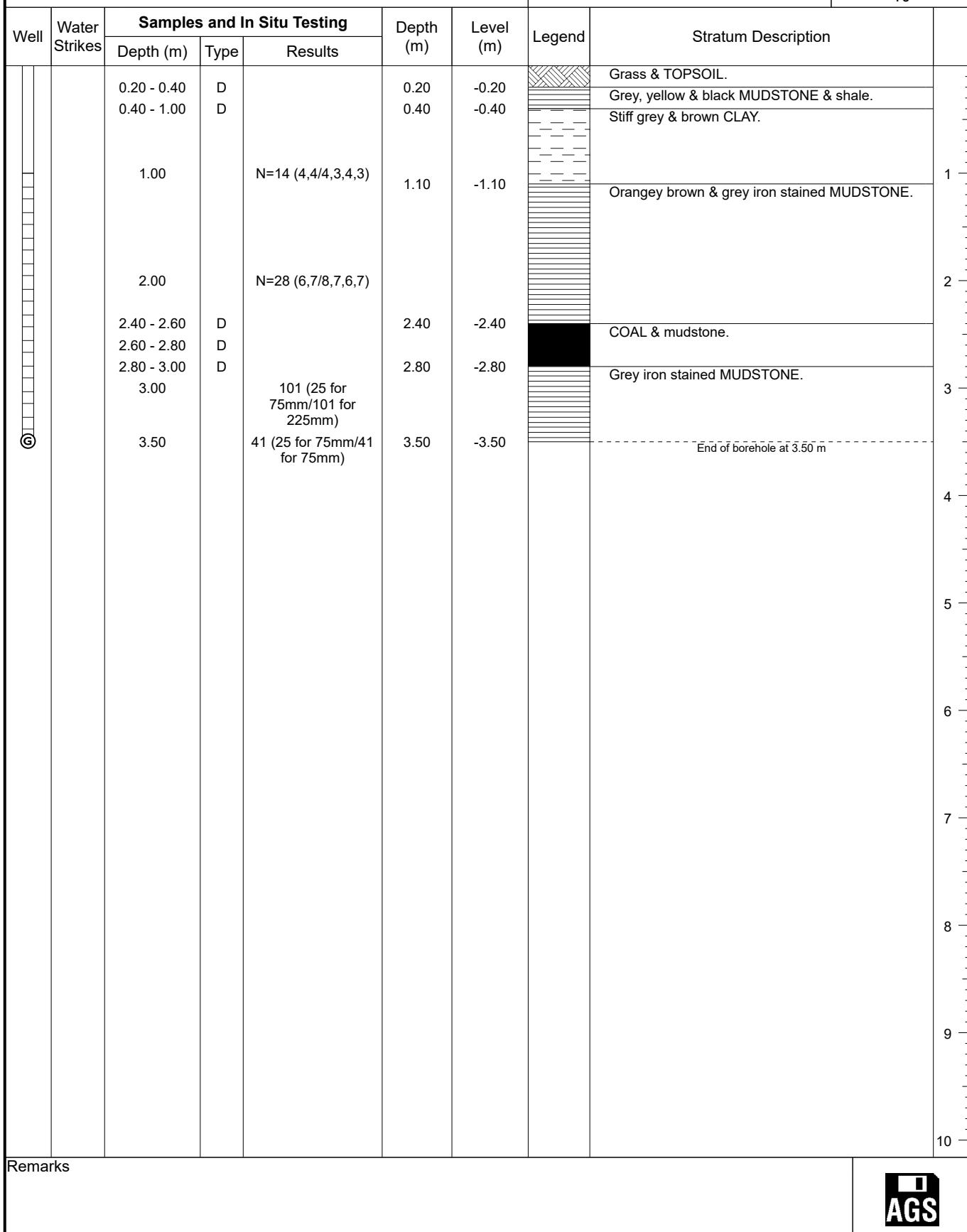
Project Name: Eastwood Landfill Project No. 57629 Co-ords: 447077.19 - 345497.71

Hole Type
CP

Location: Eastwood Landfill, Nottinghamshire Level: 0.00

Scale
1:50

Client: Broxtowe Borough Council Dates: 06/04/2018 - 06/04/2018

Logged By
TJ

GROUND INVESTIGATION & PILING LTD
Rotary Drillhole Log

Borehole No. BHR2
Sheet 1 of 2

Level (m AOD): 93.19

Date: 04/11/2005b 04/11/2005

Coordinates E: 447225.50 N: 345791.41

Cased (m): 2.00

Diameter (mm): 101

Location: Eastwood, Nottingham.

Client: Radleigh Homes Limited/J.S.Bloor (Measham) Limited.

Engineer: Atkins.



DESCRIPTION OF STRATA	Legend	Depth (m bgl)	Level (m AOD)	Water Level (m bgl)	Samples/Drill Run (m bgl)	Type	RUN DETAILS				Details
							TCR	SCR	RQD	PI	
MADE GROUND FILL (Driller's description).	X	0.30	92.89		0.00						
Brown sandy CLAY (Driller's description).											
Grey MUDSTONE (Driller's description).		6.80	86.39								
Grey MUDSTONE, yellow bands (Driller's description).		8.30	84.89								

[Continued on next sheet]

SAMPLES / TESTS
OHC Openhole Cored Drilling
TCR Total Core Recovery (%)
SCR Solid Core Recovery (%)
RQD Rock Quality Designation (%)
PI Fracture Index
Water entries
Water level

OTHER INFORMATION

- 1.Groundwater encountered at 17.00m.
2. 63mm OD standpipe installed, slotted from 20.00m to 14.00m, plain from 14.00m to 0.00m in a gravel filter to 2.00m, bentonite seal to 0.50m and a lockable cover at surface.

Logged by	DL	Project No. 13054
Checked by	CHE	

GROUND INVESTIGATION & PILING LTD
Rotary Drillhole Log

Level (mAOD): 93.19

Date: 04/11/2005o 04/11/2005

Coordinates E: 447225.50 N: 345791.41

Cased (m): 2.00

Diameter (mm): 101

Location: Eastwood, Nottingham

Client: Radleigh Homes Limited/J.S.Bloor (Meadham) Limited.

Engineer: Atkins

Borehole No. BHR2
Sheet 2 of 2



DESCRIPTION OF STRATA	Legend	Depth (m bgl)	Level (m AOD)	Water Level (m bgl)	Samples/Drill Run (m bgl)	Type	RUN DETAILS				Standpipe Details
							TCR	SCR	RQD	FI	
Grey MUDSTONE, yellow bands (Driller's description).											
		12.00	81.19								
Grey sandy MUDSTONE (Driller's description).											
Black MUDSTONE and COAL (Driller's description).		16.50	76.69								
Grey sandy MUDSTONE (Driller's description).		17.60	75.59								
Yellow brown sandy MUDSTONE (Driller's description).		18.00	75.19								

SAMPLES / TESTS Grade Comps

OHC Open Hole Core Drilling

TCR Total Core Recovery (%)

SCR Solid Core Recovery (%)

RQD Rock Quality Designation (%)

FI Fracture Index

Water strike

Water level

OTHER INFORMATION

Logged by	DL	Project No. 13054
Checked by	CEB	



Trial Pit Log

Trialpit No

TP#1

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 446805.97 - 346020.87 Level: 0.00			Date 26/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 2.9			Scale 1:25
Client: Broxtowe Borough Council						Depth 2.70	0.6		Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.00 - 0.40	B					Black slightly silty slightly sandy CLAY LOAM.		
	0.40 - 0.95	B		0.40	-0.40		Yellow CLAY.		
	0.95 - 2.50	B		0.95	-0.95		Yellow & grey CLAY.		
				2.50	-2.50		Grey weathered MUDSTONE.		
				2.70	-2.70		End of pit at 2.70 m		
Remarks:									AGS
Stability:	Stable								



Trial Pit Log

Trialpit No

TP#2

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 446827.44 - 346034.36 Level: 0.00			Date 26/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 2			Scale 1:25
Client: Broxtowe Borough Council						Depth 2.50 0.6			Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results				HVR=88	HVR=72 HVR=73 HVR=74	End of pit at 2.50 m
	0.00 - 0.30	B		0.30	-0.30		Black slightly silty slightly sandy CLAY LOAM.		
	0.30 - 0.50	B		0.50	-0.50		Yellow CLAY.		
	0.50 - 1.60	B		1.60	-1.60		Grey CLAY.		
	1.60 - 1.90	B		1.90	-1.90		COAL.		
	1.90 - 2.50	B		2.50	-2.50		Grey & yellow weathered MUDSTONE.		
Remarks: Water seepage at 1.9 m - base of Coal									
Stability: Stable									





Trial Pit Log

Trialpit No

TP#3

Sheet 1 of 1

Project Name:	Eastwood Landfill			Project No.	Co-ords: 446915.12 - 345996.20		Date				
Location:	Eastwood Landfill, Nottinghamshire			Level:	0.00		26/03/2018				
Client:	Broxtowe Borough Council			Dimensions (m):	2.1		Scale 1:25				
				Depth 2.40	0.6						
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
	Depth	Type	Results								
	0.00 - 0.30	B		0.30	-0.30		Black slightly silty slightly sandy CLAY LOAM.				
	0.30 - 2.00						Grey and yellowish brown CLAY.				
	2.10 - 2.40						Grey weathered MUDSTONE.				
							Orange & brown fine SANDSTONE.				
							End of pit at 2.40 m				
Remarks:											
Stability: Stable											



Trial Pit Log

Trialpit No

TP#4

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 446991.83 - 345951.07 Level: 0.00		Date 26/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 1.8 Depth 2.70		Scale 1:25
Client: Broxtowe Borough Council						0.6		Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.00 - 0.30	B		0.30	-0.30		Black slightly silty slightly sandy CLAY LOAM.	
	0.30 - 1.80	B		1.80	-1.80		Yellow & grey CLAY.	
	1.80 - 2.30	B		2.30	-2.30		COAL.	
	2.30 - 2.60	B	HVR=60 HVR=70 HVR=80 HVR=80 HVR=90	2.60	-2.60		Grey weathered MUDSTONE.	
	2.60 - 2.70	B		2.70	-2.70		Orange fine SANDSTONE. End of pit at 2.70 m	
Remarks: Water seepage at 2.3 m - base of Coal								
Stability: Stable								





Trial Pit Log

Trialpit No

TP#5

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447003.36 - 345915.18 Level: 0.00			Date 26/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 1.9			Scale 1:25
Client: Broxtowe Borough Council						Depth 2.40	0.6		Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.00 - 0.30	B		0.30	-0.30		Black slightly silty slightly sandy CLAY LOAM.		
	0.30 - 1.50	B		1.50	-1.50		Yellow & grey slightly gravelly CLAY. Gravels of weathered sandstone.		
	1.50 - 2.40	B		2.40	-2.40		Yellow & grey gravelly CLAY. Gravels of weathered sandstone.		
							End of pit at 2.40 m		
Remarks:									
Stability: Stable									



Trial Pit Log

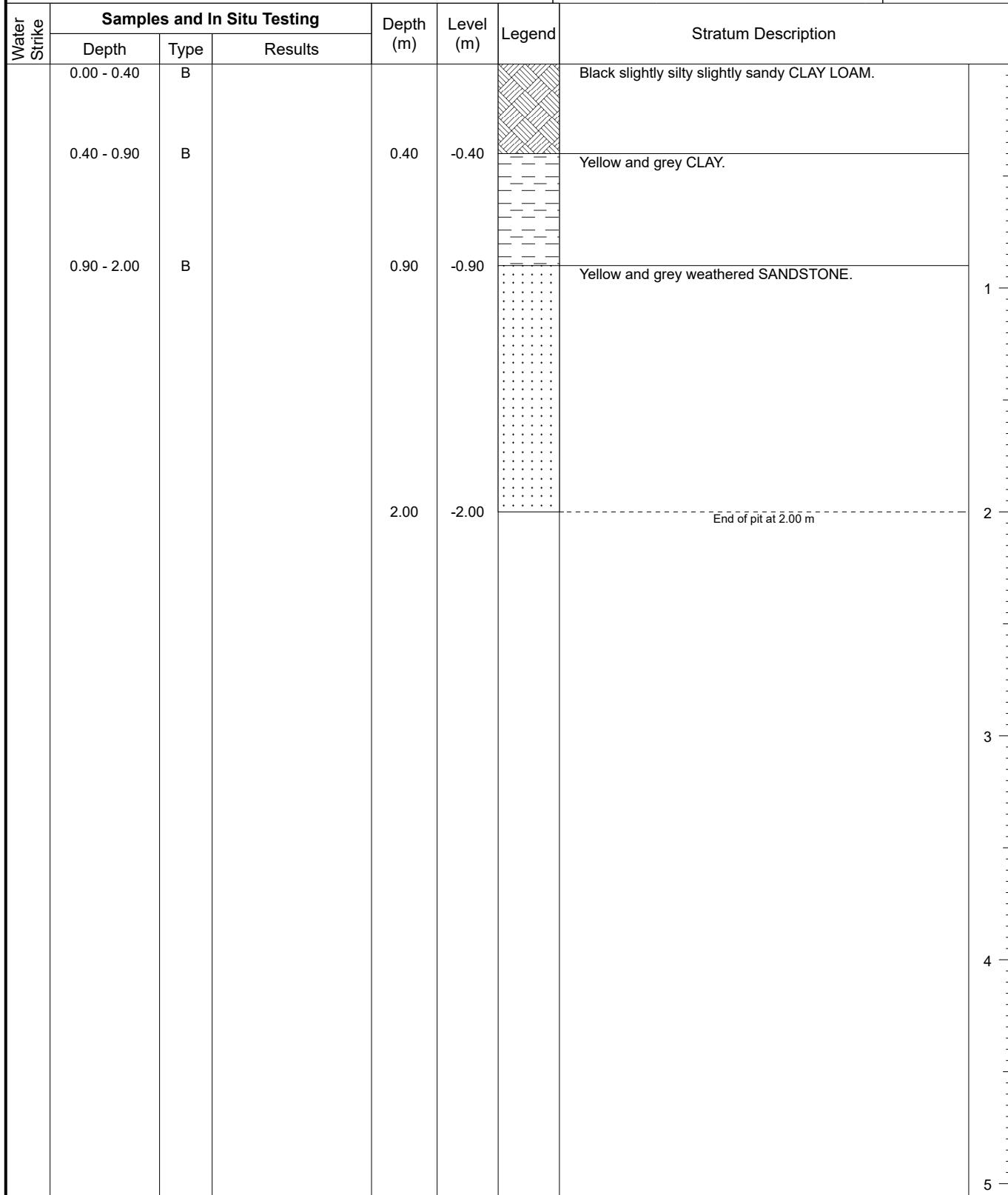
Trialpit No

TP#6

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords:	447058.84 - 345865.19	Date
		57629	Level:	0.00	26/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	2.2	Scale 1:25
Client:	Broxtowe Borough Council	Depth 2.00	0.6	Logged MC



Remarks:	
Stability: Stable	



Trial Pit Log

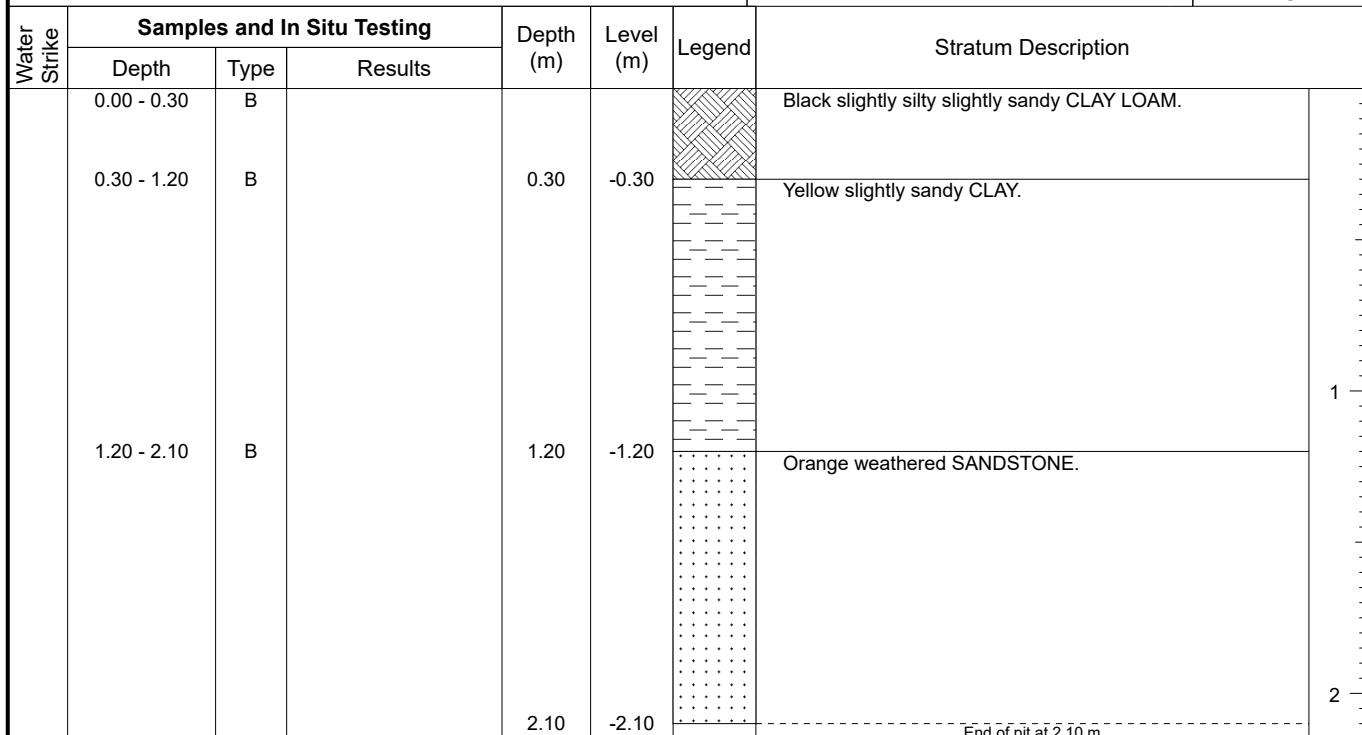
Trialpit No

TP#7

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447162.05 - 34583.54	Date
		57629	Level: 0.00	26/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	2.1	Scale 1:25
Client:	Broxtowe Borough Council	Depth 2.10	0.6	Logged MC



Remarks:	
Stability: Stable	



Trial Pit Log

Trialpit No

TP#8

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447196.28 - 345709.78 Level: 0.00			Date 26/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 2.1			Scale 1:25
Client: Broxtowe Borough Council						Depth 2.10	0.6		Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.00 - 0.35	B					Black slightly silty SANDY CLAY LOAM.		
	0.35 - 1.60	B		0.35	-0.35		Yellow & grey slightly sandy CLAY.		
	1.60 - 2.10	B		1.60	-1.60		Grey weathered MUDSTONE.		
				2.10	-2.10		End of pit at 2.10 m		
Remarks:									
Stability: Stable									



Trial Pit Log

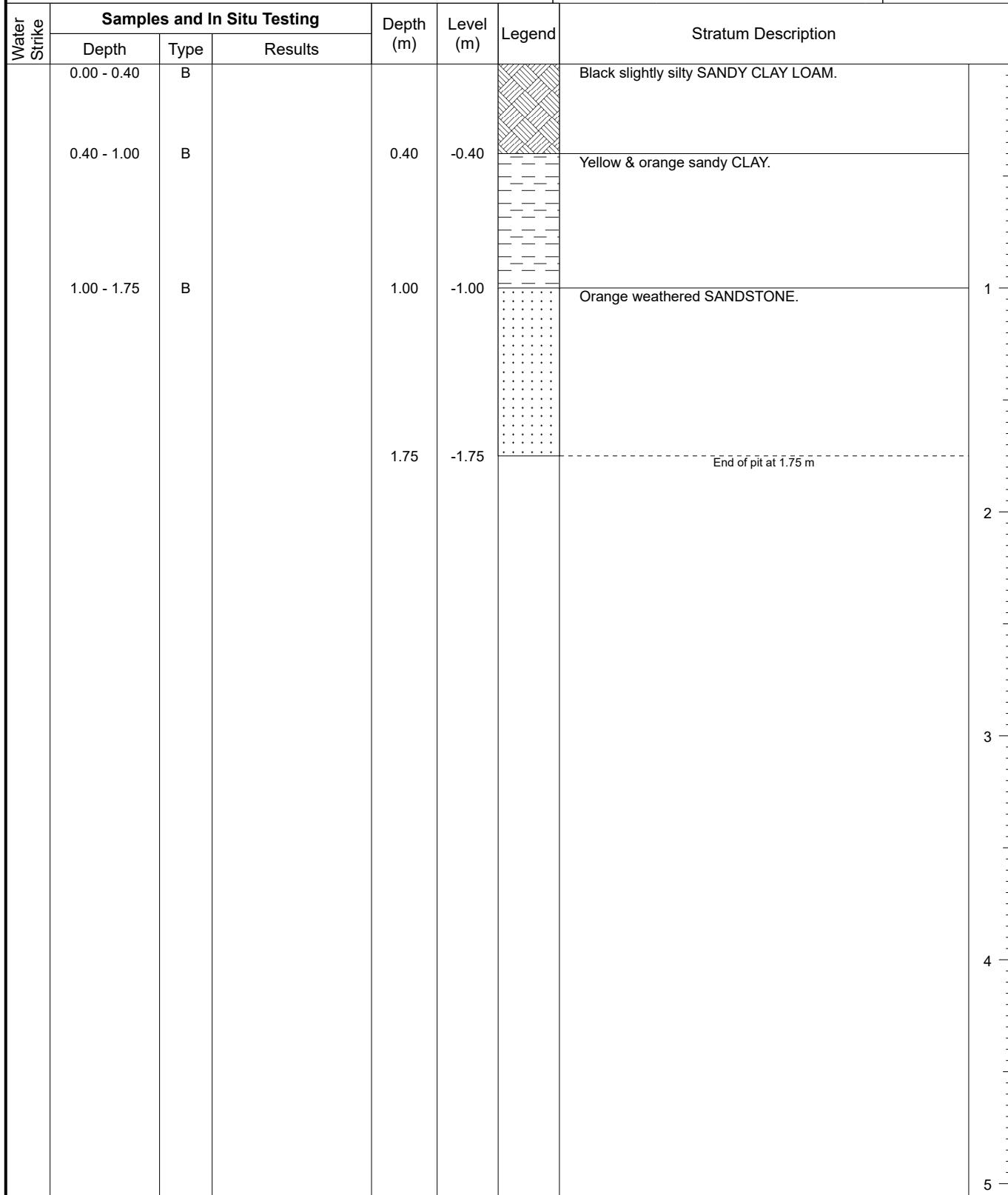
Trialpit No

TP#9

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447161.20 - 345627.10	Date
		57629	Level: 0.00	26/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	2.4	Scale 1:25
Client:	Broxtowe Borough Council	Depth 1.75	0.6	Logged MC



