



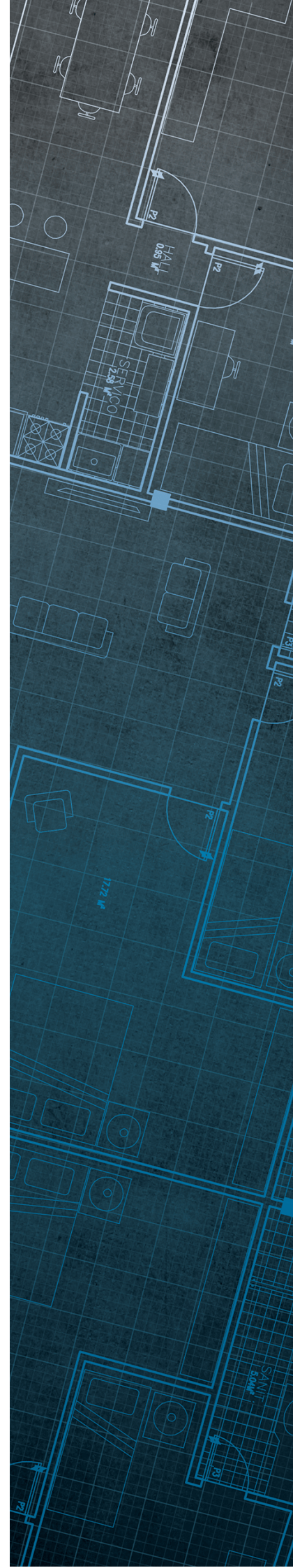
The Coal
Authority

Consultants Coal Mining Report

Westgate
Cleckheaton
BD19 5HT

Date of enquiry:	10 December 2018
Date enquiry received:	10 December 2018
Issue date:	10 December 2018

Our reference:	51001977620001
Your reference:	PO13943/JW/3043



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

LITHOS CONSULTING LTD

Enquiry address

Westgate
Cleckheaton
BD19 5HT

How to contact us

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200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

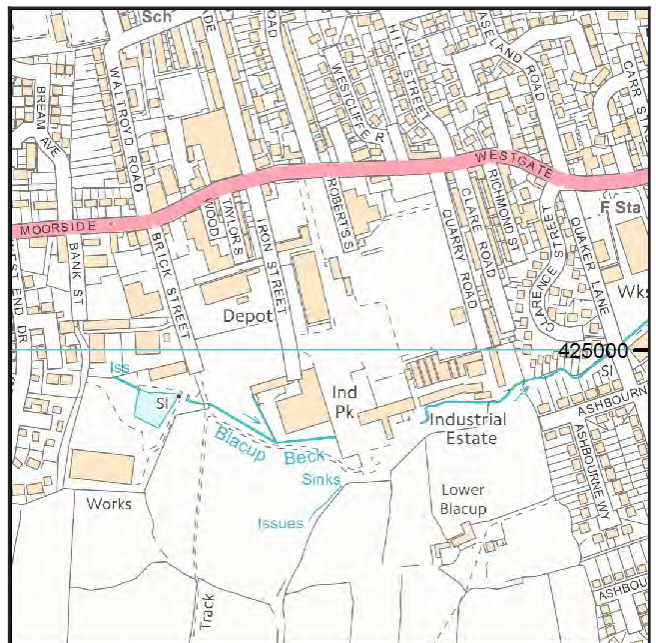
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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	BLACK BED	Coal	6NG1	62	Beneath Property	3.2	South	67	1880

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	418424-006	418334 424864		Coal	
Shaft	418425-007	418406 425243		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

M31	M49	1731
9069	8420	PO0
12674		

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

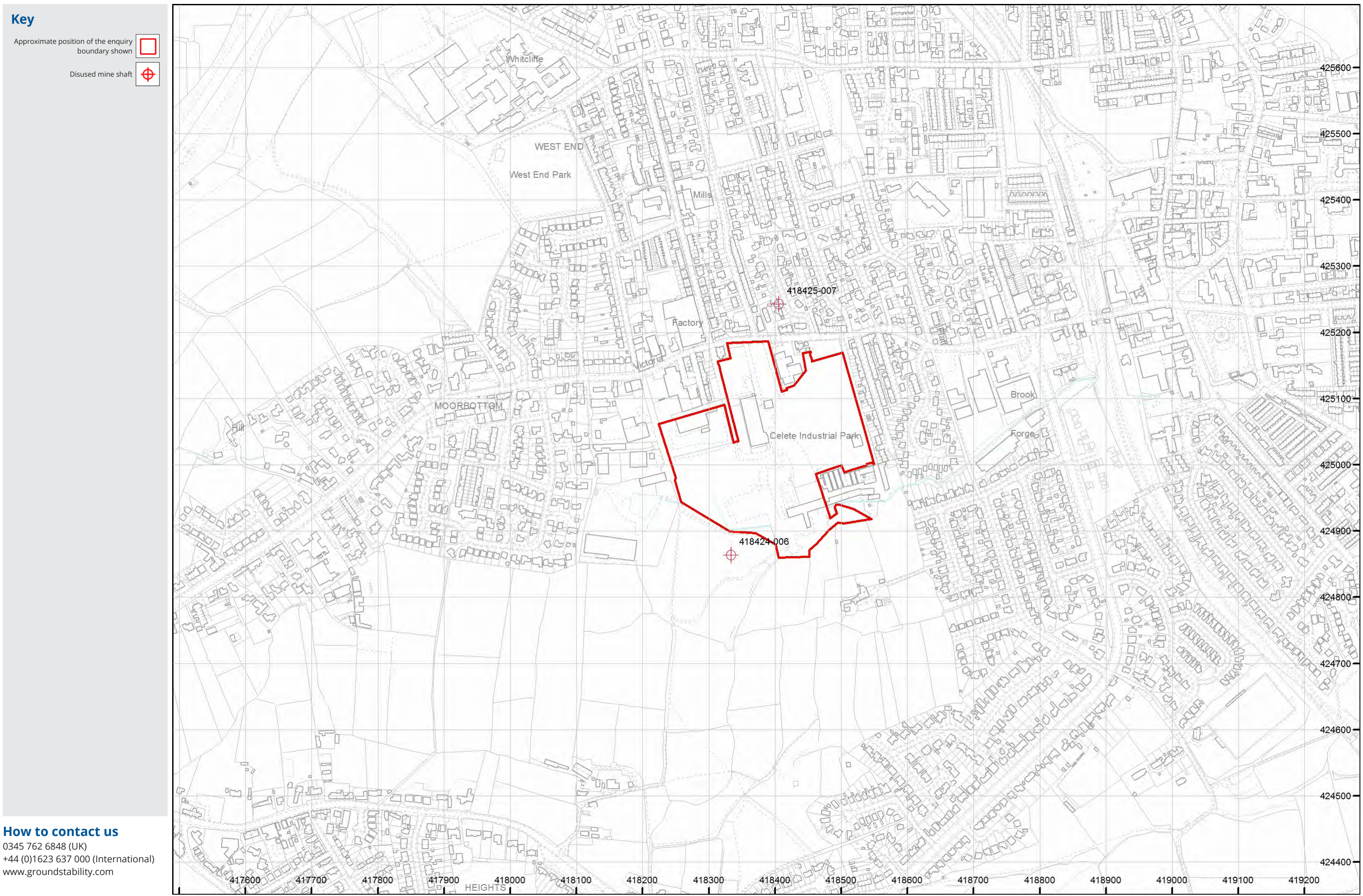
Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.



George Morton

From: George Morton
Sent: 23 November 2020 12:23
To: George Morton
Subject: FW: Your Enquiry: RFI/2018/109355

From: Hastings, Robert J <Robert.Hastings@environment-agency.gov.uk>
Sent: 09 January 2019 11:21
To: Liz Hart <Liz.Hart@lithos.co.uk>
Subject: Your Enquiry: RFI/2018/109355

Our Ref: RFI/2018/109355

Dear Liz,

RE: Permit status

Request for information under the Freedom of Information Act 2000 (FOIA) / Environmental Information Regulations 2004 (EIR)

Thank you for your enquiry which was received on 5th December 2018.

After consulting my specialist Waste Team I have found out that the Permits for this site have not been surrendered. There have been no pollution incidents recorded and the permit breaches were for security issues but these were quite some years ago and not applicable now. There is also no plan of a permit boundary.

I hope that we have correctly interpreted your request. Please see the Open Government Licence ([here](#)) for details of permitted use.

We respond to requests for recorded information that we hold under the Freedom of Information Act 2000 (FOIA) and the associated Environmental Information Regulations 2004 (EIR).

If you are not satisfied with our response to your request for information you can contact us within 2 calendar months to ask for our decision to be reviewed.

We would be really grateful if you could spare five minutes to help us improve our service. Please click on the link below and fill in our survey – we use every piece of feedback we receive:

<http://www.smartsurvey.co.uk/s/EnvironmentAgencyCustomerSurvey/?a=Y>

If you require any further help, please do not hesitate to contact me.