Remarks:	
Stability: Stable	



Trial Pit Log

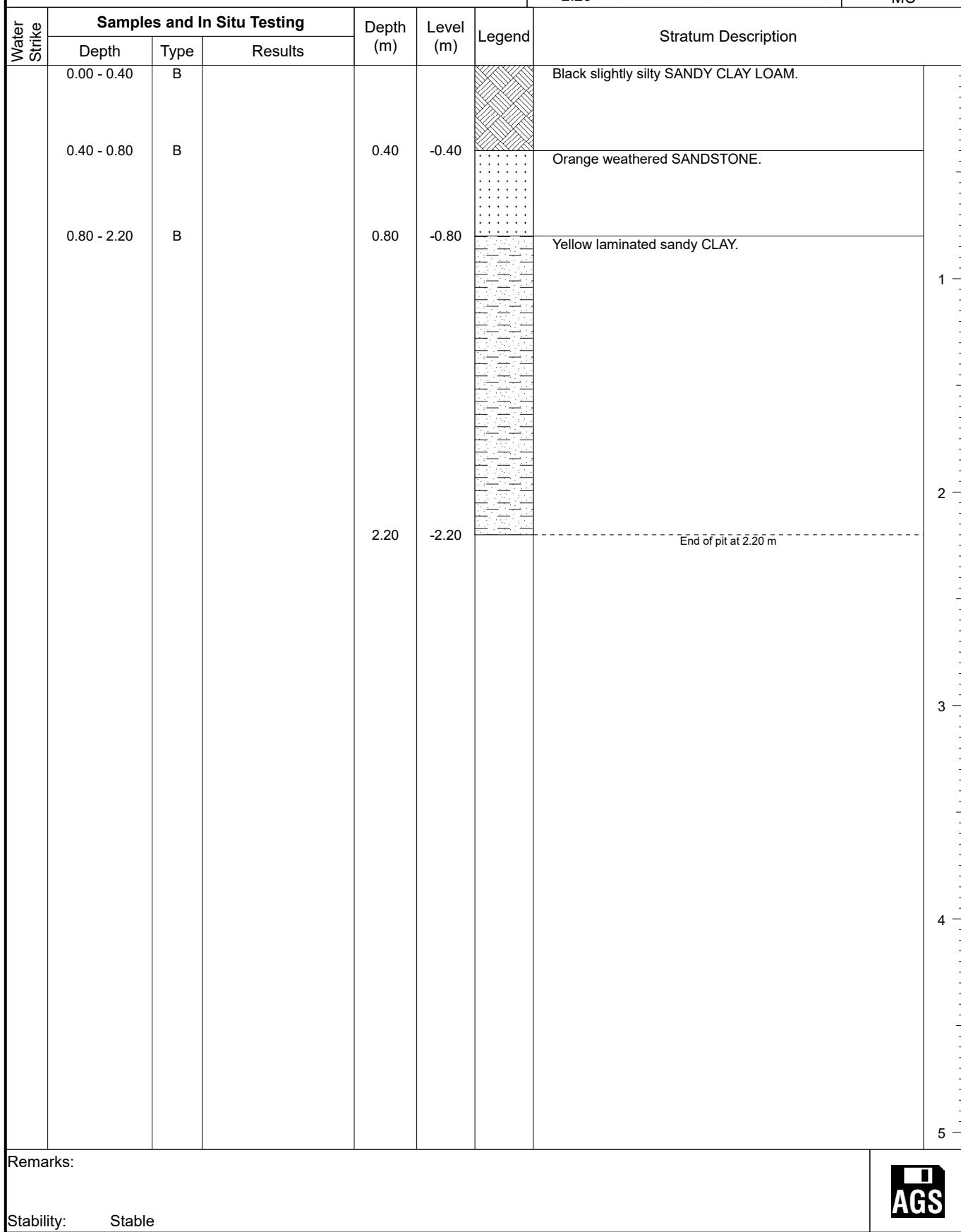
Trialpit No

TP#10

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447110.18 - 345610.08	Date
		57629	Level: 0.00	26/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	2.1	Scale 1:25
Client:	Broxtowe Borough Council	Depth 2.20	0.6	Logged MC





Trial Pit Log

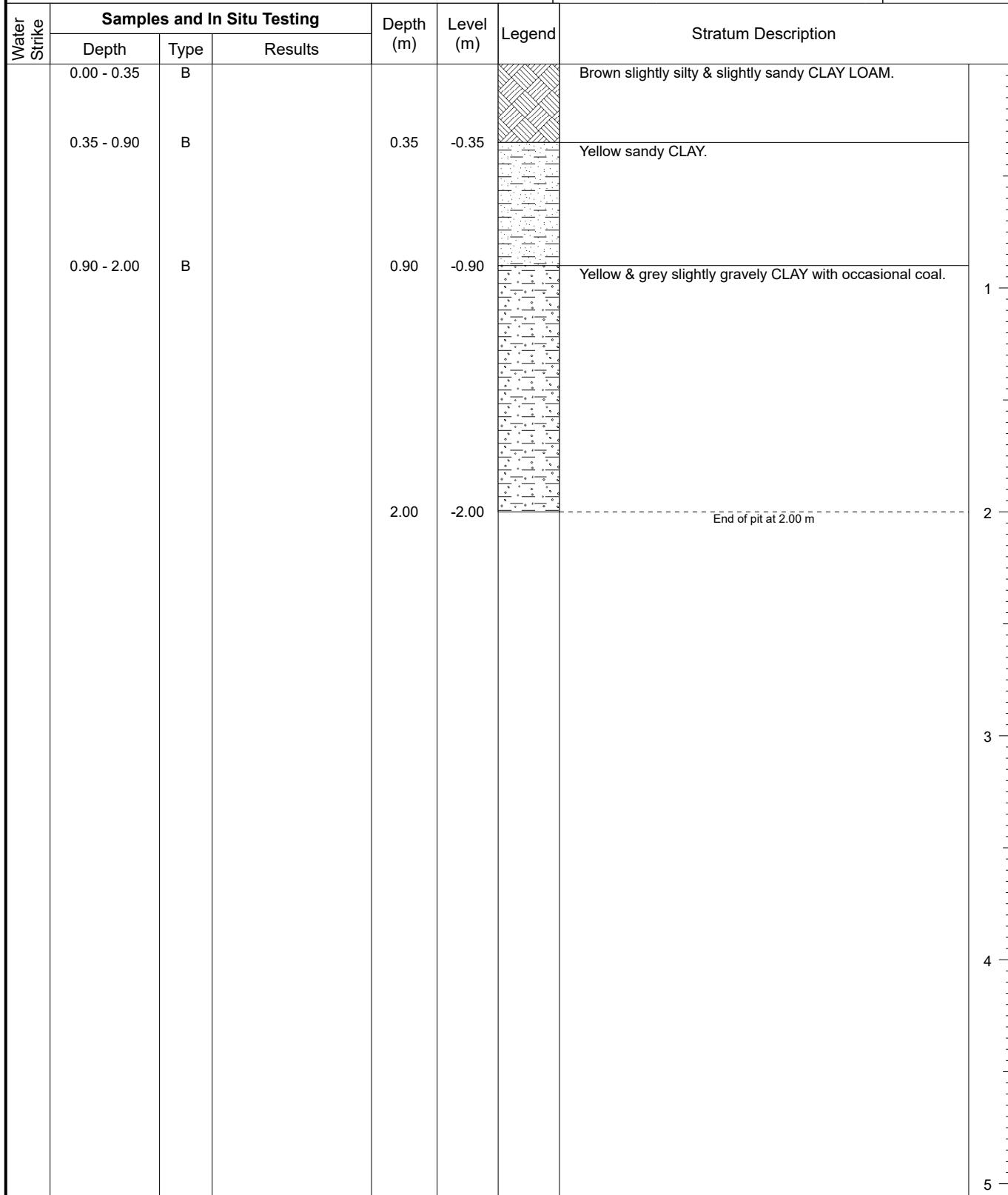
Trialpit No

TP#11

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 446875.01 - 346009.16	Date
		57629	Level: 0.00	27/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	3.3	Scale 1:25
Client:	Broxtowe Borough Council	Depth 2.00		Logged RC



Remarks:

Stability: Stable





Trial Pit Log

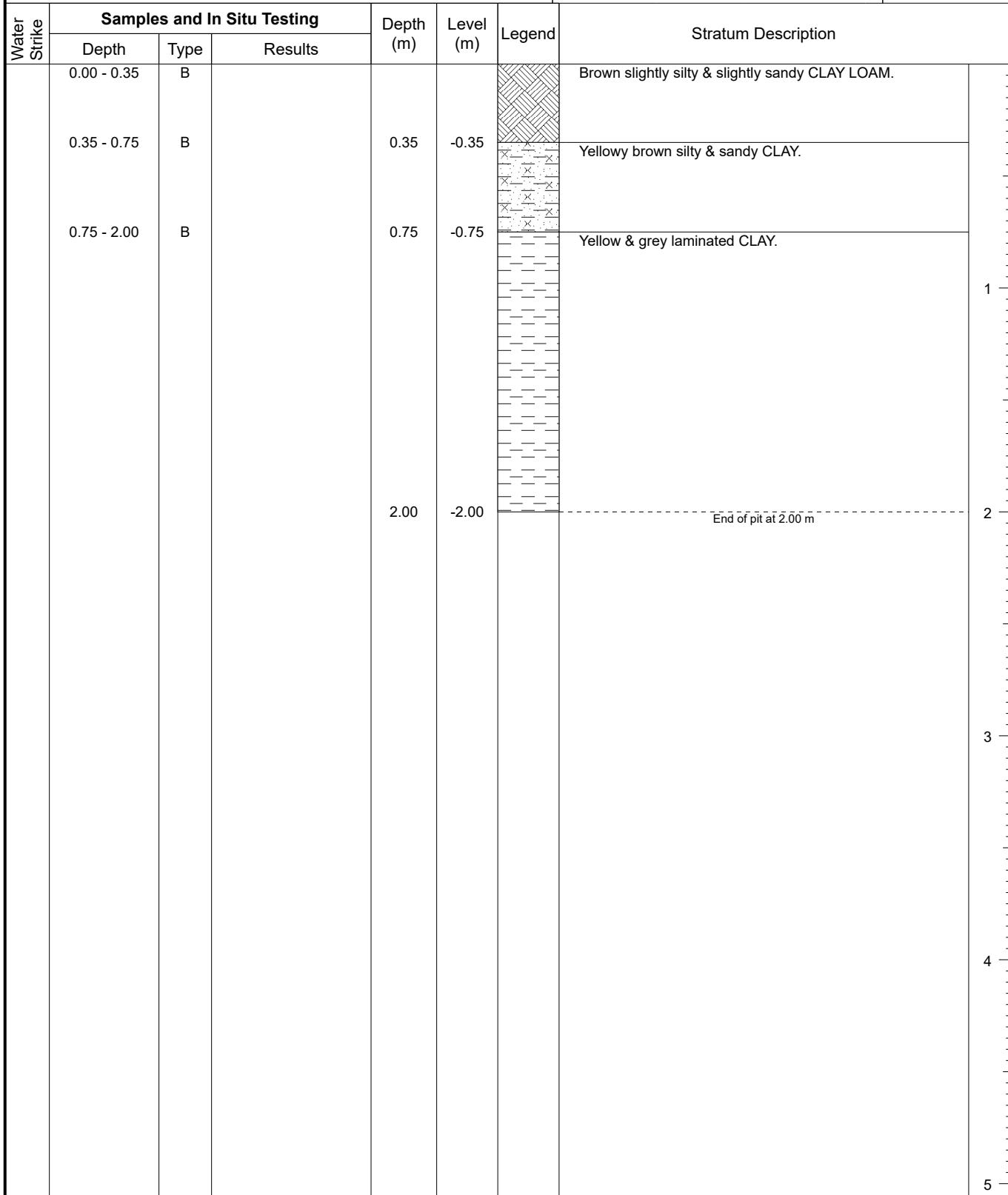
Trialpit No

TP#12

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447019.16 - 345933.69	Date
		57629	Level: 0.00	27/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	3	Scale 1:25
Client:	Broxtowe Borough Council	Depth 2.00		Logged RC



Remarks:	
Stability: Stable	



Trial Pit Log

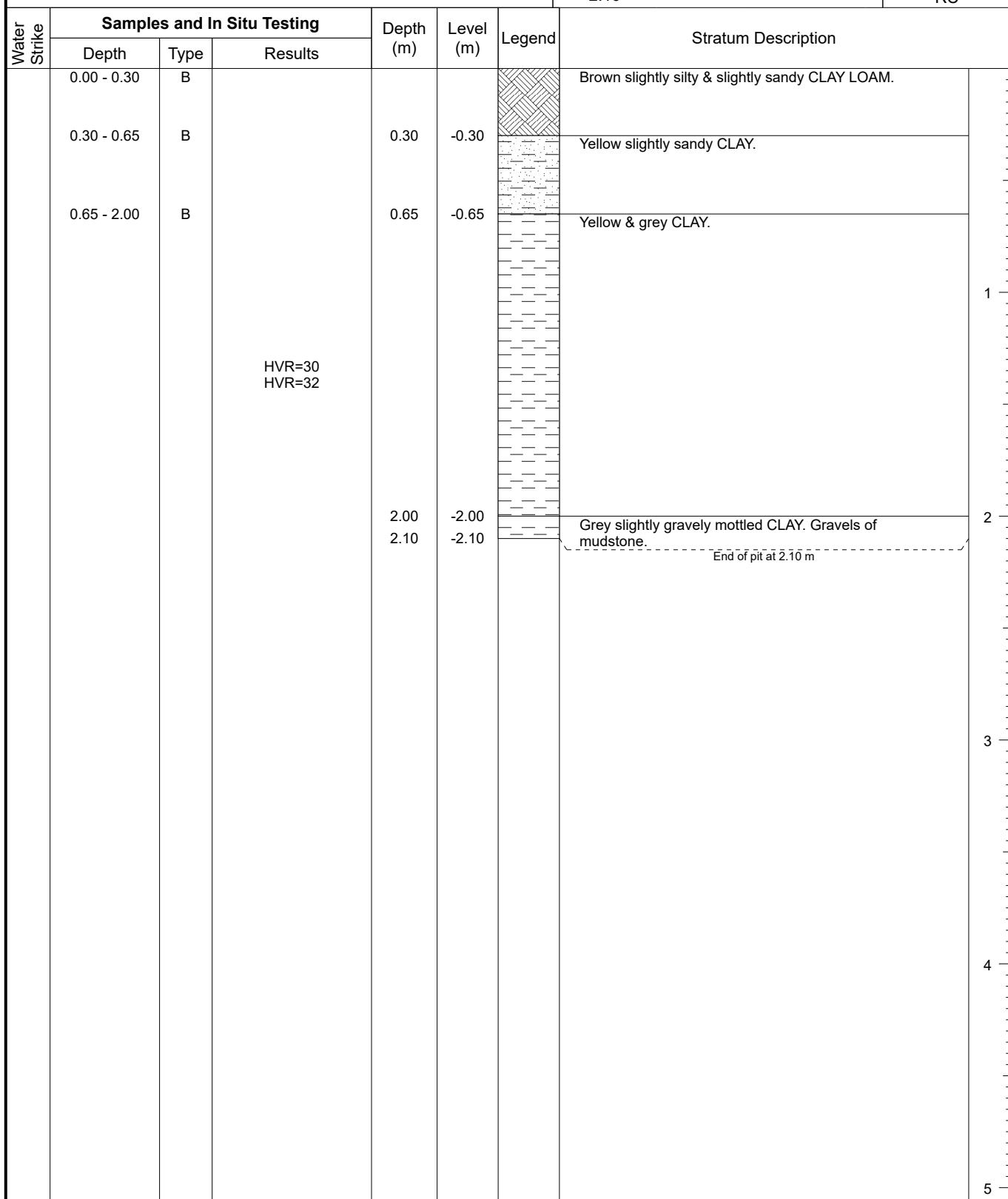
Trialpit No

TP#13

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447022.89 - 345886.79	Date
		57629	Level: 0.00	27/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	3	Scale 1:25
Client:	Broxtowe Borough Council	Depth 2.10		Logged RC



Remarks:

Stability: Stable





Trial Pit Log

Trialpit No

TP#14

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447111.16 - 345847.99 Level: 0.00		Date 28/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 2.8 Depth 2.10		Scale 1:25
Client: Broxtowe Borough Council								Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.00 - 0.35	B			-0.35		Black slightly silty SANDY LOAM with occasional brick, pottery & coal.	1
	0.35 - 1.10	B		0.35	-0.35		Yellow slightly silty CLAY.	2
	1.10 - 1.70	B		1.10	-1.10		Grey & yellow CLAY with lenses of black organic slightly silty CLAY.	3
	1.70 - 2.10	B		1.70	-1.70		Grey weathered MUDSTONE.	4
				2.10	-2.10		End of pit at 2.10 m	5
Remarks:								
Stability: Stable								



Trial Pit Log

Trialpit No

TP#15

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447110.84 - 345810.87 Level: 0.00		Date 28/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 2.9		Scale 1:25
Client: Broxtowe Borough Council						Depth 1.65		Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.00 - 0.40	B			-0.40		Black slightly silty SANDY CLAY LOAM with occasional brick & coal.	1
	0.40 - 0.80	B		0.40	-0.80		Yellow CLAY.	2
	0.80 - 1.50	B	HVR=52 HVR=58 HVR=62	0.80	-1.50		Grey slightly gravelly CLAY.	3
	1.50 - 1.65	B		1.50	-1.65		Yellow & grey weathered MUDSTONE. End of pit at 1.65 m	4
								5
Remarks:								
Stability: Stable								



Trial Pit Log

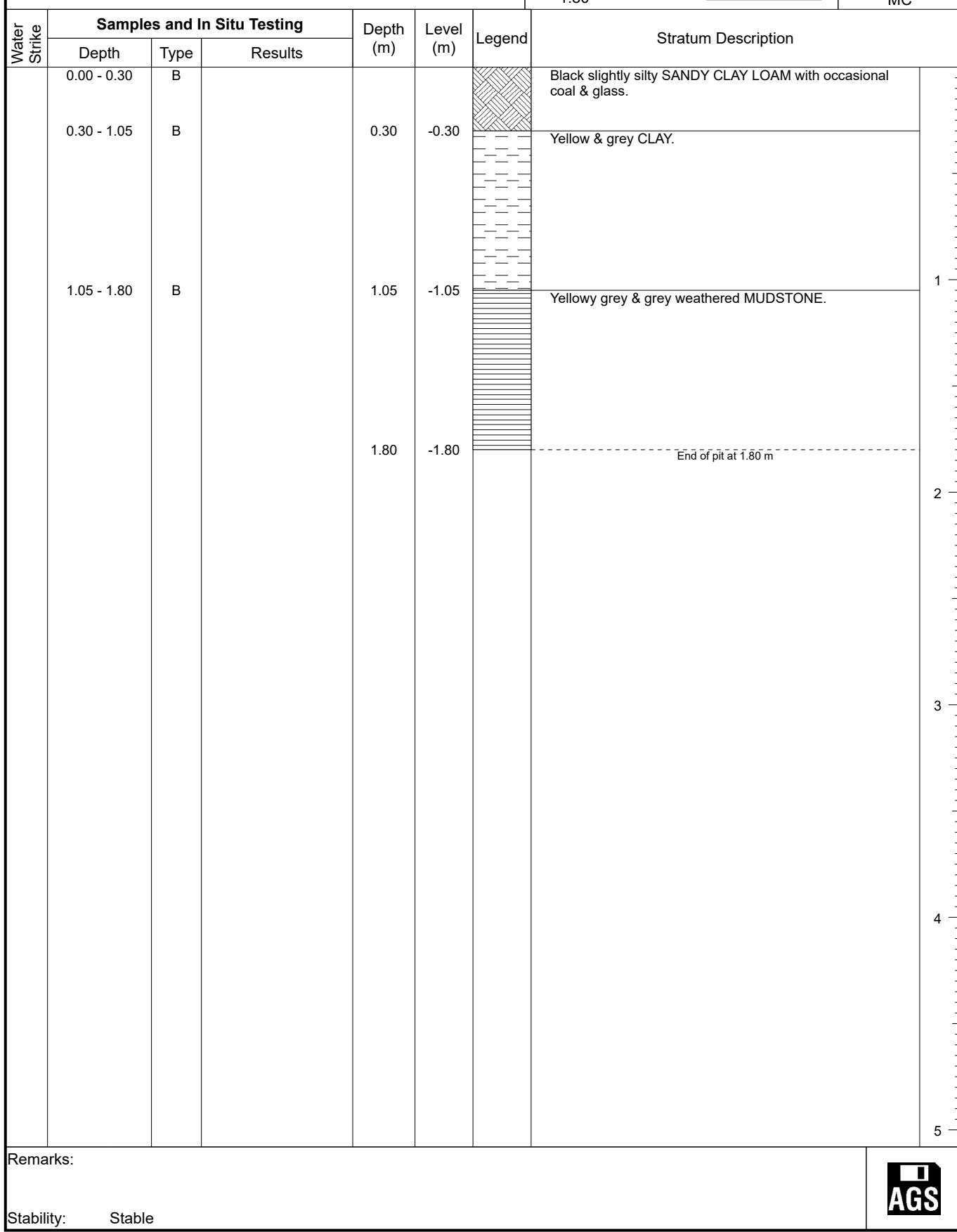
Trialpit No

TP#16

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447051.34 - 345839.90	Date
		57629	Level: 0.00	28/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	2.5	Scale 1:25
Client:	Broxtowe Borough Council	Depth 1.80		Logged MC