Yours sincerely

Rob Hastings | Customers and Engagement Team
Environment Agency | Lateral, 8 City Walk, Leeds, LS11 9AT
Enquiries Team Tel: 020 847 48174 | Email: neyorkshire@environment-agency.gov.uk

Email: robert.hastings@environment-agency.gov.uk

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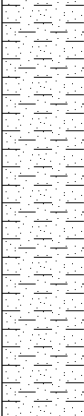
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Appendix F

Trial Pit Logs

				Trial Pit Log			Trialpit No TT401 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: - Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		16.6 		Scale 1:25	
Client: Micheal Steel & Co				Depth 3.00		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J&T		0.20			MADE GROUND: Pinkish red sandy angular fine to coarse GRAVEL of burnt shale and limestone with occasional fragment of wood. (SUB-BASE)	1
	0.40	J&T					MADE GROUND: Black ashy slightly gravelly SAND. Gravel is subangular fine to coarse of clinker and brick with occasional glass fragment. (ASH & CLINKER)	
				1.60			<i>After completion trial pit trenched to identify quarry highwall - 5m from W edge natural ground encountered at 1.5m, 9m from W natural at 2.2m, 10m from W natural at 2.8m, 11m from W natural at 4.1m, 16.6m from W still in made ground at 5.1m depth.</i> <i>Band of pinkish red ash 1.3m to 1.4m.</i>	2
	1.80	D	HVP=50				Firm light brown sandy slightly gravelly CLAY. Gravel is subangular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)	
			HVP=50	3.00			End of pit at 3.00 m	3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.	
Stability: 1. The sides of the trial pit remained stable during excavation.	

				Trial Pit Log			Trialpit No TT401 E Sheet 1 of 2		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: - Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m): Depth 5.10				Scale 1:25 Logged JEJ	
Client: Micheal Steel & Co									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			MADE GROUND: Pinkish red sandy angular fine to coarse GRAVEL of burnt shale and limestone with occasional fragment of wood. (SUB-BASE)	1 2 3 4 5
							MADE GROUND: Black ashy slightly gravelly SAND. Gravel is subangular fine to coarse of clinker and brick with occasional glass fragment. (ASH & CLINKER)	
Continued on next sheet								

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

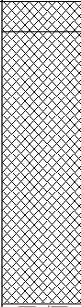
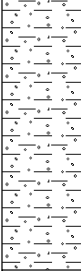


				Trial Pit Log			Trialpit No TP402 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418459.00 - 425122.60 Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		3.6 		Scale 1:25	
Client: Strata Homes				Depth 4.20		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40	J&T		1.20			MADE GROUND: Black very gravelly SAND with medium cobble content. Gravel and cobbles are angular of brick, sandstone, clinker and burnt shale. (GRANULAR MADE GROUND) <u>Sandstone and brick wall from 0.2m to 0.7m oriented E-W, 0.2m thick.</u>	1
							MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of brick, sandstone, paving slab with fragments of wood and metal. (ASH & CLINKER) <u>Pocket of firm brown gravelly CLAY between 1.2m and 1.4m, 1.0mx0.6mx0.2m.</u>	2
	2.60	J&K					<u>Faint hydrocarbon odour between 2.5m and 2.8m depth.</u>	
	3.00	B						
				3.60			MADE GROUND: Reddish brown ashy gravelly SAND. Gravel is angular fine of clinker. (ASH & CLINKER)	
				3.80			MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of brick, sandstone, paving slab with fragments of wood and metal. (ASH & CLINKER)	4
				4.20			End of pit at 4.20 m	5

Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.	
Stability:	1. The sides of the trial pit remained stable during excavation.	

				Trial Pit Log			Trialpit No TP403 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418496.66 - 425134.95 Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		3 		Scale 1:25	
Client: Strata Homes				Depth 2.10		0.6 		Logged JEJ	

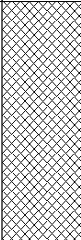
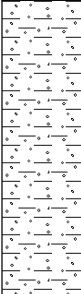
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.30	J,K&T	HVP=90	0.10			MADE GROUND: Grass over pinkish red COBBLES of whole brick. (GRANULAR MADE GROUND) MADE GROUND: Black ashy slightly gravelly SAND with occasional cobble content. Gravel and cobbles are angular of brick, roof tile, paving slab with fragments of wood, steel, rope and plastic. (GRANULAR MADE GROUND) <i>Hydrocarbon odour whilst excavating through made ground, some bricks had visible oil staining.</i> <i>Slight groundwater seepage at 0.8m with oily sheen.</i> <i>Overbreak when excavating through made ground.</i>	1		
	1.40	D		1.00					Stiff orangish brown mottled grey gravelly CLAY. (COHESIVE RESIDUAL SOIL)	
				1.90					Medium strong orangish brown thickly bedded SANDSTONE. Recovered as clayey cobbles and boulders. (COAL MEASURES)	2
				2.10					End of pit at 2.10 m	
								3		
								4		
								5		

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as a seepage at 0.8m depth. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit were unstable between ground level and 1.0m depth during excavation with overbreak in the made ground.