Trial Pit Log

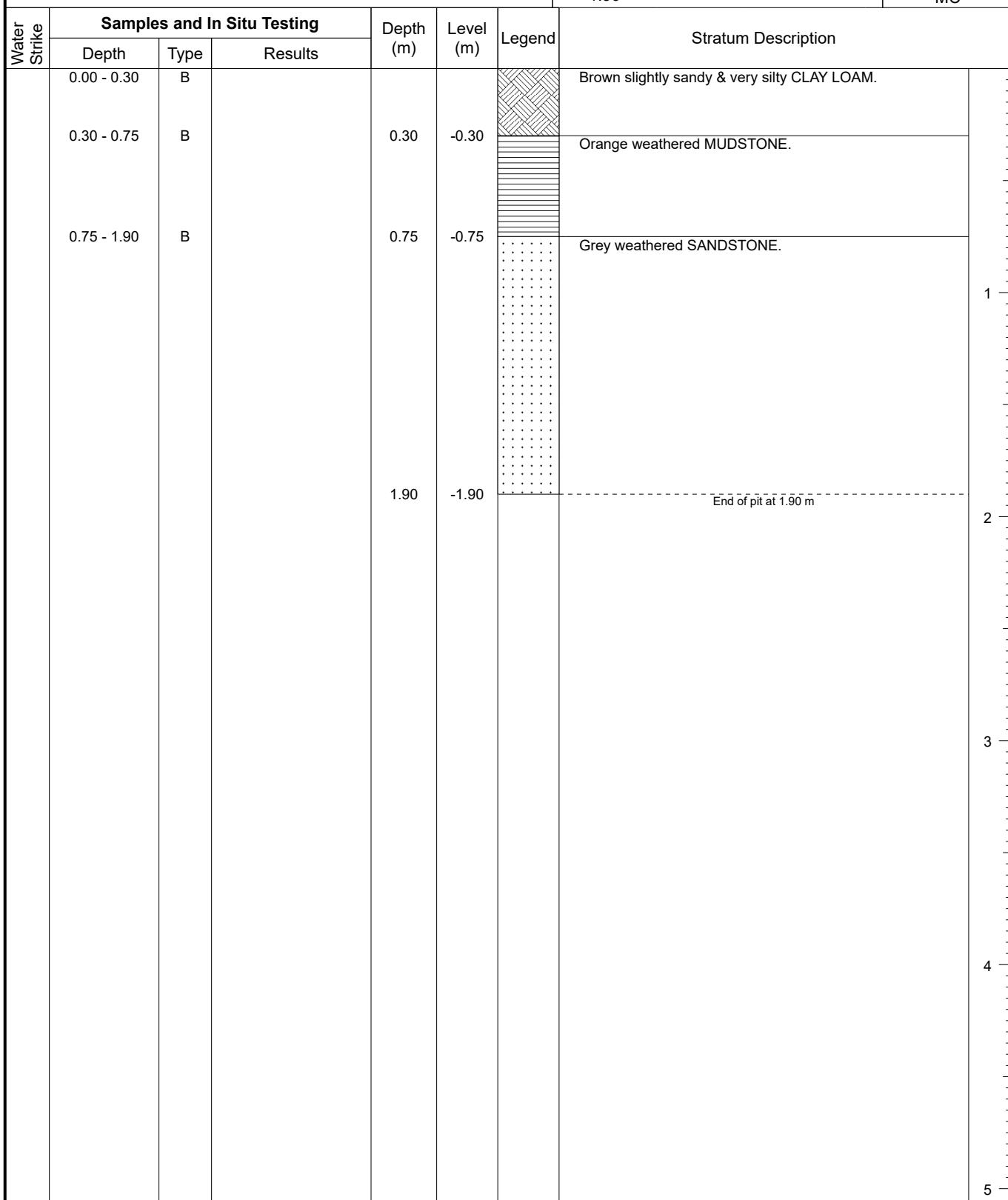
Trialpit No

TP#17

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447171.47 - 345754.65	Date
		57629	Level: 0.00	28/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	2.8	Scale 1:25
Client:	Broxtowe Borough Council	Depth 1.90		Logged MC



Remarks:	
Stability:	Stable





Trial Pit Log

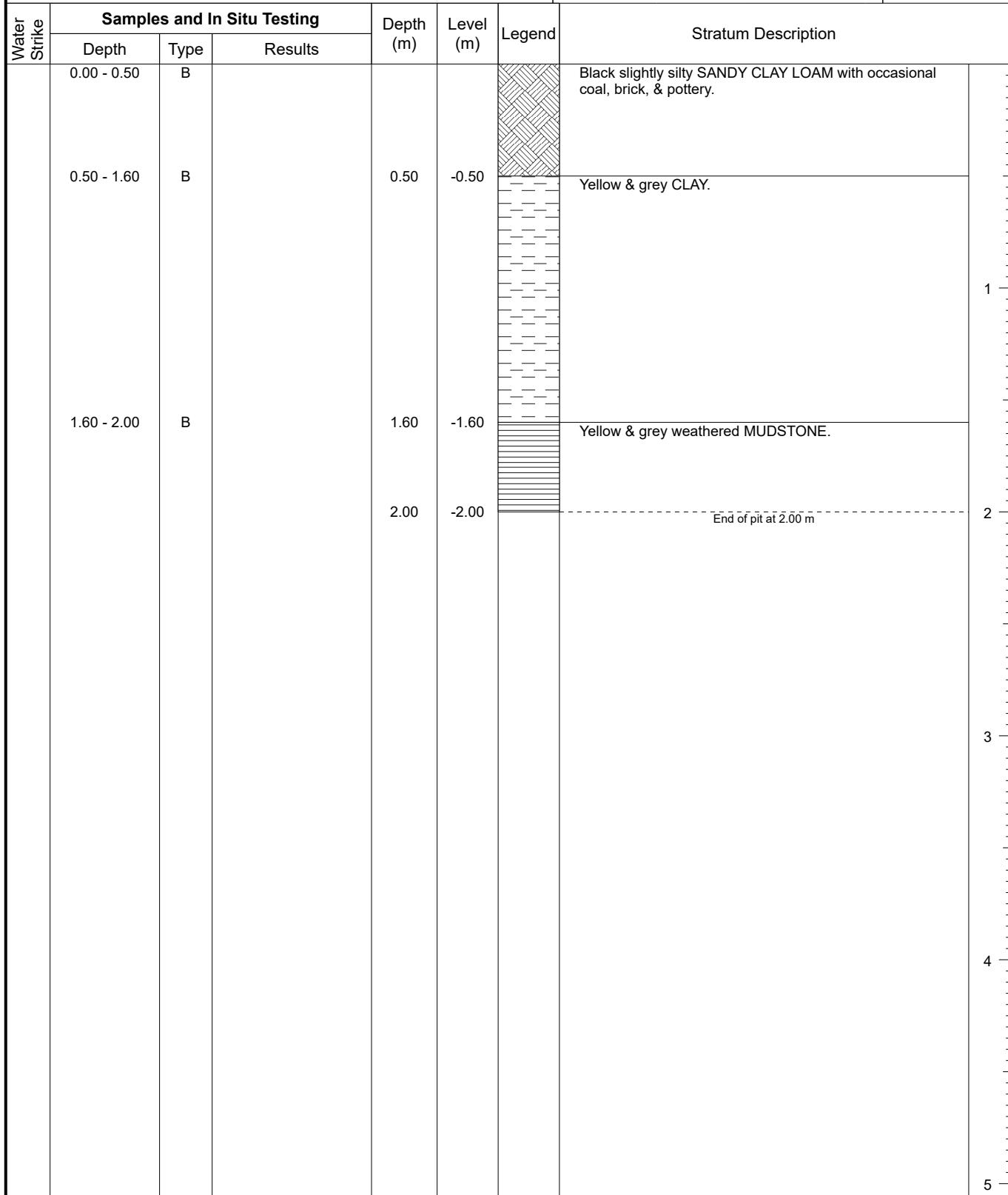
Trialpit No

TP#18

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447253.35 - 345735.74	Date
		57629	Level: 0.00	28/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	2.9	Scale 1:25
Client:	Broxtowe Borough Council	Depth 2.00		Logged MC



Remarks:

Stability: Stable





Trial Pit Log

Trialpit No

TP#19

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447096.25 - 345672.40 Level: 0.00		Date 29/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m):	2.9	Scale 1:25
Client: Broxtowe Borough Council						Depth 2.20	-	Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.00 - 0.30	B		0.30	-0.30		Brown slightly silty SANDY CLAY LOAM with occasional coal & pottery.	
	0.30 - 0.80	B		0.80	-0.80		Orange brown slightly sandy & silty CLAY.	
	0.80 - 1.60	B		1.60	-1.60		Orangey grey brown weathered SANDSTONE.	
	1.60 - 2.20	B		2.20	-2.20		Orange SANDSTONE.	
							End of pit at 2.20 m	
Remarks:								
Stability: Stable								



Trial Pit Log

Trialpit No

TP#20

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447106.01 - 345558.85 Level: 0.00		Date 29/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 2.9 Depth 2.30		Scale 1:25
Client: Broxtowe Borough Council								Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.00 - 0.35	B			-0.35		Brown slightly silty SANDY CLAY LOAM with occasional coal & pottery.	
	0.35 - 1.20	B		0.35	-0.35		Yellow slightly silty CLAY.	
	1.20 - 1.90	B	HVR=62 HVR=68 HVR=72 HVR=73 HVR=88	1.20	-1.20		Grey & yellow layered & weathered MUDSTONE.	
	1.90 - 2.30	B		1.90	-1.90		Orange SANDSTONE.	
				2.30	-2.30		End of pit at 2.30 m	
Remarks:								
Stability: Stable								



Trial Pit Log

Trialpit No

TP#21

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447145.91 - 345672.57 Level: 0.00		Date 29/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m):	2.8	Scale 1:25
Client: Broxtowe Borough Council						Depth 2.05	-	Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.00 - 0.30	B		0.30	-0.30		Brown slightly silty SANDY CLAY LOAM with occasional coal & brick.	1
	0.30 - 1.40	B		1.40	-1.40		Orangey brown slightly sandy silty CLAY.	2
	1.40 - 2.05	B		2.05	-2.05		Orangey grey brown weathered SANDSTONE. End of pit at 2.05 m	3 4 5
Remarks:								
Stability: Stable								



Trial Pit Log

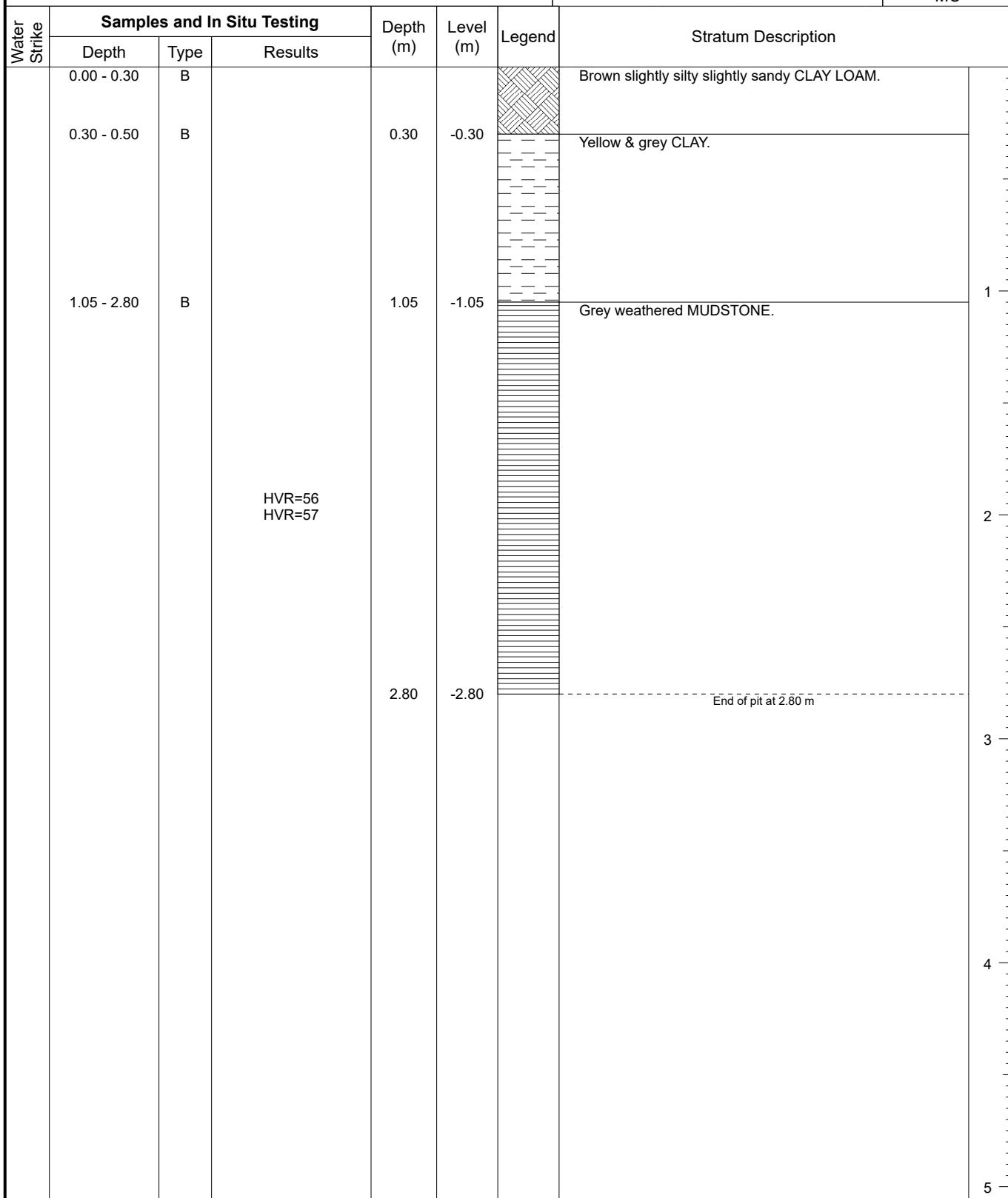
Trialpit No

TP#22

Sheet 1 of 1

Project Name:	Eastwood Landfill	Project No.	Co-ords: 447050.27 - 345530.60	Date
		57629	Level: 0.00	29/03/2018

Location:	Eastwood Landfill, Nottinghamshire	Dimensions (m):	2.9	Scale 1:25
Client:	Broxtowe Borough Council	Depth	2.80	Logged MC



Remarks:	Water seepage at 1.05 m - Base of yellow and grey CLAY	
Stability:	Stable	



Trial Pit Log

Trialpit No

TP#23

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447063.73 - 345489.51 Level: 0.00		Date 29/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m):	2.9	Scale 1:25
Client: Broxtowe Borough Council						Depth 2.50	-	Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.00 - 0.30	B		0.30	-0.30		Brown slightly silty SANDY CLAY LOAM.	
	0.30 - 1.00	B		1.00	-1.00		Yellow CLAY.	
	1.00 - 1.90	B	HVR=50 HVR=50 HVR=62 HVR=62	1.90	-1.90		Grey laminated CLAY.	
	2.00 - 2.50	B		2.00	-2.00		COAL.	
				2.50	-2.50		Grey weathered MUDSTONE.	
							End of pit at 2.50 m	
Remarks:								
Stability: Stable								



Trial Pit Log

Trialpit No

TP#24

Sheet 1 of 1

Project Name: Eastwood Landfill			Project No. 57629			Co-ords: 447026.13 - 345485.05 Level: 0.00			Date 29/03/2018
Location: Eastwood Landfill, Nottinghamshire						Dimensions (m): 3.2			Scale 1:25
Client: Broxtowe Borough Council						Depth 2.50			Logged MC
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.00 - 0.30	B		0.30	-0.30		Brown slightly silty SANDY CLAY LOAM.		
	0.30 - 0.60	B		0.60	-0.60		Yellow CLAY.		
	0.60 - 2.20	B		2.20	-2.20		Grey laminated CLAY.		
				2.40	-2.40		COAL.		
				2.50	-2.50		Grey weathered MUDSTONE. End of pit at 2.50 m		
									1
									2
									3
									4
									5
Remarks:									
Stability: Stable									

Appendix 3

Monitoring Results

Gas Monitoring Results

Site:	Eastwood	Technician	MC & RC	Weather	sunny, overcast, warm	Round	1 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	16/04/2018 09:27	0	1.4	19.7	0	1.4	19.6	999	-0.01	<0.1	0	0
BH000001	16/04/2018 09:39	0	2	18.2	0	2	18	999	0	<0.1	0	0
BH000003	16/04/2018 09:54	0	0.2	11.6	0	0.2	11.5	999	-1.99	-10.4	0	0
BH000015	16/04/2018 10:05	0	0	20.6	0	0.1	19	999	0.07	<0.1	0	0
BH000004	16/04/2018 10:20	0	0.6	20.5	0	0.6	20.1	999	0.18	-4.2	0	0
BH000017	16/04/2018 10:29	0	0.1	21.1	0	0.1	20.5	1000	0.01	<0.1	0	0
BH000005	16/04/2018 10:40	0	1.6	19	0	1.6	19	999	0.05	<0.1	0	0
BH000018	16/04/2018 11:06	0	0.6	20.4	0	0.6	20.3	1000	0.02	<0.1	0	0
BH000014	16/04/2018 11:15	0	0	15.7	0	0	15.6	1000	0.27	<0.1	0	0
BH000006	16/04/2018 11:22	Borehole Flooded										
BH000007	16/04/2018 11:28	85.4	4	0.7	86.8	4	0.4	1000	0.02	<0.1	0	0
BH000008	16/04/2018 11:39	0	0	20.1	0	0	18.5	1000	0.02	<0.1	0	0
BH000019	16/04/2018 11:50	0	0.2	20.8	0	0.2	20.4	1000	-0.01	<0.1	0	0
BH000016	16/04/2018 12:09	0	0.9	20.5	0	0.9	20.2	1000	-0.06	<0.1	0	0
BH000020	16/04/2018 12:17	0	3.3	17.2	0	3.3	17.1	1000	-0.01	<0.1	10	0
BH000009	16/04/2018 12:25	0	0.7	19.4	0	0.7	18.9	1001	0.04	<0.1	10	0
BH000010	16/04/2018 12:40	0	0.1	21	0	0.1	20.2	1001	0	<0.1	5	0
BH000011	16/04/2018 12:54	0	0	20.4	0	0	20.3	1001	3.98	<0.1	8	0
BH000021	16/04/2018 13:03	0	0	20.9	0	0	20.7	1002	-0.08	<0.1	15	0
BH000012	16/04/2018 13:13	0	1.1	19.9	0	1.1	19.9	1002	-0.04	<0.1	9	0
BH000022	16/04/2018 13:24	0	0.5	20.5	0	0.5	20.4	1002	-0.06	<0.1	2	0
BH000013	16/04/2018 13:36	0	0	21	0	0	20.6	1003	0.03	<0.1	0	0

Notes:

Boreholes 3 and 4 note negative flow rates and these were noticeable due to evidence of suction on the borehole bung.

Water Monitoring Results

Site:	Eastwood	Technician	MC & RC	Weather	sunny, overcast, warm	Round	1 of 12
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Location	Date & Time	Borehole	Water		Notes
			Depth (m)	Depth (m)	
BH000001	16/04/2018 09:27		3.79	1.64	
BH000002	16/04/2018 09:39		3.75	3.44	
BH000003	16/04/2018 09:54		3.73	2.52	negative flow rate noted by suction on the bung
BH000015	16/04/2018 10:05		3.95	3.91	
BH000004	16/04/2018 10:20		4.41	1.30	negative flow rate noted by slight suction on the bung
BH000017	16/04/2018 10:29		3.71	0.90	
BH000005	16/04/2018 10:40		3.90	1.86	
BH000018	16/04/2018 11:06		3.90	1.30	
BH000014	16/04/2018 11:15		3.47	0.85	
BH000006	16/04/2018 11:22				Borehole Flooded
BH000007	16/04/2018 11:28		2.19	1.86	
BH000008	16/04/2018 11:39		1.48	1.25	
BH000019	16/04/2018 11:50		0.23	0.07	
BH000016	16/04/2018 12:09		18.47	12.39	Existing borehole
BH000020	16/04/2018 12:17		2.77	dry	
BH000009	16/04/2018 12:25		2.80	dry	
BH000010	16/04/2018 12:40		3.61	dry	
BH000011	16/04/2018 12:54		2.74	0.80	
BH000021	16/04/2018 13:03		2.71	0.78	
BH000012	16/04/2018 13:13		3.30	1.11	
BH000022	16/04/2018 13:24		3.20	1.64	
BH000013	16/04/2018 13:36		4.03	0.44	

Notes:

Boreholes 3 and 4 note negative flow rates and these were noticeable due to evidence of suction on the borehole bung.