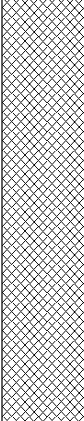
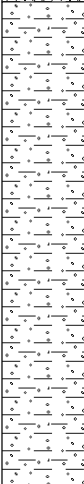


				Trial Pit Log			Trialpit No TP404 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418505.12 - 425098.05 Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		3 		Scale 1:25	
Client: Strata Homes				Depth 2.10		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J&T					MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker, brick and roof tile. (ASH & CLINKER) <i>Excavated through 0.1m thick concrete slab with 0.3m wide brick wall below to 0.6m depth.</i>	
	0.90	D		0.80			Stiff orangish brown and light grey mottled gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)	1
				1.80			Medium strong orangish brown thickly bedded SANDSTONE. Recovered as clayey cobbles and boulders. (COAL MEASURES)	2
				2.10			End of pit at 2.10 m	3
								4
								5

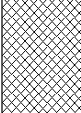
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP405 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418510.36 - 425012.02 Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		3 		Scale 1:25	
Client: Strata Homes				Depth 3.00		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	J&T					MADE GROUND: Black ashy slightly gravelly SAND. Gravel is angular to subrounded fine to coarse of clinker and brick with occasional fragments of glass and metal and occasional rootlets. (ASH & CLINKER) Spalling of made ground from 0.3m to 1.0m.	1
	1.80	D	HVP=60	1.40				Firm orangish brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)
			HVP=45	3.00				End of pit at 3.00 m
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as inflow at 2.6m during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between 0.3m and 1.0m depth during excavation.		

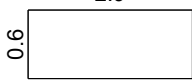
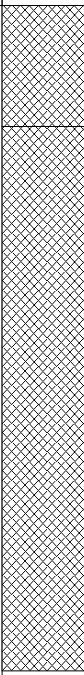
				Trial Pit Log			Trialpit No TP406 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418483.44 - 425023.80 Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 1.90				Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J&T					MADE GROUND: Light brown gravelly SAND. Gravel is angular fine to coarse of brick and sandstone. (GRANULAR MADE GROUND)	
							Brick wall at W trial pit end from 0.2m to 0.8m, 0.4m wide.	
				0.70			MADE GROUND: Black concrete slab with occasional brick. (CONCRETE)	
				0.90			Concrete slab appeared to be oil stained.	
							MADE GROUND: Reddish brown ashy gravelly SAND. Gravel is angular fine of clinker. (ASH & CLINKER)	1
				1.30			Overbreak when excavating through made ground.	
							Orangish brown and grey mottled clayey angular fine to coarse GRAVEL of sandstone. (GRANULAR RESIDUAL SOIL)	
				1.60			Medium strong orangish brown thickly bedded SANDSTONE. Recovered as angular gravel and cobbles. (COAL MEASURES)	
				1.90			End of pit at 1.90 m	2
								3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit were unstable between ground level and 1.3m depth during excavation with overbreak in the made ground.



				Trial Pit Log			Trialpit No TP407 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418487.36 - 425003.14 Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		2.9		Scale 1:25	
Client: Strata Homes				Depth 2.20				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.60	J&T		0.40			MADE GROUND: Brown sandy angular fine to coarse GRAVEL of brick. (GRANULAR MADE GROUND)		
				2.20			MADE GROUND: Brown and pinkish red sandy angular fine to coarse GRAVEL and COBBLES of brick, sandstone with occasional wood, metal and plastic fragments. (BRICKFILL)		
							<i>Constant spalling of made ground throughout excavation.</i>		
							<i>Final depth treated with caution due to constant spalling/collapsing of trial pit walls.</i>		
							End of pit at 2.20 m		
1 2 3 4 5									
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit were unstable between ground level and 2.2m depth during excavation.									





TP408

Sheet 1 of 1

Level:

3.6

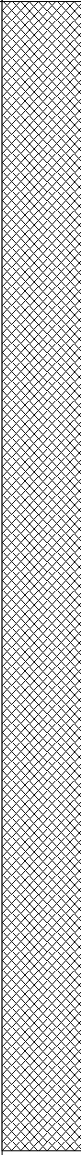
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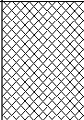
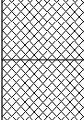
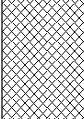
Logged
JEJ

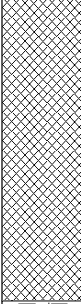
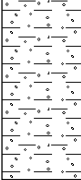
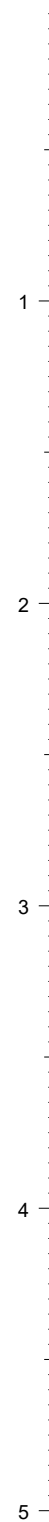
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.40	J&T		0.20			MADE GROUND: Reddish pink and grey angular fine to coarse GRAVEL of brick and concrete. (GRANULAR MADE GROUND)	1		
							MADE GROUND: Black ashy slightly gravelly SAND. Gravel is angular fine to coarse of clinker and brick. (ASH & CLINKER)			
	1.40	B		1.60			MADE GROUND: Brown ashy slightly gravelly SAND. Gravel is subangular of clinker. (ASH & CLINKER)	2		
							2.50			MADE GROUND: Black ashy slightly gravelly SAND. Gravel is angular fine to medium of clinker. (ASH & CLINKER)
										<u>Spalling of made ground from 3.0m to 4.2m.</u>
				4.40			End of pit at 4.40 m	4		
								5		



Stability: 1. The sides of the trial pit were unstable between 3.0m and 4.2m depth during excavation.