Gas Monitoring Results

Site:	Eastwood	Technician	MC & SJ	Weather	sunny, overcast, warm	Round	2 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	04/05/2018 11:13	0	3.9	5.3	0	4	5.1	1012	0	<0.1	0	0
BH000001	04/05/2018 10:51	0	3.3	16.3	0	3.4	16.2	1012	-0.54	-9.5	0	0
BH000003	04/05/2018 11:37	0	2.1	4.8	0	2.1	4.8	1012	-0.32	-6.4	0	0
BH000015	04/05/2018 11:54	0	0	19.4	0	0	18.8	1013	0	<0.1	0	0
BH000004	04/05/2018 12:02	0	4.4	4.5	0	4.3	4.5	1013	-0.01	<0.1	0	0
BH000017	04/05/2018 12:09	0	1.8	19.1	0	1.8	19.1	1013	-0.02	<0.1	0	0
BH000005	04/05/2018 12:15	0	1.2	19.3	0	1.6	18.5	1014	-0.02	<0.1	2	0
BH000018	04/05/2018 12:32	0	0.6	20.4	0	0.6	20.3	1000	0.02	<0.1	0	0
BH000014	04/05/2018 12:39	0	0	15.7	0	0	15.6	1000	0.27	<0.1	0	0
BH000006	04/05/2018 12:26	0	0	20.7	0	0	20.3	1014	0	<0.1	4	
BH000007	04/05/2018 12:51	63.7	3.6	3.6	65.5	3.7	3.5	1014	-0.06	<0.1	0	0
BH000008	04/05/2018 13:00	0	1	19.1	0.1	1	19	1014	-0.06	<0.1	0	0
BH000019	04/05/2018 13:17	0	0.7	19.9	0	0.7	19.9	1014	2.82	<0.1	0	0
BH000016	04/05/2018 13:25	0	0.9	19.8	0	0.9	19.8	1014	0.01	<0.1	4	0
BH000020	04/05/2018 13:34	0	3.5	16.4	0	3.5	16.4	1013	1.42	<0.1	15	0
BH000009	04/05/2018 13:40	0	0.9	19.1	0	0.9	19	1014	-0.09	<0.1	13	0
BH000010	04/05/2018 13:49	0	1	19.2	0	1.3	18.6	1014	-0.1	<0.1	9	0
BH000011	04/05/2018 13:54	0	1.1	19.8	0	1.1	19.8	1014	-0.11	<0.1	7	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	04/05/2018 14:07	0	2	18.9	0	2	18.9	1014	-0.11	<0.1	16	0
BH000022	04/05/2018 14:16	0	0.8	20.6	0	0.8	20.6	1015	-0.12	<0.1	9	0
BH000013	04/05/2018 14:25	0	0	21.2	0	0	20.9	1015	-0.06	-7	6	0

Notes:

Boreholes 21 destroyed; Borehole 12 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC & SJ	Weather	sunny, overcast, warm	Round	2 of 12
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Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	04/05/2018 11:13	3.79	2.17	
BH000001	04/05/2018 10:51	3.75	0.43	negative flow rate noted by suction on the bung
BH000003	04/05/2018 11:37	3.73	2.73	negative flow rate noted by suction on the bung
BH000015	04/05/2018 11:54	3.95	3.80	
BH000004	04/05/2018 12:02	4.41	2.87	
BH000017	04/05/2018 12:09	3.71	1.79	
BH000005	04/05/2018 12:15	3.90	2.55	
BH000018	04/05/2018 12:32	3.90	1.45	
BH000014	04/05/2018 12:39	3.47	1.48	
BH000006	04/05/2018 12:26	3.69	0.34	
BH000007	04/05/2018 12:51	2.19	3.86	
BH000008	04/05/2018 13:00	1.48	3.79	
BH000019	04/05/2018 13:17	0.23	3.83	
BH000016	04/05/2018 13:25	18.47	12.78	Existing borehole
BH000020	04/05/2018 13:34	2.77	dry	
BH000009	04/05/2018 13:40	2.80	dry	
BH000010	04/05/2018 13:49	3.61	dry	
BH000011	04/05/2018 13:54	2.74	2.00	
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism
BH000012	04/05/2018 14:07	3.30	1.42	Borehole Tampered with
BH000022	04/05/2018 14:16	3.20	1.60	
BH000013	04/05/2018 14:25	4.03	0.74	

Notes:

Boreholes 21 destroyed; Borehole 12 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC & JB	Weather	sunny, warm	Round	3 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	18/05/2018 10:02	0.1	0.9	20	0.1	0.9	19.8	1015	3.79	<0.1	0	0
BH000001	18/05/2018 9:47	0.1	4	15.2	0.1	4	15.1	1015	0	<0.1	0	0
BH000003	18/05/2018 10:12	0	4.1	1.7	0.1	4.1	1.5	1016	-0.01	<0.1	0	0
BH000015	18/05/2018 10:21	0	0.2	19.5	0	0.2	17.3	1016	-0.03	<0.1	0	0
BH000004	18/05/2018 10:31	0	3.9	11	0	3.9	10.9	1015	-0.02	<0.1	0	0
BH000017	18/05/2018 10:41	0	1.8	19.7	0	1.8	19.6	1015	3.98	<0.1	0	0
BH000005	18/05/2018 10:49	0	1.7	19.1	0	1.7	19.1	1016	-0.04	<0.1	3	0
BH000018	18/05/2018 11:11	0	1.3	20.1	0	1.3	20.1	1016	1.13	<0.1	2	0
BH000014	18/05/2018 11:19	0	0.6	13.9	0	0.6	13.9	1016	-0.06	<0.1	0	0
BH000006	18/05/2018 11:00	0	4	18	0	4	18	1016	3.9	<0.1	6	0
BH000007	18/05/2018 11:26	17.6	1.7	14.7	17.6	1.9	14.3	1017	-0.1	<0.1	0	0
BH000008	18/05/2018 11:48	0	2.1	17.6	0.3	2.1	17.6	1018	-0.1	<0.1	0	0
BH000019	18/05/2018 11:54	0	0.3	20.3	0	2.1	17.4	1017	0.89	<0.1	1	0
BH000016	18/05/2018 12:08	0	0	21.3	0	0	20.9	1016	-0.13	0	2	0
BH000020	18/05/2018 12:23	0	0	21.1	0	0	20.9	1016	-0.14	<0.1	0	0
BH000009	18/05/2018 12:34	0	1	20.4	0	1	20.5	1017	-0.14	<0.1	0	0
BH000010	18/05/2018 12:42	0	0.3	20.9	0	0.5	20.5	1017	-0.16	<0.1	1	0
BH000011	18/05/2018 13:03	0	0.8	20.7	0	0.8	20.8	1017	-0.16	0	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	18/05/2018 13:17	0	1.7	19.8	0	2	19.6	1017	-0.15	<0.1	0	0
BH000022	18/05/2018 13:26	0	0.4	20.9	0	1.7	19.6	1018	0.25	<0.1	0	0
BH000013	18/05/2018 13:36	0	0	21.4	0	0	20.5	1018	-0.18	-1.5	1	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12 & 20 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC & JB	Weather	sunny, warm	Round	3 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	18/05/2018 10:02		3.79	2.35	
BH000001	18/05/2018 9:47		3.75	3.37	
BH000003	18/05/2018 10:12		3.73	3.46	
BH000015	18/05/2018 10:21		3.95	Dry	
BH000004	18/05/2018 10:31		4.41	4.02	
BH000017	18/05/2018 10:41		3.71	2.33	
BH000005	18/05/2018 10:49		3.90	3.65	
BH000018	18/05/2018 11:11		3.90	1.56	
BH000014	18/05/2018 11:19		3.47	2.39	
BH000006	18/05/2018 11:00		3.69	1.86	
BH000007	18/05/2018 11:26		2.19	2.67	
BH000008	18/05/2018 11:48		1.48	1.63	
BH000019	18/05/2018 11:54		0.23	0.61	
BH000016	18/05/2018 12:08		18.47	12.81	Existing borehole
BH000020	18/05/2018 12:23		2.77	Dry	Borehole Tampered with
BH000009	18/05/2018 12:34		2.80	Dry	
BH000010	18/05/2018 12:42		3.61	Dry	Borehole Tampered with
BH000011	18/05/2018 13:03		2.74	2.22	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism				Borehole Destroyed by Vandalism
BH000012	18/05/2018 13:17		3.30	1.73	Borehole Tampered with
BH000022	18/05/2018 13:26		3.20	1.60	
BH000013	18/05/2018 13:36		4.03	1.04	negative flow rate noted by suction on the bung

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12 & 20 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC & JB	Weather	sunny, warm	Round	4 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	(mbar)	pressure	flow	(ppm)		
BH000002	01/06/2018 9:33	0	1.7	18.4	0.1	1.8	18.2	1008	-0.05	0.01	0	0
BH000001	01/06/2018 9:26	0.1	0.5	20.6	0.1	0.5	20.5	1008	-0.06	0.01	0	0
BH000003	01/06/2018 9:41	0	5.2	0.4	0.1	5.2	0.3	1008	-0.05	0.01	0	0
BH000015	01/06/2018 9:47	0	0.5	20.3	0.1	0.5	18	1008	-0.01	0.01	0	0
BH000004	01/06/2018 9:55	0	4.2	15.9	0	4.1	15.7	1008	-0.02	0.01	0	0
BH000017	01/06/2018 10:03	0	1.7	19.8	0.1	1.7	19.8	1008	-0.02	-0.01	0	0
BH000005	01/06/2018 10:10	0	2.7	18.7	0	2.7	18.3	1008	-0.01	0.01	2	0
BH000018	01/06/2018 10:26	0	1.1	20.5	0	1.1	20.3	1009	0.03	-0.01	2	0
BH000014	01/06/2018 10:32	0	1.3	17.7	0	1.3	17.6	1008	0	-0.01	1	0
BH000006	01/06/2018 10:17	0	0	21.2	0	0	20.4	1008	0.04	0.01	4	0
BH000007	01/06/2018 10:42	14.9	1.1	16.8	15.1	1.2	16.7	1009	-0.17	0	0	0
BH000008	01/06/2018 10:56	0	1.8	19.4	0.1	1.7	19.3	1009	-0.05	-0.01	0	0
BH000019	01/06/2018 11:05	0	0.5	20.3	0	0.4	20.2	1009	-0.03	-0.21	1	0
BH000016	01/06/2018 11:14	0	0.9	20.2	0	0.9	20	1009	0	-2.1	6	0
BH000020	01/06/2018 11:25	0	2	19.8	0	2	19.8	1008	-0.01	-0.01	5	0
BH000009	01/06/2018 11:33	0	1.1	20.5	0	1.1	20.4	1009	-0.02	0	3	0
BH000010	01/06/2018 11:42	0	2.5	20.1	0	2.5	20.1	1009	-0.08	0	2	0
BH000011	01/06/2018 11:49	0	1.5	19.9	0	1.5	19.9	1009	-0.09	0	1	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	01/06/2018 11:57	0	2.3	19.2	0	2.4	19	1010	-0.04	0	0	0
BH000022	01/06/2018 12:06	0	0.5	20.8	0	0.5	20.6	1010	-0.04	0	0	0
BH000013	01/06/2018 12:14	0	0	21.3	0	0	20.8	1011	-0.07	-5.4	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC & JB	Weather	sunny, warm	Round	4 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	01/06/2018 9:26		3.79	2.38	
BH000001	01/06/2018 9:33		3.75	2.74	
BH000003	01/06/2018 9:41		3.73	3.58	
BH000015	01/06/2018 9:47		3.95	Dry	
BH000004	01/06/2018 9:55		4.41	4.06	
BH000017	01/06/2018 10:03		3.71	2.64	
BH000005	01/06/2018 10:10		3.90	3.79	
BH000018	01/06/2018 10:17		3.90	2.72	
BH000014	01/06/2018 10:26		3.47	1.94	
BH000006	01/06/2018 10:32		3.69	0.51	
BH000007	01/06/2018 10:42		2.19	2.78	Borehole Tampered with
BH000008	01/06/2018 10:56		1.48	1.64	
BH000019	01/06/2018 11:05		0.23	0.75	
BH000016	01/06/2018 11:14		18.47	12.95	Existing borehole, negative flow rate noted by suction on the bung
BH000020	01/06/2018 11:25		2.77	Dry	Borehole Tampered with
BH000009	01/06/2018 11:33		2.80	Dry	
BH000010	01/06/2018 11:42		3.61	Dry	Borehole Tampered with
BH000011	01/06/2018 11:49		2.74	2.57	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism				Borehole Destroyed by Vandalism
BH000012	01/06/2018 11:57		3.30	1.80	Borehole Tampered with
BH000022	01/06/2018 12:06		3.20	1.59	
BH000013	01/06/2018 12:14		4.03	1.22	negative flow rate noted by suction on the bung

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC & RC	Weather	sunny, warm	Round	5 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO	H ₂ S
		%	%	%	%	%	(mbar)				(ppm)	
BH000002	15/06/2018 10:37	0	4.2	10.8	0	4.2	10.6	1007	-0.03	0	0	0
BH000001	15/06/2018 10:28	0	0.2	20.9	0.1	0.2	20.7	1006	-0.03	-0.1	0	0
BH000003	15/06/2018 10:44	0	6.2	0.2	0	6.2	0.2	1007	0.18	-0.1	0	0
BH000015	15/06/2018 10:53	0	0.7	20.6	0	0.7	17.5	1006	1.45	0	0	0
BH000004	15/06/2018 11:05	0	5	14.2	0	5	13.7	1006	2.07	-0.1	0	0
BH000017	15/06/2018 11:16	0	1.6	19.8	0	1.7	19.6	1006	4.93	-0.1	0	0
BH000005	15/06/2018 11:24	0	4.2	14.6	0	4.2	14.6	1006	0.01	-0.1	1	0
BH000018	15/06/2018 11:43	0	3.2	11.8	0	3.4	10.7	1007	-0.01	0	0	0
BH000014	15/06/2018 11:53	0	1.7	18.5	0	1.8	18.5	1007	-0.02	0	0	0
BH000006	15/06/2018 11:34	0	2.9	18.4	0	2.9	18.2	1007	-0.13	-0.1	2	0
BH000007	15/06/2018 12:02	6.6	0.4	19.3	6.6	0.4	19.2	1007	1.8	0	0	0
BH000008	15/06/2018 12:14	0	1.6	19.9	0.3	1.6	19.7	1008	-0.05	0	0	0
BH000019	15/06/2018 12:23	0	0.5	20.3	0.1	0.5	20.3	1007	6.21	0	0	0
BH000016	15/06/2018 12:33	0.1	0.8	20.4	0.1	0.8	20.2	1007	2.2	-1	2	0
BH000020	15/06/2018 12:46	0	3.3	19.9	0.1	3.3	19.9	1006	0.14	0	4	0
BH000009	15/06/2018 12:56	0	1.4	20	0	1.4	19.9	1007	-0.08	0	2	0
BH000010	15/06/2018 13:07	0	0	21.1	0	0	20.6	1007	-0.1	0	1	0
BH000011	15/06/2018 13:18	0.1	0	21.3	0	0	20.9	1008	-0.1	0	1	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	15/06/2018 13:28	0	2	19.9	0	2.1	19.9	1008	-0.11	0	0	0
BH000022	15/06/2018 13:38	0	0	21.4	0.1	0.1	20.7	1008	-0.11	0	0	0
BH000013	15/06/2018 13:51	0.1	0	21.5	0.1	0	20.7	1009	-0.04	-5.3	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC & RC	Weather	sunny, warm	Round	5 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	15/06/2018 10:37	3.79	2.68		
BH000001	15/06/2018 10:28	3.75	3.32		
BH000003	15/06/2018 10:44	3.73	3.88		
BH000015	15/06/2018 10:53	3.95	Dry		
BH000004	15/06/2018 11:05	4.41	4.34		
BH000017	15/06/2018 11:16	3.71	3.21		
BH000005	15/06/2018 11:24	3.90	4.10		
BH000018	15/06/2018 11:43	3.90	3.15		
BH000014	15/06/2018 11:53	3.47	2.36		
BH000006	15/06/2018 11:34	3.69	1.42		
BH000007	15/06/2018 12:02	2.19	2.88	Borehole Tampered with	
BH000008	15/06/2018 12:14	1.48	2.00		
BH000019	15/06/2018 12:23	0.23	1.11		
BH000016	15/06/2018 12:33	18.47	13.86	Existing borehole, negative flow rate noted by suction on the bung	
BH000020	15/06/2018 12:46	2.77	Dry	Borehole Tampered with	
BH000009	15/06/2018 12:56	2.80	Dry		
BH000010	15/06/2018 13:07	3.61	Dry	Borehole Tampered with	
BH000011	15/06/2018 13:18	2.74	2.69	Borehole Tampered with	
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism	
BH000012	15/06/2018 13:28	3.30	2.20	Borehole Tampered with	
BH000022	15/06/2018 13:38	3.20	1.89		
BH000013	15/06/2018 13:51	4.03	1.38	negative flow rate noted by suction on the bung	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC & SO	Weather	sunny, hot	Round	6 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	29/06/2018 11:45	0.1	0	20.7	0.1	0	20.1	1015	-0.04	-0.01	0	0
BH000001	29/06/2018 11:36	0.1	0.2	20.4	0.2	0.3	20.1	1015	-0.08	-0.01	0	0
BH000003	29/06/2018 11:55	0	6	0.3	0.1	6.1	0.3	1016	2.22	-0.01	1	0
BH000015	29/06/2018 12:02	0	0.4	19.6	0.1	0.5	16.4	1016	-0.01	-0.01	0	0
BH000004	29/06/2018 12:08	0	4	17.3	0	3.9	17.2	1016	0	0	0	0
BH000017	29/06/2018 12:15	0	1.5	19.1	0.1	1.5	19.1	1016	1.06	0	0	0
BH000005	29/06/2018 12:21	0	2.4	17.7	0	2.4	17.7	1016	-0.04	0	2	0
BH000018	29/06/2018 12:33	0	0.3	19.9	0	0.3	19.8	1017	-0.02	0	0	0
BH000014	29/06/2018 12:40	0	0.7	19.6	0	0.7	19.6	1016	-0.02	-0.01	0	0
BH000006	29/06/2018 12:27	0	0.9	19.5	0	0.9	19.4	1016	-0.03	-0.01	2	0
BH000007	29/06/2018 12:46	5.5	0.4	18.8	5.6	0.4	18.7	1016	-0.04	0	0	0
BH000008	29/06/2018 12:54	0	1.1	19.6	0.1	1.1	19.5	1017	-0.04	-0.01	0	0
BH000019	29/06/2018 12:58	0	0.9	19.9	0	0.9	19.8	1016	-0.07	-0.01	0	0
BH000016	29/06/2018 13:13	0	0	20.8	0	0	20.4	1016	-0.11	-0.01	1	0
BH000020	29/06/2018 13:23	0	1.8	19.7	0.1	1.7	19.7	1016	-0.1	0	4	0
BH000009	29/06/2018 13:30	0	0	20.5	0.1	0	20.3	1016	-0.14	-0.01	4	0
BH000010	29/06/2018 13:37	0	2.2	19.3	0	2.1	19.3	1016	-0.13	0	1	0
BH000011	29/06/2018 13:45	0.1	0.5	20.4	0.1	0.5	20.4	1017	-0.13	0	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	29/06/2018 13:51	0	1.1	19.8	0.1	1.1	19.7	1016	-0.12	0	0	0
BH000022	29/06/2018 14:00	0.1	0.3	20.7	0.1	0.3	20.5	1017	-0.12	0	0	0
BH000013	29/06/2018 14:07	0.1	0	20.6	0.1	0	20.4	1017	-0.02	-7.9	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC & SO	Weather	sunny, hot	Round	6 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	29/06/2018 11:45		3.79	2.43	
BH000001	29/06/2018 11:36		3.75	3.2	
BH000003	29/06/2018 11:55		3.73	3.59	
BH000015	29/06/2018 12:02		3.95	Dry	
BH000004	29/06/2018 12:08		4.41	4.11	
BH000017	29/06/2018 12:15		3.71	3.09	
BH000005	29/06/2018 12:21		3.90	Dry	
BH000018	29/06/2018 12:33		3.90	3.19	
BH000014	29/06/2018 12:40		3.47	2.21	
BH000006	29/06/2018 12:27		3.69	2.02	
BH000007	29/06/2018 12:46		2.19	2.84	Borehole Tampered with
BH000008	29/06/2018 12:54		1.48	1.83	
BH000019	29/06/2018 12:58		0.23	1.04	
BH000016	29/06/2018 13:13		18.47	13.32	Existing borehole
BH000020	29/06/2018 13:23		2.77	Dry	Borehole Tampered with
BH000009	29/06/2018 13:30		2.80	Dry	
BH000010	29/06/2018 13:37		3.61	Dry	Borehole Tampered with
BH000011	29/06/2018 13:45		2.74	2.48	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism				Borehole Destroyed by Vandalism
BH000012	29/06/2018 13:51		3.30	2.04	Borehole Tampered with
BH000022	29/06/2018 14:00		3.20	1.67	
BH000013	29/06/2018 14:07		4.03	1.33	negative flow rate noted by suction on the bung

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC & JB	Weather	sunny, hot	Round	7 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	13/07/2018 9:28	0.1	2.1	17.9	0.1	2.1	17.8	1013	-0.03	-0.1	0	0
BH000001	13/07/2018 9:22	0.1	0.4	20.8	0.2	0.4	20.8	1013	-0.07	-0.1	0	0
BH000003	13/07/2018 9:36	0.1	1.3	19	0.1	2.1	17.7	1013	0	-0.1	0	0
BH000015	13/07/2018 9:41	0.1	0.4	20.9	0.1	0.5	20.6	1013	0.01	-0.1	0	0
BH000004	13/07/2018 9:48	0.1	2.3	20	0.1	2.3	20	1013	0	-0.1	0	0
BH000017	13/07/2018 9:54	0.1	1.5	20.4	0.1	1.5	20.4	1013	-0.01	-0.1	0	0
BH000005	13/07/2018 9:59	0.1	2.3	19.3	0.1	2.3	19.3	1013	0.03	-0.1	0	0
BH000018	13/07/2018 10:14	0.1	0.5	21	0.1	0.5	21	1014	0.02	-0.1	0	0
BH000014	13/07/2018 10:21	0.1	0.7	20.8	0.1	0.7	20.8	1013	0.01	-0.1	0	0
BH000006	13/07/2018 10:07	0.1	0.9	20.8	0.1	1	20.7	1013	0.01	0	0	0
BH000007	13/07/2018 10:29	3.3	0.7	20.2	3.3	0.8	20.2	1013	-0.03	0	0	0
BH000008	13/07/2018 10:37	0.1	1.5	20.5	0.2	1.5	20.6	1014	-0.04	-0.1	0	0
BH000019	13/07/2018 10:45	0.1	1.8	20.4	0.1	1.8	20.4	1014	-0.05	-0.1	0	0
BH000016	13/07/2018 10:52	0.1	0.1	21.2	0.1	0.1	20.8	1013	-0.05	-0.1	0	0
BH000020	13/07/2018 10:59	0.1	2	20.5	0.1	2	20.5	1013	-0.02	-0.1	0	0
BH000009	13/07/2018 11:06	0.1	0.6	21	0.1	2	20.2	1013	0.11	-0.1	0	0
BH000010	13/07/2018 11:13	0.1	2.5	20.3	0.1	2.5	20.3	1013	-0.08	-0.1	0	0
BH000011	13/07/2018 11:18	0.1	1.9	20	0.1	1.9	20	1014	-0.07	-0.1	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	13/07/2018 11:27	0.1	1.5	20.4	0.1	1.5	20.4	1014	-0.08	0	0	0
BH000022	13/07/2018 11:33	0.1	0.9	20.9	0.1	0.9	20.7	1015	-0.1	-0.1	0	0
BH000013	13/07/2018 11:41	0.1	0	21.1	0.1	0	20.9	1015	-0.08	-2.1	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC & JB	Weather	sunny, hot	Round	7 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	13/07/2018 9:28	3.79	2.42		
BH000001	13/07/2018 9:22	3.75	3.18		
BH000003	13/07/2018 9:36	3.73	3.58		
BH000015	13/07/2018 9:41	3.95	Dry		
BH000004	13/07/2018 9:48	4.41	4.12		
BH000017	13/07/2018 9:54	3.71	3.23		
BH000005	13/07/2018 9:59	3.90	Dry		
BH000018	13/07/2018 10:14	3.90	3.38		
BH000014	13/07/2018 10:21	3.47	2.3		
BH000006	13/07/2018 10:07	3.69	2.5		
BH000007	13/07/2018 10:29	2.19	2.92	Borehole Tampered with	
BH000008	13/07/2018 10:37	1.48	1.87		
BH000019	13/07/2018 10:45	0.23	1.23		
BH000016	13/07/2018 10:52	18.47	13.93	Existing borehole	
BH000020	13/07/2018 10:59	2.77	Dry	Borehole Tampered with	
BH000009	13/07/2018 11:06	2.80	Dry		
BH000010	13/07/2018 11:13	3.61	Dry	Borehole Tampered with	
BH000011	13/07/2018 11:18	2.74	2.5	Borehole Tampered with	
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism	
BH000012	13/07/2018 11:27	3.30	2.14	Borehole Tampered with	
BH000022	13/07/2018 11:33	3.20	1.66		
BH000013	13/07/2018 11:41	4.03	1.4	negative flow rate noted by suction on the bung	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC & JE	Weather	sunny, hot	Round	8 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	27/07/2018 11:14	0	2.1	12	0.1	3.8	11.7	1001	-0.1	-0.1	0	0
BH000001	27/07/2018 11:00	0.1	0.4	20.3	0.1	0.1	20.2	1001	-0.11	-0.1	0	0
BH000003	27/07/2018 11:24	0	1.3	16	0	2.7	15.1	1002	-0.09	0	0	0
BH000015	27/07/2018 11:36	0.1	0.4	19.9	0.1	0.1	19.2	1002	-0.1	0.1	0	0
BH000004	27/07/2018 11:46	0.1	2.3	17.5	0.1	3.6	17.6	1002	-0.12	-0.1	0	0
BH000017	27/07/2018 11:55	0.1	1.5	19.6	0.1	1.3	19.7	1003	-0.11	-0.1	2	0
BH000005	27/07/2018 12:04	0.1	2.3	17.8	0.1	3	17.9	1002	-0.13	-0.1	3	0
BH000018	27/07/2018 12:21	0.1	0.5	18.8	0.1	1.8	18.6	1003	-0.15	-0.2	0	0
BH000014	27/07/2018 12:28	0.1	0.7	20.2	0.1	0.3	20.1	1003	-0.14	-0.2	0	0
BH000006	27/07/2018 12:12	0.1	0.9	20	0.1	0.7	20	1003	-0.14	-0.1	0	0
BH000007	27/07/2018 12:37	3	0.7	19.4	3	0.5	19.5	1003	-0.16	-0.1	0	0
BH000008	27/07/2018 12:45	0.1	1.5	19.6	0.2	1	19.6	1003	-0.19	-0.1	0	0
BH000019	27/07/2018 12:52	0.1	1.8	20	0.1	1	20.1	1003	-0.21	-0.1	2	0
BH000016	27/07/2018 13:07	0.2	0.1	20.7	0.2	0.1	20.5	1003	0.11	-0.5	1	0
BH000020	27/07/2018 13:25	0.2	2	20.1	0.2	2	20.3	1002	-0.22	-0.2	3	0
BH000009	27/07/2018 13:33	0.2	0.6	20.4	0.2	1.5	20.5	1002	-0.22	-0.2	1	0
BH000010	27/07/2018 13:42	0.2	2.5	20.2	0.2	2	20.2	1003	-0.22	-0.3	0	0
BH000011	27/07/2018 13:47	0.2	1.9	20.1	0.2	1.4	20.2	1003	-0.24	-0.2	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	27/07/2018 13:56	0.1	0.2	21.1	0.2	0.2	20.8	1003	-0.24	-0.2	0	0
BH000022	27/07/2018 14:04	0.1	0.8	20.4	0.2	0.8	20.4	1003	-0.25	-0.2	0	0
BH000013	27/07/2018 14:10	0.1	0	21	0.2	0	20.7	1003	-0.23	-1.2	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC & JE	Weather	sunny, hot	Round	8 of 12
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Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	27/07/2018 11:14	3.79	2.68	
BH000001	27/07/2018 11:00	3.75	3.36	
BH000003	27/07/2018 11:24	3.73	3.82	
BH000015	27/07/2018 11:36	3.95	Dry	
BH000004	27/07/2018 11:46	4.41	4.39	
BH000017	27/07/2018 11:55	3.71	3.67	
BH000005	27/07/2018 12:04	3.90	Dry	
BH000018	27/07/2018 12:21	3.90	3.75	
BH000014	27/07/2018 12:28	3.47	2.66	
BH000006	27/07/2018 12:12	3.69	3.22	
BH000007	27/07/2018 12:37	2.19	3.27	Borehole Tampered with
BH000008	27/07/2018 12:45	1.48	2.15	
BH000019	27/07/2018 12:52	0.23	1.58	
BH000016	27/07/2018 13:07	18.47	15.06	Existing borehole, negative flow rate noted by suction on the bung
BH000020	27/07/2018 13:25	2.77	Dry	Borehole Tampered with
BH000009	27/07/2018 13:33	2.80	Dry	
BH000010	27/07/2018 13:42	3.61	Dry	Borehole Tampered with
BH000011	27/07/2018 13:47	2.74	2.77	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism
BH000012	27/07/2018 13:56	3.30	2.08	Borehole Tampered with
BH000022	27/07/2018 14:04	3.20	1.88	
BH000013	27/07/2018 14:10	4.03	1.63	negative flow rate noted by suction on the bung

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC & JB	Weather	sunny, hot	Round	9 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO (ppm)	H ₂ S
		%	%	%	%	%	%	(mbar)				
BH000002	10/08/2018 10:28	0.1	0	20.8	0.1	0	20.6	1001	-10.95	-0.1	0	0
BH000001	10/08/2018 10:20	0.1	0	21	0.1	0.2	20.5	1001	-0.05	-0.1	0	0
BH000003	10/08/2018 10:32	0.1	0.4	20.3	0.2	0.6	20	1002	-0.4	-0.1	0	0
BH000015	10/08/2018 10:39	0.1	0	20.6	0.1	0.1	20.5	1002	0	0.1	0	0
BH000004	10/08/2018 10:50	0.1	1.3	20.2	0.1	1.2	20.2	1002	-0.01	-0.1	0	0
BH000017	10/08/2018 11:00	0.1	1.1	20.3	0.1	1.2	20.3	1003	-0.07	-0.1	0	0
BH000005	10/08/2018 11:05	0.1	2.9	18.7	0.1	2.8	18.8	1002	-0.08	-0.1	0	0
BH000018	10/08/2018 11:23	0.1	0.5	20.6	0.1	0.6	20.6	1003	2.46	0	0	0
BH000014	10/08/2018 11:30	0.1	0.2	20.9	0.1	0.2	20.7	1003	-0.12	0	0	0
BH000006	10/08/2018 11:16	0.1	0.7	20.6	0.1	0.7	20.5	1003	1.07	-0.1	0	0
BH000007	10/08/2018 11:35	2.6	0.5	20.2	2.6	0.5	20.1	1003	3.86	-0.1	0	0
BH000008	10/08/2018 11:43	0.1	1	20.6	0.1	1	20.6	1003	-0.07	-0.1	0	0
BH000019	10/08/2018 11:46	0.1	1	20.7	0.1	1	20.7	1003	-0.13	-0.1	0	0
BH000016	10/08/2018 11:53	0.1	0	21.4	0.1	0	21	1003	-0.13	-0.2	0	0
BH000020	10/08/2018 12:00	0.1	2.4	20.7	0.1	2.4	20.7	1002	-0.12	-0.1	0	0
BH000009	10/08/2018 12:06	0.1	1.3	20.5	0.1	1.3	20.5	1002	-0.13	-0.1	0	0
BH000010	10/08/2018 12:11	0.1	0.1	21.4	0.1	0.1	21.1	1003	-0.14	-0.1	0	0
BH000011	10/08/2018 12:16	0.1	1.4	20.6	0.1	1.4	20.6	1003	-0.1	-0.1	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	10/08/2018 12:21	0.1	0.6	21.1	0.1	0.7	21.1	1003	-0.11	-0.1	0	0
BH000022	No Result											
BH000013	10/08/2018 12:32	0.1	0.1	21.6	0.1	0.1	21.6	1003	-8.87	-1.2	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC & JB	Weather	sunny, hot	Round	9 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	10/08/2018 10:28	3.79	1.92		
BH000001	10/08/2018 10:20	3.75	3.1		
BH000003	10/08/2018 10:32	3.73	3.57		
BH000015	10/08/2018 10:39	3.95	Dry		
BH000004	10/08/2018 10:50	4.41	4.15		
BH000017	10/08/2018 11:00	3.71	3.45		
BH000005	10/08/2018 11:05	3.90	Dry		
BH000018	10/08/2018 11:23	3.90	3.61		
BH000014	10/08/2018 11:30	3.47	2.39		
BH000006	10/08/2018 11:16	3.69	3.04		
BH000007	10/08/2018 11:35	2.19	3.05	Borehole Tampered with	
BH000008	10/08/2018 11:43	1.48	1.91		
BH000019	10/08/2018 11:46	0.23	1.41		
BH000016	10/08/2018 11:53	18.47	14.62	Existing borehole	
BH000020	10/08/2018 12:00	2.77	Dry	Borehole Tampered with	
BH000009	10/08/2018 12:06	2.80	Dry		
BH000010	10/08/2018 12:11	3.61	Dry	Borehole Tampered with	
BH000011	10/08/2018 12:16	2.74	2.51	Borehole Tampered with	
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism	
BH000012	10/08/2018 12:21	3.30	1.58	Borehole Tampered with	
BH000022	10/08/2018 12:27	3.20	1.65		
BH000013	10/08/2018 12:32	4.03	1.51	negative flow rate noted by suction on the bung	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	RC	Weather	rain, wet			Round	10 of 12
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Location	Date & Time	CH₄	CO₂	O₂	Peak CH4	Peak CO₂	Min O₂	Pressure	relative pressure	internal flow	CO	H₂S
		%	%	%	%	%	%	(mbar)			(ppm)	
BH000002	24/08/2018 9:19	0.1	2.3	17.6	0.1	2.5	17.1	1002	-0.01	0	0	0
BH000001	24/08/2018 9:09	0.1	0.1	21	0.1	0.1	21	1001	-0.05	0	0	0
BH000003	24/08/2018 9:29	0.1	0.4	20.9	0.1	0.4	20.4	1002	2.08	0	0	0
BH000015	24/08/2018 9:38	0.1	0.1	21.1	0.1	0.1	21	1002	3.94	0	0	0
BH000004	24/08/2018 9:49	0.1	4	16	0.1	4	15.9	1002	0.01	0	0	0
BH000017	24/08/2018 10:00	0.1	1.2	20.2	0.1	1.2	20	1002	2.97	0	0	0
BH000005	24/08/2018 10:15	0.1	3.4	18.1	0.1	3.4	18	1001	0	0	0	0
BH000018	24/08/2018 10:40	0	1.4	19.4	0	1.4	19.4	1002	-0.02	0	0	0
BH000014	24/08/2018 10:52	0	0.2	21	0	0.2	20.9	1002	-0.12	0	0	0
BH000006	24/08/2018 10:27	0	0.9	20.3	0.1	0.9	20.3	1002	-0.01	0	0	0
BH000007	24/08/2018 11:00	2.6	0.6	19.8	2.6	0.7	19.7	1002	2.94	0	0	0
BH000008	24/08/2018 11:10	0	1.1	20.1	0.1	1.1	20.1	1003	-0.05	0	0	0
BH000019	24/08/2018 11:20	0	0.9	20.5	0	0.9	20.4	1003	0	0	0	0
BH000016	24/08/2018 11:31	0	0.9	18.8	0	0.9	18.6	1002	-0.08	0	0	0
BH000020	24/08/2018 11:43	0	2.5	20.3	0	2.4	20.3	1002	-0.08	-0.6	0	0
BH000009	24/08/2018 12:24	0	0.8	20.4	0	0.8	20.4	1002	-0.15	0	0	0
BH000010	24/08/2018 12:39	0	0	21.3	0	0	20.6	1002	-0.12	0	0	0
BH000011	24/08/2018 12:45	0	1.6	20.2	0	1.6	20.1	1002	1.48	0	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	24/08/2018 13:03	0	1.1	20.5	0	1.1	20.4	1003	284.32	0	0	0
BH000022	24/08/2018 13:11	0	1	20.6	0	1	20.6	1003	0.08	0	0	0
BH000013	24/08/2018 13:26	0	0.1	21	0	0.1	21	1003	-0.03	0	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	RC	Weather	rain, wet	Round	10 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	24/08/2018 9:19		3.79	2.72	
BH000001	24/08/2018 9:09		3.75	3.37	
BH000003	24/08/2018 9:29		3.73	3.83	
BH000015	24/08/2018 9:38		3.95	Dry	
BH000004	24/08/2018 9:49		4.41	4.3	
BH000017	24/08/2018 10:00		3.71	3.86	
BH000005	24/08/2018 10:15		3.90	Dry	
BH000018	24/08/2018 10:40		3.90	3.76	
BH000014	24/08/2018 10:52		3.47	2.8	
BH000006	24/08/2018 10:27		3.69	3.57	
BH000007	24/08/2018 11:00		2.19	3.41	Borehole Tampered with
BH000008	24/08/2018 11:10		1.48	2.29	
BH000019	24/08/2018 11:20		0.23	1.77	
BH000016	24/08/2018 11:31		18.47	Dry	Existing borehole
BH000020	24/08/2018 11:43		2.77	Dry	Borehole Tampered with, negative flow rate noted by suction on the bung
BH000009	24/08/2018 12:24		2.80	Dry	
BH000010	24/08/2018 12:39		3.61	Dry	Borehole Tampered with
BH000011	24/08/2018 12:45		2.74	2.78	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism				Borehole Destroyed by Vandalism
BH000012	24/08/2018 13:03		3.30	2.54	Borehole Tampered with
BH000022	24/08/2018 13:11		3.20	2	
BH000013	24/08/2018 13:26		4.03	1.75	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC/JB	Weather	Sunny, Damp	Round	11 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	07/09/2018 10:24	0.1	2.6	16.7	0.2	2.6	16.7	1002	-0.04	-0.2	0	0
BH000001	07/09/2018 10:29	0.1	0.2	21	0.1	0.2	20.5	1003	0.02	-0.2	0	0
BH000003	07/09/2018 10:34	0.1	0.7	20.3	0.1	0.8	20.2	1002	-0.03	-0.2	0	0
BH000015	07/09/2018 10:38	0.1	0.1	21	0.1	0.1	20.7	1003	0.03	-0.2	0	0
BH000004	07/09/2018 10:44	0.1	2.6	18.2	0.1	2.6	18.1	1002	-0.03	-0.1	0	0
BH000017	07/09/2018 10:48	0.1	1.2	20.4	0.1	1.2	20.2	1002	-0.03	-0.1	0	0
BH000005	07/09/2018 10:53	0.1	3.1	18.9	0.1	3	18.7	1002	-0.04	-0.1	0	0
BH000018	07/09/2018 11:05	0.1	1.8	18.8	0.1	1.8	18.6	1003	-0.02	-0.1	0	0
BH000014	07/09/2018 11:11	0.1	0.3	21	0.1	0.4	20.5	1003	-0.05	-0.1	0	0
BH000006	07/09/2018 10:59	0.1	0.8	20.6	0.1	0.8	20.5	1003	-0.04	-0.1	0	0
BH000007	07/09/2018 11:17	2.6	0.4	20.3	2.6	0.4	20.2	1003	-0.03	-0.1	0	0
BH000008	07/09/2018 11:21	0.1	1	20.8	0.1	1	20.7	1003	0	-0.1	0	0
BH000019	07/09/2018 11:27	0.1	1	20.8	0.1	1	20.7	1003	-0.05	-0.2	0	0
BH000016	07/09/2018 11:35	0.1	0.9	18.8	0.1	0.9	18.8	1002	0.02	-0.1	0	0
BH000020	07/09/2018 11:41	0.1	2	20.4	0.1	2	20.3	1002	-0.05	-0.1	0	0
BH000009	07/09/2018 11:46	0.1	1.5	20.2	0.1	1.5	20.1	1003	-0.04	-0.1	0	0
BH000010	07/09/2018 11:51	0.1	0	21.4	0.1	0	20.9	1003	-0.05	-0.1	0	0
BH000011	07/09/2018 11:55	0.1	1.4	20.4	0.1	1.4	20.4	1003	0.01	-0.2	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	07/09/2018 12:00	0.1	1.1	20.6	0.1	1.1	20.5	1003	1.34	-0.1	0	0
BH000022	07/09/2018 12:07	0.1	1.5	20.3	0.1	1.5	20.3	1004	0.55	-0.22	0	0
BH000013	07/09/2018 12:15	0.1	0.1	21.2	0.1	0.1	20.8	1005	-0.05	-1.5	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC/JB	Weather	Sunny, Damp	Round	11 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	07/09/2018 10:24		3.79	2.46	
BH000001	07/09/2018 10:29		3.75	3.2	
BH000003	07/09/2018 10:34		3.73	3.59	
BH000015	07/09/2018 10:38		3.95	Dry	
BH000004	07/09/2018 10:44		4.41	4.19	
BH000017	07/09/2018 10:48		3.71	3.6	
BH000005	07/09/2018 10:53		3.90	Dry	
BH000018	07/09/2018 11:05		3.90	3.74	
BH000014	07/09/2018 11:11		3.47	2.63	
BH000006	07/09/2018 10:59		3.69	2.74	
BH000007	07/09/2018 11:17		2.19	3.19	Borehole Tampered with
BH000008	07/09/2018 11:21		1.48	2.03	
BH000019	07/09/2018 11:27		0.23	1.56	
BH000016	07/09/2018 11:35		18.47	14.83	Existing borehole
BH000020	07/09/2018 11:41		2.77	Dry	Borehole Tampered with
BH000009	07/09/2018 11:46		2.80	Dry	
BH000010	07/09/2018 11:51		3.61	Dry	Borehole Tampered with
BH000011	07/09/2018 11:55		2.74	2.55	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism				Borehole Destroyed by Vandalism
BH000012	07/09/2018 12:00		3.30	1.99	Borehole Tampered with
BH000022	07/09/2018 12:07		3.20	1.82	
BH000013	07/09/2018 12:15		4.03	1.62	Negative flow rate noted by suction on the bung