				Trial Pit Log			Trialpit No TP409 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418459.52 - 425031.69 Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		3.4		Scale 1:25	
Client: Strata Homes				Depth 3.80				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	J&T					MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker and brick with occasional metal fragment. (ASH & CLINKER)		
							9 boulder sized fragments of concrete and bonded brickwork >0.6m across between ground level and 1.5m.		
							Major overbreak and spalling within made ground.		
				3.80			Trial pit terminated due to constant spalling of sidewalls. End of pit at 3.80 m		
Remarks: Stability: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in. 1. The sides of the trial pit were unstable between ground level and 3.8m depth during excavation. 									

				Trial Pit Log			Trialpit No TP410 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418460.41 - 425062.87 Level:		Date 09/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2		Scale 1:25	
Client: Strata Homes				Depth 3.60				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	J&T		0.40			MADE GROUND: Grey and light brown slightly gravelly fine to medium SAND. Gravel is angular fine of brick. (GRANULAR MADE GROUND)		
							MADE GROUND: Black ashy slightly gravelly SAND. Gravel is subangular fine to coarse of clinker and brick. (ASH & CLINKER)		
	1.90	B		2.00			MADE GROUND: Reddish brown ashy gravelly SAND. Gravel is angular fine of clinker. (ASH & CLINKER)		
				2.20			MADE GROUND: Black ashy slightly gravelly SAND. Gravel is subangular fine to coarse of clinker and brick. (ASH & CLINKER)		
							Constant spalling of made ground throughout excavation.		
				3.60			End of pit at 3.60 m		
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit were unstable between ground level and 3.6m depth during excavation.									

				Trial Pit Log			Trialpit No TT411 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: - Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		8.3 		Scale 1:25	
Client: Micheal Steel & Co				Depth 1.60		0.6 		Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	J&T	HVP=45	1.00		 MADE GROUND: Black ashy gravelly SAND with low cobble content. Gravel and cobbles are angular of clinker, brick, concrete, sandstone and rare metal fragments. (ASH & CLINKER) <i>Spalling of made ground during excavation.</i>	<i>Trial pit trenched out on completion to locate quarry high wall, 4m from E trial pit wall natural ground at 1.2m, 4.9m from E natural at 1.6m, 8.3m from E natural not encountered at 2.7m depth.</i>		
				1.60		 Firm brown sandy slightly gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)			
							End of pit at 1.60 m		
1 2 3 4 5 									
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit were unstable between ground level and 1.0m depth during excavation.									



				Trial Pit Log			Trialpit No TT411 E Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: - Level:		Date 10/01/2019
Location: Cleckheaton						Dimensions (m):		Scale 1:25
Client: Micheal Steel & Co						Depth 2.70		Logged JEJ

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
							MADE GROUND: Black ashy gravelly SAND with low cobble content. Gravel and cobbles are angular of clinker, brick, concrete, sandstone and rare metal fragments. (ASH & CLINKER)	1
								2
				2.70			End of pit at 2.70 m	3
								4
								5

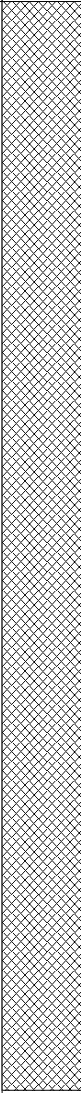
Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.	
Stability:	1. The sides of the trial pit were unstable between ground level and 2.7m depth during excavation.	

				Trial Pit Log			Trialpit No TP412 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418415.43 - 425049.98 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3 		Scale 1:25	
Client: Strata Homes				Depth 2.10		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J&T		0.20			MADE GROUND: Black sandy angular fine to coarse GRAVEL of road planings and rare brick. (ASH & CLINKER)	
	1.00	J&T					MADE GROUND: Reddish brown ashy gravelly SAND. Gravel is angular to subangular fine to medium of clinker. (ASH & CLINKER)	
							<i>Spalling of made ground during excavation.</i>	1
	2.00	T		1.70			Strong yellowish brown thinly bedded SANDSTONE. Recovered as clayey gravel and cobbles. (COAL MEASURES)	
				2.10			End of pit at 2.10 m	2
								3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between ground level and 1.7m depth during excavation.		

				Trial Pit Log			Trialpit No TP413 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418441.73 - 425020.33 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 3.60				Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	J&T					MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker, brick, paving slab with rare fragments of plastic and rope. (ASH & CLINKER)
	1.20	B					Occasional pockets of red ash and clinker 0.3mx0.3m throughout. Spalling of made ground during excavation.
				3.60			End of pit at 3.60 m

Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.	
Stability:	1. The sides of the trial pit were unstable between ground level and 3.6m depth during excavation.	

				Trial Pit Log			Trialpit No TP414 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418412.18 - 425017.50 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.6 		Scale 1:25	
Client: Strata Homes				Depth 2.60		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J&T	HVP=60	0.03		 MADE GROUND: Black sandy GRAVEL of road planings (HARDCORE)  MADE GROUND: Orangish brown ashy gravelly SAND. Gravel is angular fine to medium of clinker and brick with rare sandstone cobble. (ASH & CLINKER)  MADE GROUND: Black ashy slightly gravelly SAND. Gravel is fine to medium of clinker. (ASH & CLINKER) Spalling of made ground during excavation.		
	1.00	D		0.40				
				0.90				
				1.50				
	2.00	T		2.50		 Firm orangish brown sandy gravelly CLAY. Gravel is angular to subangular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)		1
						 Orangish brown mottled light grey clayey angular fine to coarse GRAVEL of sandstone and sandstone lithorelicts. (GRANULAR RESIDUAL SOIL)		2
				3.60		 Strong orangish brown thickly bedded SANDSTONE. Recovered as clayey gravel and cobbles. (COAL MEASURES) End of pit at 2.60 m		3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between ground level and 0.9m depth during excavation.		

				Trial Pit Log			Trialpit No TP415 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418418.49 - 425022.01 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 3.60		0.6		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.05	J		0.07			MADE GROUND: Weak black MACADAM. 80% aggregate of angular fine to medium gravel of basalt. 10% large voids. (HARDSTAND) MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker and brick with occasional salt glaze pipe. (ASH & CLINKER)	
	1.20	J,K&T		1.00			MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker. Clinker is stained yellow. (ASH & CLINKER) <i>Faint ammonia smell when excavating between 1.0m and 1.5m.</i>	1
				1.50			MADE GROUND: Orangish brown ashy gravelly SAND. Gravel is angular fine to medium of clinker. (ASH & CLINKER)	2
				3.60			End of pit at 3.60 m	4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP416 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418428.30 - 424989.86 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.6 		Scale 1:25	
Client: Strata Homes				Depth 3.40		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J&T					MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker, concrete, paving slab and brick. (ASH & CLINKER) <i>Brick wall at N trial pit end 0.2m to 1.2m, 0.6m wide.</i>	1
				1.80			<i>Pocket of purplish red fine to medium SAND at 1.5m, 0.3mx0.6mx0.2m.</i>	2
	2.80	B					MADE GROUND: Orangish brown ashy gravelly SAND. Gravel is angular fine to medium of clinker. Clinker is stained yellow in places. (ASH & CLINKER)	3
				3.40			<i>Spalling of made ground during excavation.</i>	4
							End of pit at 3.40 m	5

Remarks:		1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.	
Stability:		1. The sides of the trial pit were unstable between ground level and 3.4m depth during excavation.	

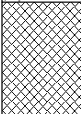
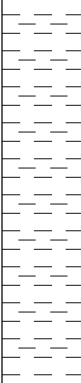


				Trial Pit Log			Trialpit No TP417 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418421.47 - 424951.33 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.3 		Scale 1:25	
Client: Strata Homes				Depth 2.10		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.05			MADE GROUND: Strong multicoloured CONCRETE. 30% aggregate of rounded fine to medium gravel of mixed lithology. 5% small voids. (CONCRETE)	
				0.10				
				0.30			MADE GROUND: Strong grey CONCRETE. 40% aggregate of rounded fine to medium gravel of mixed lithology. (CONCRETE)	
	0.40	J,K&T		0.50			MADE GROUND: Strong greyish brown CONCRETE. 90% aggregate of rounded fine to medium gravel of sandstone. 10% honeycomb voids. (CONCRETE)	
				0.90			MADE GROUND: Orangish brown sandy gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE MADE GROUND)	1
	1.00	J,K&T		1.20			MADE GROUND: Black sandy ashy angular fine to coarse GRAVEL of clinker, sandstone and concrete. (ASH & CLINKER)	
							MADE GROUND: Reddish brown ashy gravelly SAND. Gravel is angular fine to coarse of clinker and burnt shale. (ASH & CLINKER)	
							MADE GROUND: Black angular fine to coarse GRAVEL and COBBLES of sandstone. (GRANULAR MADE GROUND)	
							Major groundwater inflow at 1.2m depth.	
							Spalling of made ground during excavation.	
							Excavation ceased at 2.1m due to constant inflow of groundwater.	2
				2.10			End of pit at 2.10 m	
								3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as a major inflow at 1.2m depth. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between ground level and 2.1m depth during excavation.		