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC/JB	Weather	Sunny, Damp	Round	12 of 12
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	21/09/2018 9:28	0.1	1.9	19.1	0.1	1.9	19.1	992	-0.02	-0.1	0	0
BH000001	21/09/2018 9:31	0.2	0.3	20.8	0.2	0.3	20.6	992	-0.05	-0.1	0	0
BH000003	21/09/2018 9:34	0.1	0.4	21.2	0.1	0.4	20.6	993	-0.04	-0.1	0	0
BH000015	21/09/2018 9:38	0.1	0.1	21.3	0.1	0.1	20.9	992	0.04	-0.2	0	0
BH000004	21/09/2018 9:43	0.1	0	21.5	0.1	0	20.9	992	0	-0.1	0	0
BH000017	21/09/2018 9:47	0.1	1	20.8	0.1	0.9	20.7	992	0.04	-0.1	0	0
BH000005	21/09/2018 9:53	0.1	4.1	18.2	0.1	4.1	18.2	992	0.03	-0.1	0	0
BH000018	21/09/2018 10:03	0.1	3.8	16.2	0.1	3.8	16.3	993	0.02	-0.1	0	0
BH000014	21/09/2018 10:07	0.1	0.4	21.3	0.1	0.4	20.6	993	0	-0.2	0	0
BH000006	21/09/2018 9:57	0.1	0.3	21.1	0.1	0.4	20.7	992	0.02	-0.2	0	0
BH000007	21/09/2018 10:12	3.3	1	19.1	3.3	1	19	993	0.03	-0.1	0	0
BH000008	21/09/2018 10:18	0.1	1.1	20.6	0.1	1.1	20.6	993	-0.01	-0.1	0	0
BH000019	21/09/2018 10:23	0.1	0.7	20.9	0.1	0.7	20.9	993	0	-0.3	0	0
BH000016	21/09/2018 10:28	0.1	0.6	20.3	0.1	0.6	20.2	993	-0.06	0	0	0
BH000020	21/09/2018 10:34	0.1	2.3	20.6	0.1	2.3	20.6	992	-0.01	-0.1	0	0
BH000009	21/09/2018 10:40	0.1	0.6	21.2	0.1	0.6	20.9	993	0.08	-0.1	0	0
BH000010	21/09/2018 10:43	0.1	0	21.6	0.1	0	21.1	993	0.04	-0.1	0	0
BH000011	21/09/2018 10:49	0.1	1	20.8	0.1	1	20.6	993	0.03	-0.1	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	21/09/2018 10:56	0.1	1	20.8	0.1	1	20.8	994	0.06	-0.1	0	0
BH000022	21/09/2018 11:01	0.1	0.9	21.2	0.1	0.9	21.1	994	-0.01	0	0	0
BH000013	21/09/2018 11:06	0.1	0.1	21.6	0.1	0.1	21.3	995	0.03	-1.3	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC/JB	Weather	Sunny, Damp	Round	12 of 12
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Location	Date & Time	Borehole	Water		Notes
		Depth (m)	Depth (m)		
BH000002	21/09/2018 9:28	3.79	2.47		
BH000001	21/09/2018 9:31	3.75	3.2		
BH000003	21/09/2018 9:34	3.73	3.58		
BH000015	21/09/2018 9:38	3.95	3.89		
BH000004	21/09/2018 9:43	4.41	4.18		
BH000017	21/09/2018 9:47	3.71	3.65		
BH000005	21/09/2018 9:53	3.90	Dry		
BH000018	21/09/2018 10:03	3.90	3.75		
BH000014	21/09/2018 10:07	3.47	2.8		
BH000006	21/09/2018 9:57	3.69	0.35		
BH000007	21/09/2018 10:12	2.19	3.25	Borehole Tampered with	
BH000008	21/09/2018 10:18	1.48	2.01		
BH000019	21/09/2018 10:23	0.23	1.59		
BH000016	21/09/2018 10:28	18.47	14.91	Existing borehole	
BH000020	21/09/2018 10:34	2.77	Dry	Borehole Tampered with	
BH000009	21/09/2018 10:40	2.80	Dry		
BH000010	21/09/2018 10:43	3.61	Dry	Borehole Tampered with	
BH000011	21/09/2018 10:49	2.74	2.58	Borehole Tampered with	
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism	
BH000012	21/09/2018 10:56	3.30	2.04	Borehole Tampered with	
BH000022	21/09/2018 11:01	3.20	1.86		
BH000013	21/09/2018 11:06	4.03	1.63	Negative flow rate noted by suction on the bung	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician	MC/AF	Weather	Overcast, Damp	Round	13 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	(mbar)	pressure	flow	(ppm)		
BH000002	23/11/2018 10:39	0	0.9	20.7	0	0.9	20.7	1005	0	0	0	0
BH000001	23/11/2018 10:25	0	0.1	21.6	0	0.1	21.1	1006	-0.01	0	0	0
BH000003	23/11/2018 10:52	0	0.5	21.2	0	0.5	21.2	1005	0	0	0	0
BH000015	23/11/2018 11:03	0	0.1	21.9	0	0.1	21.6	1004	0.01	0.1	0	0
BH000004	23/11/2018 11:15	0	2.2	20.2	0	2.1	20.3	1004	0.01	0.1	0	0
BH000017	23/11/2018 11:27	0	0.7	21.5	0	0.7	21.3	1004	0.01	0.1	0	0
BH000005	23/11/2018 11:36	0	0.9	21.3	0	0.9	21.3	1003	0	0.1	0	0
BH000018	23/11/2018 11:55	0	0.9	21.2	0	0.9	21.2	1004	-0.37	0.1	0	0
BH000014	23/11/2018 12:04	0	0.8	21	0	0.8	21	1003	0	0	0	0
BH000006	23/11/2018 11:44	0	0.1	21.8	0	0.1	21.5	1003	-0.01	-0.2	0	0
BH000007	23/11/2018 12:12	4.5	0.6	20.1	4.5	0.6	20.1	1003	0	0	0	0
BH000008	23/11/2018 12:24	0	0.9	21.2	0	0.9	21	1004	0	-0.1	0	0
BH000019	23/11/2018 12:35	0	0.4	21.5	0	0.4	21.4	1003	-0.01	-0.1	0	0
BH000016	23/11/2018 12:52	0	1.8	17.4	0	1.8	17.4	1003	0	-0.1	0	0
BH000020	23/11/2018 13:03	0	0.6	21.4	0	0.5	20.8	1002	-0.02	-0.1	0	0
BH000009	23/11/2018 13:13	0	0.1	21.8	0	0.1	21.4	1003	-0.17	-0.1	0	0
BH000010	23/11/2018 13:22	0	1.4	21.1	0	1.8	20.8	1003	-0.01	-0.1	0	0
BH000011	23/11/2018 13:31	0	0.4	21.4	0	0.4	21.3	1003	-0.02	-0.1	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	23/11/2018 13:40	0	0.5	21.3	0	0.5	21.3	1003	-0.03	-0.1	0	0
BH000022	23/11/2018 13:51	0	1.1	20.5	0	1.1	20.5	1004	0.09	-0.1	0	0
BH000013	23/11/2018 13:59	0	0.3	21.6	0	0.3	21.2	1004	-0.03	-0.1	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	MC/AF	Weather	Overcast, Damp	Round	13 of 24
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Location	Date & Time	Borehole	Water		Notes
			Depth (m)	Depth (m)	
BH000002	23/11/2018 10:39		4.25	2.7	
BH000001	23/11/2018 10:25		4.25	3.59	
BH000003	23/11/2018 10:52		4.20	3.56	
BH000015	23/11/2018 11:03		4.20	Dry	
BH000004	23/11/2018 11:15		4.80	4.14	
BH000017	23/11/2018 11:27		4.30	Dry	
BH000005	23/11/2018 11:36		4.30	Dry	
BH000018	23/11/2018 11:55		4.25	3.81	
BH000014	23/11/2018 12:04		3.60	Dry	
BH000006	23/11/2018 11:44		4.25	0.01	
BH000007	23/11/2018 12:12		4.20	3.49	Borehole Tampered with
BH000008	23/11/2018 12:24		4.30	2.59	
BH000019	23/11/2018 12:35		4.40	1.87	
BH000016	23/11/2018 12:52		18.47	15.75	Existing borehole
BH000020	23/11/2018 13:03		3.20	Dry	Borehole Tampered with
BH000009	23/11/2018 13:13		3.30	Dry	
BH000010	23/11/2018 13:22		4.30	Dry	Borehole Tampered with
BH000011	23/11/2018 13:31		3.25	Dry	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism				Borehole Destroyed by Vandalism
BH000012	23/11/2018 13:40		3.70	2.55	Borehole Tampered with
BH000022	23/11/2018 13:51		3.50	2.35	
BH000013	23/11/2018 13:59		5.25	1.92	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician: MC/AF

Weather:

Sunny, Wet

Round: 14 of 24

Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO	H ₂ S
		%	%	%	%	%	(mbar)			flow	(ppm)	
BH000002	07/12/2018 09:41	0	4.5	6.4	0	4.4	5.9	987	-0.02	0	115	0
BH000001	07/12/2018 09:30	0	0.1	21.6	0	0.1	21.2	986	-0.05	0	10	0
BH000003	07/12/2018 09:51	0	5.4	11.4	0	5.3	10.9	987	-0.01	0	18	0
BH000015	07/12/2018 09:59	0	0.2	21.7	0	0.3	20.2	986	0.01	0	0	0
BH000004	07/12/2018 10:09	0	5	9.7	0	4.9	9.3	986	0	0	6	0
BH000017	07/12/2018 10:17	0	0.8	21.2	0	0.8	19.6	986	0	0	0	0
BH000005	07/12/2018 10:25	0	2.4	19.5	0	2.4	19.4	986	0.01	0	0	0
BH000018						Borehole Flooded						
BH000014						Borehole Flooded						
BH000006						Borehole Flooded						
BH000007						Borehole Flooded						
BH000008	07/12/2018 10:57	0	0.4	21.1	0	0.4	21.1	986	0.01	0	0	0
BH000019	07/12/2018 11:06	0	0.5	21.2	0	0.5	21.2	986	0.01	0	0	0
BH000016	07/12/2018 11:15	0.4	2.7	11.5	0.4	2.6	11.4	986	0.7	-2.8	0	0
BH000020	07/12/2018 11:26	0	1.7	20.7	0	1.7	19.7	985	0	0	0	0
BH000009	07/12/2018 11:35	0	0.8	21.1	0	0.8	21.1	986	0.03	0	0	0
BH000010	07/12/2018 11:44	0	0	21.8	0	0	21.3	986	-0.01	0	0	0
BH000011	07/12/2018 11:52	0	0.4	21.2	0	0.4	21.2	986	-0.01	0	0	0
BH000021						Borehole Destroyed by Vandalism						
BH000012	07/12/2018 12:01	0	1	18.9	0	1.1	18.5	986	0	0	0	0
BH000022	07/12/2018 12:11	0	0.9	19.9	0	0.9	19.9	987	-0.01	0	0	0
BH000013	07/12/2018 12:20	0	0.3	21.5	0	0.2	21.1	988	-0.06	0	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 18, 14, 6 & 7 Flooded.

Water Monitoring Results

Site:	Eastwood	Technician	MC/AF	Weather	Sunny, Wet	Round	14 of 24
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Location	Date & Time	Borehole	Water		Notes
			Depth (m)	Depth (m)	
BH000002	07/12/2018 09:41		4.25	2.13	
BH000001	07/12/2018 09:30		4.25	3.63	
BH000003	07/12/2018 09:51		4.20	3.56	
BH000015	07/12/2018 09:59		4.20	3.85	
BH000004	07/12/2018 10:09		4.80	4.28	
BH000017	07/12/2018 10:17		4.30	Dry	
BH000005	07/12/2018 10:25		4.30	Dry	
BH000018	07/12/2018 10:39		4.25	0.34	Borehole Flooded
BH000014	07/12/2018 10:44		3.60	0.12	Borehole Flooded
BH000006	07/12/2018 10:30		4.25	-0.05	Borehole Flooded
BH000007	07/12/2018 10:48		4.20	0.09	Borehole Tampered with. Borehole Flooded.
BH000008	07/12/2018 10:57		4.30	1.74	
BH000019	07/12/2018 11:06		4.40	1.73	
BH000016	07/12/2018 11:15		18.47	15.75	Existing borehole
BH000020	07/12/2018 11:26		3.20	Dry	Borehole Tampered with
BH000009	07/12/2018 11:35		3.30	Dry	
BH000010	07/12/2018 11:44		4.30	Dry	Borehole Tampered with
BH000011	07/12/2018 11:52		3.25	Dry	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism				Borehole Destroyed by Vandalism
BH000012	07/12/2018 12:01		3.70	2.63	Borehole Tampered with
BH000022	07/12/2018 12:11		3.50	2.34	
BH000013	07/12/2018 12:20		5.25	1.87	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 18, 14, 6 & 7 Flooded.

Gas Monitoring Results

Site:	Eastwood	Technician:	MC/AF	Weather:	Sunny, Wet	Round:	15 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO (ppm)	H ₂ S
		%	%	%	%	%	%	(mbar)				
BH000002	20/12/2018 10:29	0	2	15.5	0	2	15.5	992	0.02	0.1	0	0
BH000001 Boorehole Flooded												
BH000003	20/12/2018 10:37	0	0.7	20.4	0	0.7	20.3	992	0.53	-0.4	0	0
BH000015	20/12/2018 10:45	0	0.2	21.6	0	0.2	21.3	992	0.01	-0.1	0	0
BH000004	20/12/2018 10:52	0	4.4	13.2	0	4.4	13	992	0.25	-0.1	0	0
BH000017	20/12/2018 11:00	0	1	20.9	0	1	20.2	992	0.04	-0.1	0	0
BH000005	20/12/2018 11:08	0	2.2	19.6	0	2.2	19.7	991	0.03	-0.1	0	0
BH000018	20/12/2018 11:21	0	0	21.7	0	0	21.3	992	0.02	0	0	0
BH000014	Boorehole Flooded											
BH000006	Boorehole Flooded											
BH000007	Boorehole Flooded											
BH000008	20/12/2018 11:39	0	0.3	21.1	0	0.3	21.1	992	0.03	0	0	0
BH000019	Boorehole Flooded											
BH000016	20/12/2018 11:54	0.1	1.8	16.2	0.1	1.7	16.3	991	0.73	-2.5	0	0
BH000020	20/12/2018 12:04	0	1.5	20.6	0	1.5	20.4	991	0.02	0	0	0
BH000009	20/12/2018 12:13	0	0.8	21.1	0	0.8	21	992	0.02	0	0	0
BH000010	20/12/2018 12:22	0	0	21.7	0	0.1	21.2	991	0	0	0	0
BH000011	Boorehole Flooded											
BH000021	Borehole Destroyed by Vandalism											
BH000012	20/12/2018 12:35	0	1	18.7	0	1	18.5	992	0	0	0	0
BH000022	20/12/2018 12:44	0	1.6	16.3	0	1.7	15.7	992	0	0	0	0
BH000013	20/12/2018 12:52	0	0	21.8	0	0.1	20.4	993	0.15	-1	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 1, 14, 6, 7, 19 & 11 Flooded.

Water Monitoring Results

Site:	Eastwood	Technician	MC/AF	Weather	Sunny, Wet	Round	15 of 24
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Location	Date & Time	Borehole	Water		Notes
			Depth (m)	Depth (m)	
BH000002	20/12/2018 10:29		4.25	2.13	
BH000001	20/12/2018 10:19		4.25	0.17	Borehole Flooded
BH000003	20/12/2018 10:37		4.20	2.81	
BH000015	20/12/2018 10:45		4.20	3.75	
BH000004	20/12/2018 10:52		4.80	4.31	
BH000017	20/12/2018 11:00		4.30	Dry	
BH000005	20/12/2018 11:08		4.30	Dry	
BH000018	20/12/2018 11:21		4.25	1.07	
BH000014	20/12/2018 11:26		3.60	0.15	Borehole Flooded
BH000006	20/12/2018 11:13		4.25	0.33	Borehole Flooded
BH000007	20/12/2018 11:31		4.20	0.28	Borehole Tampered with. Borehole Flooded.
BH000008	20/12/2018 11:39		4.30	1.24	
BH000019	20/12/2018 11:45		4.40	0.18	Borehole Flooded
BH000016	20/12/2018 11:54		18.47	15.58	Existing borehole
BH000020	20/12/2018 12:04		3.20	Dry	Borehole Tampered with
BH000009	20/12/2018 12:13		3.30	Dry	
BH000010	20/12/2018 12:22		4.30	Dry	Borehole Tampered with
BH000011	20/12/2018 12:27		3.25	0.44	Borehole Tampered with. Borehole Flooded.
BH000021	Borehole Destroyed by Vandalism				Borehole Destroyed by Vandalism
BH000012	20/12/2018 12:35		3.70	2.68	Borehole Tampered with
BH000022	20/12/2018 12:44		3.50	2.16	
BH000013	20/12/2018 12:52		5.25	1.82	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 1, 14, 6, 7, 19 & 11 Flooded.

Gas Monitoring Results

Site:	Eastwood	Technician:	AF/JB	Weather:	Overcast, dry	Round:	16 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH ₄	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO	H ₂ S
		%	%	%	%	%	%	(mbar)			(ppm)	
BH000002	03/01/2019 09:55	0.1	0.2	22	0.1	0.2	21.4	1032	0	0	0	0
BH000001	03/01/2019 09:47	0.1	0.4	21.2	0.1	0.4	21.2	1032	0	0	0	0
BH000003	03/01/2019 10:05	0.1	0.7	19.6	0.1	0.6	19.8	1032	0.02	0	45	0
BH000015	03/01/2019 10:11	0.1	0.2	22.1	0.1	0.2	21.5	1032	0.02	0	8	0
BH000004	03/01/2019 10:20	0.1	1.7	20.4	0.1	1.7	20.3	1031	0.04	-0.1	3	0
BH000017	03/01/2019 10:28	0.1	0.9	21.4	0.1	0.9	21.4	1031	0.04	0.1	1	0
BH000005	03/01/2019 10:36	0.1	1.6	20.7	0.1	1.5	20.8	1031	0.04	-0.1	0	0
BH000018	03/01/2019 10:53	0.1	0.9	21.5	0.1	0.9	21.6	1031	0.05	0.1	0	0
BH000014												
BH000006												
BH000007	03/01/2019 11:09	4.9	0.5	20	4.9	0.5	20	1031	0.04	-0.1	0	0
BH000008	03/01/2019 11:17	0.1	0.6	21.2	0.2	0.6	21.2	1031	0.04	-0.1	0	0
BH000019												
BH000016	03/01/2019 11:34	0.1	1.2	19.4	0.1	1.2	19	1031	0.7	-0.1	0	0
BH000020	03/01/2019 11:45	0.1	1	21.2	0.1	1	21.1	1030	0.04	-0.1	0	0
BH000009	03/01/2019 11:56	0.1	0.4	21.6	0.1	0.4	21.5	1031	0.03	0	0	0
BH000010	03/01/2019 12:03	0.1	0.1	22	0.1	0.1	21.6	1031	0.03	-0.1	0	0
BH000011	03/01/2019 12:11	0.1	0.8	20.8	0.1	0.8	20.8	1031	0.03	-0.1	0	0
BH000021												
BH000012	03/01/2019 12:20	0.1	0.6	21.6	0.1	0.6	21.6	1032	0.03	-0.1	0	0
BH000022	03/01/2019 12:29	0.1	1.6	20.2	0.1	1.6	20.1	1032	0.02	-0.1	0	0
BH000013	03/01/2019 12:37	0.1	0.1	22	0.1	0.1	21.3	1032	0.47	-0.1	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 6, 14 & 19 Flooded.

Water Monitoring Results

Site: Eastwood

Technician: AF/JB

Weather: Overcast, dry

Round: 16 of 24

Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	03/01/2019 09:55	4.25	2.1	
BH000001	03/01/2019 09:47	4.25	2.18	
BH000003	03/01/2019 10:05	4.20	3.26	
BH000015	03/01/2019 10:11	4.20	Dry	
BH000004	03/01/2019 10:20	4.80	4.08	
BH000017	03/01/2019 10:28	4.30	Dry	
BH000005	03/01/2019 10:36	4.30	Dry	
BH000018	03/01/2019 10:53	4.25	1.44	
BH000014	03/01/2019 11:00	3.60	0.27	Borehole Flooded
BH000006	03/01/2019 10:43	4.25	0.2	Borehole Flooded
BH000007	03/01/2019 11:09	4.20	2.95	Borehole Tampered with
BH000008	03/01/2019 11:17	4.30	1.7	
BH000019	03/01/2019 11:24	4.40	0.23	Borehole Flooded
BH000016	03/01/2019 11:34	18.47	14.52	Existing borehole
BH000020	03/01/2019 11:45	3.20	Dry	Borehole Tampered with
BH000009	03/01/2019 11:56	3.30	Dry	
BH000010	03/01/2019 12:03	4.30	Dry	Borehole Tampered with
BH000011	03/01/2019 12:11	3.25	1.05	Borehole Tampered with
BH000021	Borehole Destroyed by Vandalism			
BH000012	03/01/2019 12:20	3.70	1.18	Borehole Tampered with
BH000022	03/01/2019 12:29	3.50	1.99	
BH000013	03/01/2019 12:37	5.25	1.88	

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 6, 14 & 19 Flooded.

Gas Monitoring Results

Site:	Eastwood	Technician:	JB, AF	Weather:	Overcast, frosty	Round:	17 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO	H ₂ S
		%	%	%	%	%	%	(mbar)			(ppm)	
BH000002	18/01/2019 10:14	0.1	0.9	21.6	0	0.9	21.6	1004	0.01	-0.1	0	0
BH000001	18/01/2019 09:43	0.1	0.5	21.3	0	0.5	21.2	1005	-0.03	-0.1	0	0
BH000003	18/01/2019 10:29	0.1	1.5	20	0	1.4	19.9	1004	0.11	0.1	0	0
BH000015	18/01/2019 10:36	0.1	0.2	22.3	0.1	0.2	21.9	1003	0.06	0.1	0	0
BH000004	18/01/2019 10:41	0.1	1.3	21	0.1	1.3	20	1003	0.03	-0.1	0	0
BH000017	18/01/2019 10:45	0.1	0.7	21.8	0	0.7	21.7	1003	0.06	-0.1	0	0
BH000005	18/01/2019 10:50	0.1	1.3	21.5	0.1	1.2	21.4	1003	-11.54	-0.1	0	0
BH000018	18/01/2019 11:01	0.1	0.8	22	0.1	0.8	21.9	1003	0.04	-0.1	0	0
BH000014	18/01/2019 11:07	0.1	0.8	21.4	0.1	0.8	21.4	1003	0.02	-0.1	0	0
BH000006	18/01/2019 10:55	0.1	0.3	22.2	0.1	0.3	21.9	1003	0.05	-0.1	0	0
BH000007	18/01/2019 11:11	5.4	0.7	19.9	5.3	0.8	19.8	1003	0.02	0	0	0
BH000008	18/01/2019 11:17	0.1	0.5	21.9	0.1	0.4	21.4	1003	0.73	-0.2	0	0
BH000019	18/01/2019 11:23	0.1	0.3	22	0.1	0.3	21.7	1003	0.16	0	0	0
BH000016	18/01/2019 11:31	0.1	1	19.6	0.1	1	19.7	1002	0.23	-0.4	0	0
BH000020	18/01/2019 11:38	0.1	0.4	22	0.1	0.4	21.4	1002	0.01	-0.1	0	0
BH000009	18/01/2019 11:43	0.1	0.1	22.1	0.1	0.1	21.7	1002	0.02	0	0	0
BH000010	18/01/2019 11:48	0.1	1.2	21.1	0.1	1.4	20.9	1002	0.07	-0.1	0	0
BH000011	18/01/2019 11:53	0.1	0.5	21.7	0.1	0.4	21.6	1003	-0.3	-0.2	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	03/01/2019 12:20	0.1	0.6	21.6	0.1	0.6	21.6	1032	0.03	-0.1	0	0
BH000022	03/01/2019 12:29	0.1	1.6	20.2	0.1	1.6	20.1	1032	0.02	-0.1	0	0
BH000013	03/01/2019 12:37	0.1	0.1	22	0.1	0.1	21.3	1032	0.47	0.6	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	JB/AF	Weather	Overcast, frosty	Round	17 of 24
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Location	Date & Time	Borehole	Water	Notes		
		Depth (m)	Depth (m)			
BH000002	18/01/2019 10:14	4.25	2.34			
BH000001	18/01/2019 09:43	4.25	3.13			
BH000003	18/01/2019 10:29	4.20	3.55			
BH000005	18/01/2019 10:36	4.20	Dry			
BH000004	18/01/2019 10:41	4.80	4.32			
BH000017	18/01/2019 10:45	4.30	Dry			
BH000005	18/01/2019 10:50	4.30	Dry			
BH000018	18/01/2019 11:01	4.25	2.08			
BH000014	18/01/2019 11:07	3.60	1.54			
BH000006	18/01/2019 10:55	4.25	1.44			
BH000007	18/01/2019 11:11	4.20	3.34	Borehole Tampered with		
BH000008	18/01/2019 11:17	4.30	2.28			
BH000019	18/01/2019 11:23	4.40	0.98			
BH000016	18/01/2019 11:31	18.47	15.23	Existing borehole		
BH000020	18/01/2019 11:38	3.20	Dry	Borehole Tampered with		
BH000009	18/01/2019 11:43	3.30	Dry			
BH000010	18/01/2019 11:48	4.30	Dry	Borehole Tampered with		
BH000011	18/01/2019 11:53	3.25	2.57	Borehole Tampered with		
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism		
BH000012	03/01/2019 12:20	3.70	1.47	Borehole Tampered with		
BH000022	03/01/2019 12:29	3.50	2.17			
BH000013	03/01/2019 12:37	5.25	1.88			

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site:	Eastwood	Technician:	JB	Weather:	Sunny & cold	Round:	17a of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO	H ₂ S
		%	%	%	%	%	%	(mbar)			(ppm)	
BH000002	23/01/2019 00:00	0.1	0.1	21.6	0.1	0.1	21.3	992	-0.03	0	0	0
BH000001	23/01/2019 00:00	0.1	0.2	21.6	0.1	0.5	21.4	992	-0.02	-0.1	0	0
BH000003	23/01/2019 00:00	0.1	0.3	21	0.1	0.3	21	992	-0.03	-0.1	0	0
BH000015	23/01/2019 00:00	0.1	0.6	20.5	0.1	0.6	20.5	992	0.01	0	0	0
BH000004	23/01/2019 00:00	0.1	2.3	19	0.1	2.3	19	992	0.01	0	0	0
BH000017	23/01/2019 00:00	0.1	0.6	21.8	0.1	1.8	19.7	992	0.01	-0.2	0	0
BH000005	23/01/2019 00:00	0.1	1.6	21.1	0.1	1.6	21.1	992	0.01	-0.1	193	0
BH000018									Borehole flooded			
BH000014									Borehole flooded			
BH000006									Borehole flooded			
BH000007	23/01/2019 00:00	3.9	0.6	20.1	3.9	0.7	20.1	992	0.02	0	0	0
BH000008	23/01/2019 00:00	0.1	0.7	21	0.1	0.8	21	992	0.02	-0.2	0	0
BH000019									Borehole flooded			
BH000016	23/01/2019 00:00	0.1	2	16.6	0.1	2	16.6	992	0.08	0.2	0	0
BH000020	23/01/2019 00:00	0.1	0.6	21.7	0.1	0.6	20.9	992	0.01	-0.2	0	0
BH000009	23/01/2019 00:00	0.1	0.2	21.9	0.1	0.2	21.7	992	0.01	-0.2	0	0
BH000010	23/01/2019 00:00	0.1	1.2	20.5	0.1	1.2	20.5	993	0.01	-0.1	0	0
BH000011	23/01/2019 00:00	0.1	1	20.7	0.1	1	20.7	993	0.04	0	0	0
BH000021									Borehole Destroyed by Vandalism			
BH000012	23/01/2019 00:00	0.1	0.4	21.3	0.1	0.4	20.8	993	0.04	-0.1	0	0
BH000022	23/01/2019 00:00	0.1	3	11.3	0.1	3	11.3	993	0.06	0.2	0	0
BH000013	23/01/2019 00:00	0.1	0.1	21.5	0.1	0.2	19.8	993	0.03	1.2	0	0

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 6, 14, 18 & 19 flooded.