				Trial Pit Log			Trialpit No TP418 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418412.23 - 424922.33 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 3.30				Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40	J,K&T		0.30		 MADE GROUND: Strong grey CONCRETE with 5mm reinforcement. 50% to 60% aggregate of angular fine to medium gravel of mixed lithology. (CONCRETE)		
						 MADE GROUND: Black gravelly SAND with low cobble content. Gravel and cobbles are angular to subangular fine to coarse of brick, sandstone, paving slab and roof tile. (BRICKFILL) <i>Excavated along old brick chamber between 0.4m and 2.0m depth - at 1.8m, 0.2m diameter former drainage pipe, groundwater flowing out of pipe.</i>	1	
			HVP=10	2.00		 Soft grey silty CLAY with rare rootlets. (COHESIVE ALLUVIUM)	2	
			HVP=10	3.30		<i>Trial pit terminated at 3.3m due to inflow of water from former drainage pipe.</i> End of pit at 3.30 m	3	
							4	
							5	

Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.	
Stability:	1. The sides of the trial pit were unstable between ground level and 2.0m depth during excavation.	

				Trial Pit Log			Trialpit No TP419 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418443.94 - 424901.16 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.3 		Scale 1:25	
Client: Strata Homes				Depth 3.70		0.6		Logged JEJ	

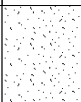
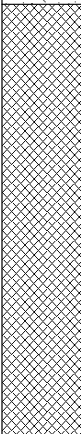
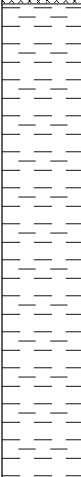
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	J,K&T		0.10 0.20 0.40 0.60		    	MADE GROUND: Strong grey CONCRETE with 5mm reinforcements. 40% aggregate of angular to subangular fine to medium gravel of mixed lithologies. (CONCRETE) MADE GROUND: Pinkish red COBBLES of whole brick. (BRICKFILL) MADE GROUND: Strong multicoloured CONCRETE. 50% to 60% aggregate of rounded fine to medium gravel of mixed lithology. Two steel 'L' shaped beams 5mmx5mm. (CONCRETE) MADE GROUND: Black fine to medium SAND. (GRANULAR MADE GROUND)	1
	1.10	J,K&T					MADE GROUND: Pinkish red and brown ashy slightly gravelly SAND. Gravel is angular to subangular fine to medium of clinker. (ASH & CLINKER)	
							Spalling of made ground during excavation.	2
	2.60	D	HVP=50	2.40			Firm grey CLAY. (COHESIVE ALLUVIUM)	
			HVP=30	2.80			Soft grey CLAY. (COHESIVE ALLUVIUM)	3
			HVP=30	3.50 3.70			Firm brown mottled grey slightly gravelly CLAY. Gravel is subrounded fine of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)	4
							End of pit at 3.70 m	5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between ground level and 2.4m depth during excavation.		

				Trial Pit Log			Trialpit No TP420 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418427.09 - 424871.23 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 1.80		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			MADE GROUND: Strong grey CONCRETE with 5mm reinforcements. 40% aggregate of angular fine to medium gravel of mixed lithology. (CONCRETE)	
	0.60	J,K&T		0.50			MADE GROUND: Pinkish red and brown slightly sandy GRAVEL and COBBLES of brick. (BRICKFILL)	
	0.90	K		0.80			MADE GROUND: Brown gravelly CLAY. Gravel is angular fine to coarse of brick and mudstone. (COHESIVE MADE GROUND)	
							Slight groundwater seepage at 0.6m with oily sheen and faint hydrocarbon odour.	
				1.20			Grey slightly clayey angular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)	1
	1.60	T		1.80			Weak grey thinly bedded MUDSTONE. Recovered as slightly clayey gravel. Gravel is stained orangish brown. (COAL MEASURES)	
							End of pit at 1.80 m	2
								3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as a slight seepage at 0.6m during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP421 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418401.48 - 424899.14 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.4		Scale 1:25	
Client: Strata Homes				Depth 3.70				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.50	J,K&T		0.35			MADE GROUND: Strong grey CONCRETE with 5mm reinforcements. 50% aggregate of subangular fine to medium gravel of mixed lithology. (CONCRETE)		
				1.80		MADE GROUND: Black sandy angular fine to coarse GRAVEL with medium cobble content. Gravel and cobbles are whole brick. Slightly clayey in places. (BRICKFILL) <i>Brick wall in W trial pit face 0.35 to 1.8m depth.</i> <i>Spalling of made ground during excavation.</i>			
	2.00	D				Soft brown mottled orangish brown CLAY. (COHESIVE ALLUVIUM)			
	3.50	D				Firm orangish brown mottled grey gravelly CLAY. Gravel is subangular to subrounded fine to medium of mudstone and mudstone lithorelicts. (COHESIVE RESIDUAL SOIL) <i>No blocks for vane beyond 3.4m.</i> <i>Slight groundwater seepage at 3.7m depth in base of pit.</i> End of pit at 3.70 m			
				3.70					
1 2 3 4 5									
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as a slight seepage at 3.7m during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit were unstable between ground level and 1.8m depth during excavation.									