Water Monitoring Results

Site:	Eastwood	Technician:	JB	Weather:	Sunny & cold	Round:	17a of 24
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Location	Date & Time	Borehole	Water	Notes		
		Depth (m)	Depth (m)			
BH000002	23/01/2019 00:00	4.25	1.87			
BH000001	23/01/2019 00:00	4.25	1.87			
BH000003	23/01/2019 00:00	4.20	3.26			
BH000015	23/01/2019 00:00	4.20	Dry			
BH000004	23/01/2019 00:00	4.80	4.08			
BH000017	23/01/2019 00:00	4.30	Dry			
BH000005	23/01/2019 00:00	4.30	Dry			
BH000018	23/01/2019 00:00	4.25	-0.02	Borehole flooded		
BH000014	23/01/2019 00:00	3.60	-0.01	Borehole flooded		
BH000006	23/01/2019 00:00	4.25	-0.16	Borehole flooded		
BH000007	23/01/2019 00:00	4.20	2.12	Borehole Tampered with		
BH000008	23/01/2019 00:00	4.30	1.25			
BH000019	23/01/2019 00:00	4.40	0.00	Borehole flooded		
BH000016	23/01/2019 00:00	18.47	14.87	Existing borehole		
BH000020	23/01/2019 00:00	3.20	Dry	Borehole Tampered with		
BH000009	23/01/2019 00:00	3.30	Dry			
BH000010	23/01/2019 00:00	4.30	Dry	Borehole Tampered with		
BH000011	23/01/2019 00:00	3.25	0.94	Borehole Tampered with		
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism		
BH000012	23/01/2019 00:00	3.70	1.17	Borehole Tampered with		
BH000022	23/01/2019 00:00	3.50	1.96			
BH000013	23/01/2019 00:00	5.25	1.7			

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 6, 14, 18 & 19 flooded

Gas Monitoring Results

Site:	Eastwood	Technician:	AF/MC	Weather:	Cloudy, 1°C	Round:	18 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO	H ₂ S	
		%	%	%	%	%	%	(mbar)			(ppm)		
BH000002	01/02/2019 09:35	0.1	0.6	20.9	0.1	0.6	20.9	980	0	0	0	LOW	
BH000001					Borehole flooded								
BH000003	01/02/2019 09:44	0.1	0.4	20.8	0.1	0.4	20.8	980	0.04	-0.1	0	LOW	
BH000015	01/02/2019 09:52	0.1	0.1	21.9	0.1	0.1	21.7	980	-0.14	-0.1	51	LOW	
BH000004	01/02/2019 10:01	0.1	4.2	13.2	0.1	4.2	12.6	980	0.03	-0.1	207	LOW	
BH000017	01/02/2019 10:09	0.1	0.9	21.5	0.1	0.9	20.5	980	0.05	-0.1	14	LOW	
BH000005	01/02/2019 10:17	0.1	2.4	20	0.1	2.3	19.9	979	0.05	0	5	LOW	
BH000018	01/02/2019 10:29	0.1	0.3	22.2	0.1	0.3	21.8	980	0.05	-0.1	1	LOW	
BH000014					Borehole flooded								
BH000006					Borehole flooded								
BH000007	01/02/2019 10:44	0.6	0.5	21.5	0.6	0.5	21.2	980	0.06	-0.1	0	LOW	
BH000008					Borehole flooded								
BH000019					Borehole flooded								
BH000016	01/02/2019 11:03	0.1	1.2	19.1	0.1	1.2	18.9	980	0.79	-0.3	0	LOW	
BH000020	01/02/2019 11:11	0.1	0.9	21.3	0.1	0.9	21	980	0.04	-0.1	0	LOW	
BH000009	01/02/2019 11:19	0.1	0.4	21.8	0.1	0.4	21.4	980	0.03	-0.1	0	LOW	
BH000010	01/02/2019 11:28	0.1	2.1	20.1	0.1	2.1	20.1	980	0.2	-0.1	0	LOW	
BH000011					Borehole flooded								
BH000021					Borehole Destroyed by Vandalism								
BH000012	01/02/2019 11:46	0	0.3	21.7	0.1	0.3	21.6	981	0.03	-0.1	0	LOW	
BH000022	01/02/2019 11:54	0	1	21.5	0	1	21.3	981	0	-0.1	0	LOW	
BH000013	01/02/2019 12:01	0	0.1	21.9	0	0.1	21.5	982	0.2	0	0	LOW	

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 1, 6, 8, 11, 14, 19 & 21 flooded

Water Monitoring Results

Site:	Eastwood	Technician	AF/MC	Weather	Cloudy, 1°C	Round	18 of 24
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Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	01/02/2019 09:35	4.25	2.02	
BH000001	01/02/2019 09:27	4.25	0.33	Borehole flooded
BH000003	01/02/2019 09:44	4.20	3.21	
BH000015	01/02/2019 09:52	4.20	3.53	
BH000004	01/02/2019 10:01	4.80	4.34	
BH000017	01/02/2019 10:09	4.30	Dry	
BH000005	01/02/2019 10:17	4.30	Dry	
BH000018	01/02/2019 10:29	4.25	1.38	
BH000014	01/02/2019 10:33	3.60	0.15	Borehole flooded
BH000006	01/02/2019 10:22	4.25	0.11	Borehole flooded
BH000007	01/02/2019 10:44	4.20	2.59	Borehole Tampered with
BH000008	01/02/2019 10:49	4.30	0.65	Borehole flooded
BH000019	01/02/2019 10:54	4.40	0.21	Borehole flooded
BH000016	01/02/2019 11:03	18.47	15.24	Existing borehole
BH000020	01/02/2019 11:11	3.20	Dry	Borehole Tampered with
BH000009	01/02/2019 11:19	3.30	Dry	
BH000010	01/02/2019 11:28	4.30	Dry	Borehole Tampered with
BH000011	01/02/2019 11:36	3.25	0.57	Borehole Tampered with. Borehole flooded
BH000021	Borehole Destroyed by Vandalism			
BH000012	01/02/2019 11:46	3.70	1.1	Borehole Tampered with
BH000022	01/02/2019 11:54	3.50	2.02	
BH000013	01/02/2019 12:01	5.25	1.67	

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 1, 6, 8, 11, 14, 19 & 21 flooded

Gas Monitoring Results

Site:	Eastwood	Technician	AF/JB	Weather	Sunny, 6°C	Round	19 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO	H ₂ S
		%	%	%	%	%	%	(mbar)			(ppm)	
BH000002	15/02/2019 09:55	0	0.2	21.4	0	0.2	21.2	1015	0.45	-0.1	0	0
BH000001	15/02/2019 09:51	0.1	0.3	21.3	0	0.3	21.1	1015	0.04	-0.1	0	0
BH000003	15/02/2019 10:00	0	0.7	19.7	0	0.7	19.7	1016	0.05	0	0	0
BH000015	15/02/2019 10:04	0	0.3	21.1	0	0.3	20.9	1015	0.04	0.1	0	0
BH000004	15/02/2019 10:09	0	1.4	18.7	0	1.4	18.7	1015	0.03	-0.1	0	0
BH000017	15/02/2019 10:14	0	0.7	21.1	0	0.7	20.9	1015	0.04	-0.1	0	0
BH000005	15/02/2019 10:19	0	0.9	21.1	0	0.9	21.1	1014	0.05	-0.1	0	0
BH000018	15/02/2019 10:27	0	0.3	21.6	0	0.3	21.4	1015	0.04	-0.1	11	0
BH000014	Borehole flooded											
BH000006	Borehole flooded											
BH000007	15/02/2019 10:34	5.1	0.4	19.6	5	0.4	19.6	1015	1.04	0	0	0
BH000008	Borehole flooded											
BH000019	Borehole flooded											
BH000016	15/02/2019 10:53	0	0.7	19.6	0	0.7	19.5	1014	0.7	-0.2	0	0
BH000020	15/02/2019 10:58	0	0.8	21.2	0	0.8	21.2	1014	0.03	0	0	0
BH000009	15/02/2019 11:03	0	0.6	21.3	0	0.8	20.9	1014	0.05	0.1	0	0
BH000010	15/02/2019 11:09	0	0.8	21	0	0.8	21	1014	0.06	-0.1	0	0
BH000011	15/02/2019 11:12	0	0	21.7	0	0.1	21.3	1015	0.12	0.2	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	15/02/2019 11:17	0	0.3	21.6	0	0.3	21.5	1022	0	-0.1	0	0
BH000022	15/02/2019 11:25	0	1.4	20.5	0	1.5	20.5	1015	0.03	0	0	0
BH000013	15/02/2019 11:30	0	0	21.7	0	0	21.4	1016	0.09	-1.1	0	0

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 6, 8, 14 & 19 flooded

Water Monitoring Results

Site:	Eastwood	Technician	AF/JB	Weather	Sunny, 6°C	Round	19 of 24
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Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	15/02/2019 09:55	4.25	1.91	
BH000001	15/02/2019 09:51	4.25	1.61	
BH000003	15/02/2019 10:00	4.20	3.27	
BH000015	15/02/2019 10:04	4.20	3.08	
BH000004	15/02/2019 10:09	4.80	3.72	
BH000017	15/02/2019 10:14	4.30	2.92	
BH000005	15/02/2019 10:19	4.30	3.75	
BH000018	15/02/2019 10:27	4.25	1.5	
BH000014	15/02/2019 10:30	3.60	0.27	Borehole flooded
BH000006	15/02/2019 10:22	4.25	0.3	Borehole flooded
BH000007	15/02/2019 10:34	4.20	3.13	
BH000008	15/02/2019 12:15	4.30	0.39	Borehole flooded
BH000019	15/02/2019 10:42	4.40	0.26	Borehole flooded
BH000016	15/02/2019 10:53	18.47	14.39	
BH000020	15/02/2019 10:58	3.20	Dry	
BH000009	15/02/2019 11:03	3.30	Dry	
BH000010	15/02/2019 11:09	4.30	Dry	
BH000011	15/02/2019 11:12	3.25	0.64	
BH000021	Borehole Destroyed by Vandalism			
BH000012	15/02/2019 11:17	3.70	1.01	
BH000022	15/02/2019 11:25	3.50	1.92	
BH000013	15/02/2019 11:30	5.25	1.74	

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 6, 8, 14 & 19 flooded

Gas Monitoring Results

Site:	Eastwood	Technician:	AF/JB	Weather:	Overcast, 6°C	Round:	20 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH ₄	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	01/03/2019 09:49	0	0.3	21.3	0	0.3	21.1	1008	-0.01	-0.1	0	0
BH000001	01/03/2019 09:45	0	0.7	20.7	0	0.6	20.7	1008	-13.27	-0.1	0	0
BH000003	01/03/2019 09:54	0	0.1	21.5	0	0.1	21.3	1009	-0.01	0	0	0
BH000015	01/03/2019 09:58	0	0.3	21.4	0	0.3	21.4	1008	0	-0.1	0	0
BH000004	01/03/2019 10:03	0.2	4	11	0.2	3.9	11	1008	0.48	0.1	0	0
BH000017	01/03/2019 10:07	0	0.9	21.2	0	0.9	20.5	1008	0.01	-0.1	0	0
BH000005	01/03/2019 10:11	0	0.6	21.5	0	0.6	21.4	1007	0.02	0	0	0
BH000018	01/03/2019 10:19	0	0.4	21.6	0	0.4	21.5	1008	0.02	0	0	0
BH000014	01/03/2019 10:22	0	0.9	21	0	0.9	21	1008	0.02	-0.1	0	0
BH000006	01/03/2019 10:14	0	0.4	21.6	0	0.4	21.6	1008	0.02	-0.2	8	0
BH000007	01/03/2019 10:26	3.5	0.6	19.1	3.5	0.6	19.1	1008	0.24	-0.1	0	0
BH000008	01/03/2019 10:30	0	0.6	21.2	0.1	0.6	21.2	1008	-0.01	0	0	0
BH000019	Borehole flooded											
BH000016	01/03/2019 10:39	0	0.5	20.4	0	0.5	20.4	1007	0.18	0.2	0	0
BH000020	01/03/2019 10:46	0	1.1	21	0	1.1	21	1007	0	-0.1	0	0
BH000009	01/03/2019 10:51	0	0.7	21.3	0	0.7	21.3	1008	0.01	0	0	0
BH000010	01/03/2019 10:55	0	0	21.8	0	0	21.4	1008	0	-0.1	0	0
BH000011	01/03/2019 11:01	0	1	20.6	0	1	20.6	1008	0	-0.1	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	01/03/2019 11:09	0	0.5	21.4	0	0.5	21.4	1008	0	-0.1	0	0
BH000022	01/03/2019 11:14	0	1.2	20.8	0	1.2	20.8	1008	0.1	-0.1	0	0
BH000013	01/03/2019 11:21	0	0	22	0	0	21.4	1009	0.23	-0.4	0	0

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Borehole 19 flooded

Water Monitoring Results

Site:	Eastwood	Technician	AF/JB	Weather	Overcast, 6°C	Round	20 of 24
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Location	Date & Time	Borehole	Water	Notes		
		Depth (m)	Depth (m)			
BH000002	01/03/2019 09:49	4.25	2.21			
BH000001	01/03/2019 09:45	4.25	3.09			
BH000003	01/03/2019 09:54	4.20	3.55			
BH000015	01/03/2019 09:58	4.20	Dry			
BH000004	01/03/2019 10:03	4.80	4.14			
BH000017	01/03/2019 10:07	4.30	3.18			
BH000005	01/03/2019 10:11	4.30	3.77			
BH000018	01/03/2019 10:19	4.25	3.03			
BH000014	01/03/2019 10:22	3.60	1.37			
BH000006	01/03/2019 10:14	4.25	1.32			
BH000007	01/03/2019 10:26	4.20	3.26			
BH000008	01/03/2019 10:30	4.30	1.5			
BH000019	01/03/2019 10:34	4.40	0.78	Borehole flooded		
BH000016	01/03/2019 10:39	18.47	14.96			
BH000020	01/03/2019 10:46	3.20	Dry			
BH000009	01/03/2019 10:51	3.30	Dry			
BH000010	01/03/2019 10:55	4.30	Dry			
BH000011	01/03/2019 11:01	3.25	2.41			
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism		
BH000012	01/03/2019 11:09	3.70	1.03			
BH000022	01/03/2019 11:14	3.50	2.02			
BH000013	01/03/2019 11:21	5.25	1.69			

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Borehole 19 flooded

Gas Monitoring Results

Site:	Eastwood	Technician:	AF/JB	Weather:	Windy & sunny, 6°C	Round:	21 of 24
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Location	Date & Time	CH ₄ %	CO ₂ %	O ₂ %	Peak CH4 %	Peak CO ₂ %	Min O ₂ %	Pressure (mbar)	relative pressure	internal flow	CO (ppm)	H ₂ S
BH000002	15/03/2019 09:50	0.1	0.6	19.6	0.1	0.5	19.9	991	0.54	-0.2	0	0
BH000001												
BH000003	15/03/2019 09:59	0.1	1.2	20	0.1	1.1	20	991	0.43	-1.2	0	0
BH000015												
BH000004	15/03/2019 10:12	0	2.1	13.7	0.1	2	13.7	991	0.02	0	0	0
BH000017												
BH000005	15/03/2019 10:27	0	1.1	20.9	0.1	1.1	20.7	991	0.02	0	0	0
BH000018												
BH000014												
BH000006												
BH000007												
BH000008												
BH000019												
BH000016	15/03/2019 11:08	0	1	18.5	0	0.9	18.3	991	0.68	0	0	0
BH000020	15/03/2019 11:17	0	1.1	20.7	0	1.1	20.7	991	-0.02	0	0	0
BH000009	15/03/2019 11:26	0	0.5	21.4	0.1	0.5	21.3	992	0	0	0	0
BH000010	15/03/2019 11:35	0.1	0	21.9	0.1	0	21.5	992	-0.01	0.1	0	0
BH000011												
BH000021												
BH000012												
BH000022	15/03/2019 11:54	0.1	0.3	21.6	0.1	0.3	21.5	993	-0.05	0	0	0
BH000013	15/03/2019 12:03	0.1	0	21.9	0.1	0	21.5	994	0.68	-3.9	0	0

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 1, 6, 7, 8, 11, 12, 14, 15, 17, 19 flooded

Water Monitoring Results

Site:	Eastwood	Technician	AF/JB	Weather	Windy & sunny, 6°C	Round	21 of 24
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Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	15/03/2019 09:50	4.25	0.87	
BH000001	15/03/2019 09:42	4.25	0.01	Borehole flooded
BH000003	15/03/2019 09:59	4.20	2.64	
BH000015	15/03/2019 10:03	4.20	0.1	Borehole flooded
BH000004	15/03/2019 10:12	4.80	2.45	
BH000017	15/03/2019 10:20	4.30	0.56	Borehole flooded
BH000005	15/03/2019 10:27	4.30	2.93	
BH000018	15/03/2019 10:37	4.25	0.4	Borehole flooded
BH000014	15/03/2019 10:42	3.60	0.03	Borehole flooded
BH000006	15/03/2019 10:32	4.25	-0.17	Borehole flooded
BH000007	15/03/2019 10:47	4.20	1.01	Borehole flooded
BH000008	15/03/2019 10:53	4.30	-0.04	Borehole flooded
BH000019	15/03/2019 10:59	4.40	-0.09	Borehole flooded
BH000016	15/03/2019 11:08	18.47	13.43	
BH000020	15/03/2019 11:17	3.20	Dry	
BH000009	15/03/2019 11:26	3.30	3.41	
BH000010	15/03/2019 11:35	4.30	3.47	
BH000011	15/03/2019 11:39	3.25	0.05	Borehole flooded
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism
BH000012	15/03/2019 11:44	3.70	-0.15	Borehole flooded
BH000022	15/03/2019 11:54	3.50	0.79	
BH000013	15/03/2019 12:03	5.25	1.28	

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 1, 6, 7, 8, 11, 12, 14, 15, 17, 19 flooded

Gas Monitoring Results

Site:	Eastwood	Technician:	AF/MC	Weather:	Sunny, 11°C	Round:	22 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative pressure	internal flow	CO	H ₂ S
		%	%	%	%	%	%	(mbar)			(ppm)	
BH000002	29/03/2019 09:24	0.1	0.7	20.4	0.1	0.7	20.4	1019	-0.02	0	0	0
BH000001	29/03/2019 09:17	0.1	0	21.5	0.1	0	21	1019	-0.05	0	0	0
BH000003	29/03/2019 09:31	0.1	0.1	21	0.1	0.1	20.7	1020	0.09	0	0	0
BH000015	29/03/2019 09:38	0.1	0.4	20.8	0.1	0.4	20.8	1019	-0.02	0	0	0
BH000004	29/03/2019 09:46	0	2.1	14.4	0.1	2.1	14.3	1019	-0.01	0	0	0
BH000017	29/03/2019 09:53	0	1	20.6	0	1	20.1	1019	0	0	0	0
BH000005	29/03/2019 09:59	0	0.9	20.8	0	0.9	20.6	1019	-0.02	0	0	0
BH000018	29/03/2019 10:15	0	0.8	21.2	0	0.8	20.9	1020	-0.01	0	0	0
BH000014	29/03/2019 10:22	0	1.6	20.1	0	1.6	20.1	1019	-0.02	0.1	0	0
BH000006	29/03/2019 10:08	0	1.2	20.7	0	1.2	20.5	1019	-0.01	0	0	0
BH000007	29/03/2019 10:29	4.1	0.4	19.7	4	0.4	19.7	1019	-0.02	0	0	0
BH000008	29/03/2019 10:37	0	1.7	19.6	0.1	1.7	19.6	1020	-0.03	0	0	0
BH000019	Borehole flooded											
BH000016	29/03/2019 10:51	0.1	0.5	19.5	0.1	0.5	19.3	1019	0.73	0	0	0
BH000020	29/03/2019 11:00	0.1	1.2	20.2	0.1	1.2	20.2	1019	-0.05	0.1	0	0
BH000009	29/03/2019 11:07	0.1	0.6	20.3	0.1	0.6	20.3	1019	-0.02	0.1	0	0
BH000010	29/03/2019 11:16	0.1	0	21.5	0.1	0	21.2	1020	-0.08	0	0	0
BH000011	29/03/2019 11:24	0.1	1.4	19.5	0.1	1.4	19.5	1020	-0.06	0.1	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	Borehole flooded											
BH000022	29/03/2019 11:38	0.1	0.8	20.8	0.1	0.9	20.9	1020	-0.02	0	0	0
BH000013	29/03/2019 11:49	0.1	0	21.3	0.1	0	21.3	1021	0.48	-3.8	0	0

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 12 & 19 flooded.

Water Monitoring Results

Site:	Eastwood	Technician	AF/MC	Weather	Sunny, 11°C	Round	22 of 24
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Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	29/03/2019 09:24	4.25	2.11	
BH000001	29/03/2019 09:17	4.25	2.8	
BH000003	29/03/2019 09:31	4.20	3.47	
BH000015	29/03/2019 09:38	4.20	3.33	
BH000004	29/03/2019 09:46	4.80	3.88	
BH000017	29/03/2019 09:53	4.30	1.54	
BH000005	29/03/2019 09:59	4.30	2.66	
BH000018	29/03/2019 10:15	4.25	2.21	
BH000014	29/03/2019 10:22	3.60	1.66	
BH000006	29/03/2019 10:08	4.25	1.13	
BH000007	29/03/2019 10:29	4.20	3.02	
BH000008	29/03/2019 10:37	4.30	1.56	
BH000019	29/03/2019 10:41	4.40	0.72	Borehole flooded
BH000016	29/03/2019 10:51	18.47	13.73	
BH000020	29/03/2019 11:00	3.20	Dry	
BH000009	29/03/2019 11:07	3.30	Dry	
BH000010	29/03/2019 11:16	4.30	Dry	
BH000011	29/03/2019 11:24	3.25	1.89	
BH000021	Borehole Destroyed by Vandalism			Borehole Destroyed by Vandalism
BH000012	29/03/2019 11:30	3.70	0.44	Borehole flooded
BH000022	29/03/2019 11:38	3.50	1.6	
BH000013	29/03/2019 11:49	5.25	1.34	

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Boreholes 12 & 19 flooded.

Gas Monitoring Results

Site:	Eastwood	Technician	AF, JB	Weather	Sunny, 7°C	Round	23 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	12/04/2019 08:52	0.2	0.9	20.9	0.2	0.9	20.9	1018	-0.02	0	0	0
BH000001	12/04/2019 08:43	0.2	0.8	20.8	0.2	0.8	20.8	1018	-0.04	0	0	0
BH000003	12/04/2019 09:01	0.2	0.1	21.7	0.2	0.1	21.3	1018	-0.01	0	0	0
BH000015	12/04/2019 09:09	0.2	0.7	21.4	0.2	0.7	21.2	1018	0	0	0	0
BH000004	12/04/2019 09:20	0.2	0.6	20.7	0.2	0.6	20.8	1017	0	0	0	0
BH000017	12/04/2019 09:28	0.1	1	21.1	0.2	1	21.1	1018	0	0	0	0
BH000005	12/04/2019 09:36	0.1	1.2	20.9	0.2	1.2	20.9	1017	0.01	0	0	0
BH000018	12/04/2019 09:52	0.1	0.7	21.3	0.2	0.7	21.3	1018	0	0	0	0
BH000014	12/04/2019 10:03	0.1	1.5	20.4	0.1	1.7	20	1018	0	0	7	0
BH000006	12/04/2019 09:44	0.2	0.6	21.4	0.2	0.6	21.4	1018	0.01	0	0	0
BH000007	12/04/2019 10:09	6.2	0.5	19.9	6.3	0.5	19.8	1018	0	0	0	0
BH000008	12/04/2019 10:18	0.1	1.5	20.3	0.3	1.5	20.3	1018	0	0	0	0
BH000019	Borehole Flooded											
BH000016	12/04/2019 10:33	0.1	0.5	20.3	0.1	0.5	20	1017	0.24	0	0	0
BH000020	12/04/2019 10:42	0.1	0.9	21.2	0.1	0.9	21.2	1017	-0.02	0	0	0
BH000009	12/04/2019 10:50	0.1	0	21.8	0.1	0	21.4	1017	-0.03	0	0	0
BH000010	12/04/2019 10:58	0.1	1.3	20.1	0.1	1.7	19.5	1017	-0.02	0	0	0
BH000011	12/04/2019 11:06	0.1	1.8	19.1	0.1	1.8	19.2	1018	-0.03	0	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	12/04/2019 11:14	0.1	0.7	21.2	0.1	0.7	21	1018	-0.05	0	0	0
BH000022	12/04/2019 11:22	0.1	0.6	21.2	0.1	0.6	21.2	1019	-0.05	0	0	0
BH000013	12/04/2019 11:28	0.1	0	21.7	0.1	0	21.4	1019	0.24	0	0	0

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Borehole 19 flooded.

Water Monitoring Results

Site: Eastwood

Technician: AF/MC

Weather: Sunny, 7°C

Round: 23 of 24

Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	12/04/2019 08:52	4.25	2.18	
BH000001	12/04/2019 08:43	4.25	3.17	
BH000003	12/04/2019 09:01	4.20	3.52	
BH000015	12/04/2019 09:09	4.20	Dry	
BH000004	12/04/2019 09:20	4.80	4.01	
BH000017	12/04/2019 09:28	4.30	2.31	
BH000005	12/04/2019 09:36	4.30	2.59	
BH000018	12/04/2019 09:52	4.25	2.96	
BH000014	12/04/2019 10:03	3.60	2.26	
BH000006	12/04/2019 09:44	4.25	1.8	
BH000007	12/04/2019 10:09	4.20	2.92	
BH000008	12/04/2019 10:18	4.30	1.98	
BH000019	12/04/2019 10:23	4.40	0.82	Borehole flooded
BH000016	12/04/2019 10:33	18.47	14.05	
BH000020	12/04/2019 10:42	3.20	Dry	
BH000009	12/04/2019 10:50	3.30	Dry	
BH000010	12/04/2019 10:58	4.30	Dry	
BH000011	12/04/2019 11:06	3.25	2.14	
BH000021	Borehole Destroyed by Vandalism			
BH000012	12/04/2019 11:14	3.70	2.74	
BH000022	12/04/2019 11:22	3.50	1.7	
BH000013	12/04/2019 11:28	5.25	1.46	

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with. Borehole 19 flooded.

Gas Monitoring Results

Site:	Eastwood	Technician	AF/MC	Weather	Partly cloudy, 11°C	Round	24 of 24
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Location	Date & Time	CH ₄	CO ₂	O ₂	Peak CH4	Peak CO ₂	Min O ₂	Pressure	relative	internal	CO	H ₂ S
		%	%	%	%	%	%	(mbar)	pressure	flow	(ppm)	
BH000002	26/04/2019 09:28	0.2	1.2	20.3	0.2	1.1	20.3	997	-0.05	0	0	0
BH000001	26/04/2019 09:21	0.2	0.7	20.7	0.2	0.7	20.7	997	-0.06	0	0	0
BH000003	26/04/2019 09:36	0.2	0.1	21.2	0.2	0.1	20.8	998	-0.04	0	0	0
BH000015	26/04/2019 09:45	0.2	0.8	19.9	0.2	1	19.2	997	-0.02	0	0	0
BH000004	26/04/2019 09:53	0.1	1.3	19.8	0.2	1.3	19.8	997	0	0	0	0
BH000017	26/04/2019 10:01	0.1	1	20.7	0.1	1	20.6	997	-0.01	0	0	0
BH000005	26/04/2019 10:07	0.1	1.6	20.2	0.2	1.6	20.2	997	-0.01	0	0	0
BH000018	26/04/2019 10:24	0.1	3.7	13	0.1	3.6	12.8	998	-0.03	0	0	0
BH000014	26/04/2019 10:34	0.1	1.4	20.1	0.1	1.4	19.7	998	-0.02	0	0	0
BH000006	26/04/2019 10:17	0.1	0.7	20.7	0.1	0.7	20.8	998	-0.01	0	0	0
BH000007	26/04/2019 10:40	2.8	0.3	20.8	2.8	0.3	20.6	998	-0.04	0	0	0
BH000008	26/04/2019 10:48	0.1	1	20.8	0.2	1	20.8	998	-0.04	0	0	0
BH000019	26/04/2019 10:56	0.1	0.5	21	0.1	0.5	21.1	997	-0.06	0	0	0
BH000016	26/04/2019 11:04	0.1	0.3	20.4	0.1	0.3	20.3	997	0.79	0	0	0
BH000020	26/04/2019 11:13	0.1	0.9	20.9	0.1	0.9	20.9	997	-0.08	0	0	0
BH000009	26/04/2019 11:22	0.1	0.7	21	0.1	0.7	20.9	997	-0.04	0	0	0
BH000010	26/04/2019 11:29	0.1	0.1	21.7	0.1	0.1	21.1	997	-0.07	0	0	0
BH000011	26/04/2019 11:37	0.1	0.7	21	0.1	0.7	20.9	998	-0.1	0	0	0
BH000021	Borehole Destroyed by Vandalism											
BH000012	26/04/2019 11:44	0.1	0.8	21	0.1	0.8	21	998	-0.1	0	0	0
BH000022	26/04/2019 11:53	0.1	0.4	21.5	0.1	0.4	21.3	998	-0.11	0	0	0
BH000013	26/04/2019 12:02	0.1	0	21.6	0.1	0	21.5	999	0.55	-3.6	0	0

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site:	Eastwood	Technician	AF/MC	Weather	Partly cloudy, 11°C	Round	24 of 24
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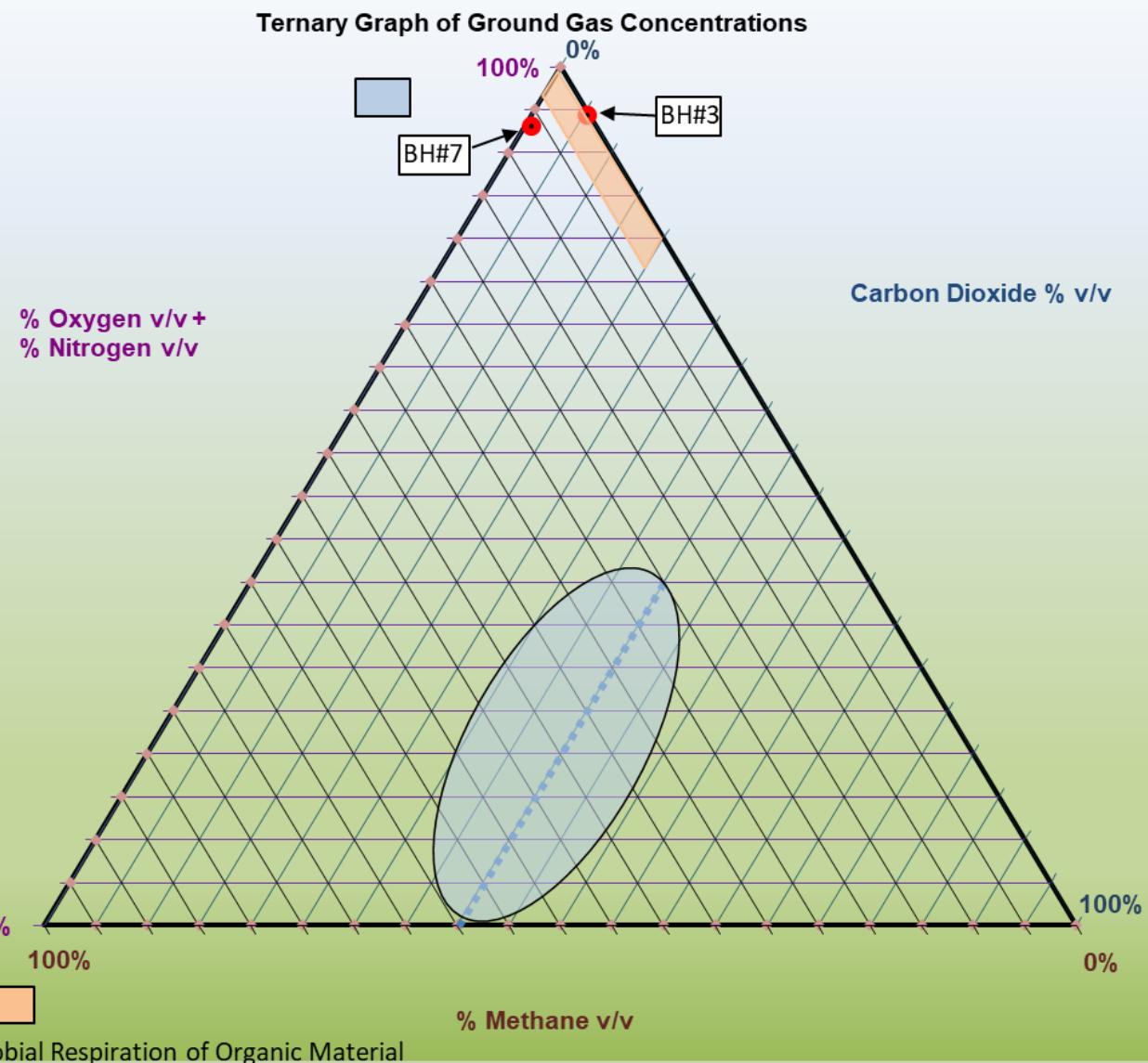
Location	Date & Time	Borehole	Water	Notes
		Depth (m)	Depth (m)	
BH000002	26/04/2019 09:28	4.25	2.39	
BH000001	26/04/2019 09:21	4.25	3.35	
BH000003	26/04/2019 09:36	4.20	3.59	
BH000015	26/04/2019 09:45	4.20	Dry	
BH000004	26/04/2019 09:53	4.80	4.16	
BH000017	26/04/2019 10:01	4.30	2.93	
BH000005	26/04/2019 10:07	4.30	2.97	
BH000018	26/04/2019 10:24	4.25	3.32	
BH000014	26/04/2019 10:34	3.60	2.54	
BH000006	26/04/2019 10:17	4.25	2.32	
BH000007	26/04/2019 10:40	4.20	3.24	
BH000008	26/04/2019 10:48	4.30	2.1	
BH000019	26/04/2019 10:56	4.40	1.14	
BH000016	26/04/2019 11:04	18.47	14.64	
BH000020	26/04/2019 11:13	3.20	Dry	
BH000009	26/04/2019 11:22	3.30	Dry	
BH000010	26/04/2019 11:29	4.30	Dry	
BH000011	26/04/2019 11:37	3.25	2.5	
BH000021	Borehole Destroyed by Vandalism			
BH000012	26/04/2019 11:44	3.70	1.16	
BH000022	26/04/2019 11:53	3.50	1.83	
BH000013	26/04/2019 12:02	5.25	1.49	

Notes:

Borehole 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Appendix 4

Ternary Graph of Results



Appendix 5

General References

Kiwa CMT Testing

British Standard 5930:2018 Code of Practice for Ground Investigations

British Standards (2015) BS 3882:2015 Specification for Topsoil

British Standards (2013) Specification for Subsoil and Requirements for Use

British Standards (2013) BS 10175:2011 + A1 2013 Investigation of Potentially Contaminated Sites – Code of Practice

British Standards (2013) BS EN 12579:2013 Soil Improvers and Growing Media – Sampling

British Standards (2013) BS 8576:2013 Guidance on Investigations for Ground Gas – Permanent Gases and Volatile Organic Compounds (VOCs)

British Standards (2019) BS 8485 (2015) + A1 (2019) Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings

CIRIA C735 (2014) Good Practice on the Testing and Verification of Protection Systems for Buildings Against Hazardous Ground Gases

CL:AIRE (2014) Development of category 4 screening levels (C4SL) for assessment of land affected by contamination

Classification, Labelling and Packaging of Substances and Mixtures Regulation (EC 1272/2008)

DEFRA (2009) Construction Code of Practice for the Sustainable Use of Soils on Construction Sites

Environment Agency (2002) Potential Contaminants for the Assessment of Land

Environment Agency (2004) Model Procedures for the Management of Contaminated Land (Contaminated Land Report 11)

Environment Agency (2009) SC05002/SR2 Human Health Toxicological Assessment of Contaminants in Soil

Environment Agency (2009) SC00521/SR3 Updated Technical Background to the CLEA Model

Environment Agency (2009) SC00521/SR4 CLEA Software (v1.04) Handbook

1st ATP – Regulation 790/2009/EC

2nd ATP – Regulation 286/2011/EC

3rd ATP – Regulation 618/2012/EU

4th ATP Regulation 487/2013/EU

Correction to 1st ATP – 758/2013/EU

5th ATP – Regulation 944/2013/EU

6th ATP – Regulation 605/2014/EU

7th ATP – Regulation 2015/1221/EU

8th ATP – Regulation 2016/918/EU

9th ATP – Regulation 2016/1179/EU

10th ATP – Regulation 2017/776/EU

List of Waste Decision 2002/532/EC

Nathanial, C.P., McCaffrey, C., Gillet, A.G., Ogden, R.C. and Nathanial, J.F. (2015) LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press. Nottingham.

PAS100 (2018) Specification for Composted Materials

POPs Regulation 2004 – Regulation 850/2004/EC

1st ATP to POPs regulation – Regulation 756/2010/EU

2nd ATP to POPs regulation – Regulation 756/2010/EU

Revised List of Wastes 2014 – Decision 2014/955/EU

Waste Framework Directive (WFD) 2008/98/EC

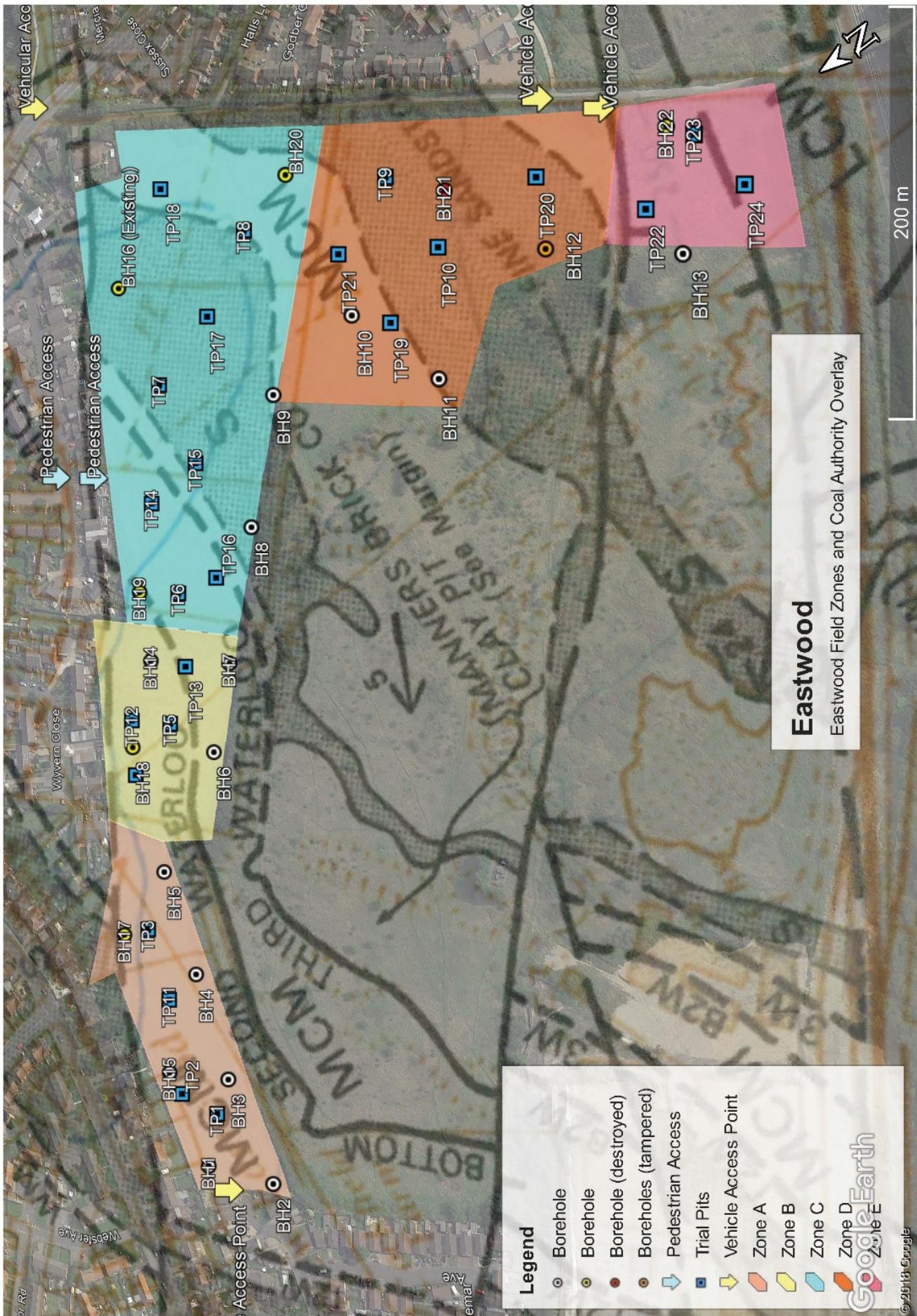
Water UK (2014) Contaminated Land Assessment - Risk Assessment for Water Pipes in Land Potentially Affected by Contamination

Wilson S., Collins, F. and Lavery, R. (2018) Using Ternary Plots for Interpretation of Ground Gas Monitoring Results

WM3 Environment Agency (2018) Guidance on the classification and assessment of waste (v1.1 2018)

Appendix 6

Google Earth & Coal Composite Map



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