				Trial Pit Log			Trialpit No TP422 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418375.41 - 424913.81 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		2.6 		Scale 1:25	
Client: Strata Homes				Depth 1.20		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Grass over weak grey CONCRETE. 40% aggregate of angular fine to medium gravel of mixed lithology. (CONCRETE) MADE GROUND: Black slightly ashy slightly sandy angular fine to coarse GRAVEL of brick. (GRANULAR MADE GROUND) <i>Brick chamber along W trial pit wall from 0.2m to 1.2m depth.</i>
				1.20			<i>Trial pit terminated at 1.2m due to groundwater inflow from brick chamber.</i> End of pit at 1.20 m

Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.
Stability:	1. The sides of the trial pit remained stable during excavation.



				Trial Pit Log			Trialpit No TP423 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418326.28 - 424940.52 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 2.80		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	J,K&T	HVP=30	0.15			MADE GROUND: Strong grey CONCRETE with 5mm reinforcements. 40% aggregate of angular fine to medium gravel of mixed lithology. (CONCRETE)	
							MADE GROUND: Black ashy slightly gravelly SAND. Gravel is angular fine to coarse of clinker and brick. (ASH & CLINKER) <i>Hard excavating between 0.3m and 0.8m depth.</i>	
	0.90	B		1.00			Soft orangish brown mottled light grey slightly gravelly CLAY. Gravel is subrounded to rounded fine to coarse of sandstone and mudstone. (COHESIVE ALLUVIUM)	1
	1.30	D		1.40			Grey mottled orangish brown very clayey angular fine to coarse GRAVEL of mudstone and mudstone lithorelicts. (GRANULAR RESIDUAL SOIL)	2
	1.80	T					<i>Slight groundwater seepage in base of pit at 2.1m whilst sampling.</i>	
	2.60	T		2.50			Weak grey thinly bedded MUDSTONE. Recovered as slightly clayey gravel. (COAL MEASURES)	3
				2.80		End of pit at 2.80 m		

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as a slight seepage at 2.1m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit remained stable during excavation.



				Trial Pit Log			Trialpit No TP424 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418341.27 - 424968.98 Level:		Date 10/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 2.80		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	J,K&T		0.15			MADE GROUND: Strong grey CONCRETE. 30% to 40% aggregate of angular to subangular fine to medium gravel of mixed lithology. (CONCRETE)	
				0.40			MADE GROUND: Pinkish red slightly sandy COBBLES of sandstone and brick. (BRICKFILL)	
				0.90			MADE GROUND: Grey mottled orangish brown gravelly CLAY. Gravel is angular to subrounded fine to coarse of brick, sandstone and mudstone. (BRICKFILL)	
	1.30	D	HVP=55				Firm brown sandy slightly gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)	1
							No blocks for vane beyond 1.3m depth.	2
	2.70	T		2.60			Strong yellowish brown thinly bedded SANDSTONE. Recovered as clayey gravel. (COAL MEASURES)	3
				2.80			End of pit at 2.80 m	4
								5

Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.	
Stability:	1. The sides of the trial pit remained stable during excavation.	

Trial Pit Log

Trialpit No

TP425

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418375.95 - 424952.05

Level:

Date

11/01/2019

Location: Cleckheaton

Dimensions (m):

3.3

Scale

1:25

Client: Strata Homes

Depth
2.90

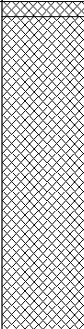
0.6

Logged
JEJ

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	J,K&T		0.10 0.20			MADE GROUND: Strong grey CONCRETE. 40% aggregate of rounded fine to medium gravel of mixed lithology. Plastic membrane at bottom. (CONCRETE) MADE GROUND: Brown COBBLES of sandstone. (GRANULAR MADE GROUND) MADE GROUND: Black ashy gravelly SAND. Gravel is angular to subangular fine to coarse of clinker. (ASH & CLINKER) <i>Strong hydrocarbon odour between 0.2m and 1.1m depth.</i>	
	0.90	J&K		0.80			MADE GROUND: Reddish brown ashy gravelly SAND. Gravel is angular fine to medium of clinker. (ASH & CLINKER)	1
	1.30	K		1.10			Firm brown slightly sandy CLAY. (COHESIVE RESIDUAL SOIL) <i>No blocks for vane between 1.1m and 1.9m.</i>	
	2.00	D	HVP=45	1.90			Firm orangish brown mottled light grey slightly gravelly CLAY. Gravel is angular fine of mudstone. (COHESIVE RESIDUAL SOIL)	2
				2.50			Weak grey thinly bedded MUDSTONE. Recovered as fine to coarse gravel. (COAL MEASURES) <i>Slight groundwater seepage at 2.5m depth.</i>	
				2.90			End of pit at 2.90 m	3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as a slight seepage at 2.5m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit remained stable during excavation.

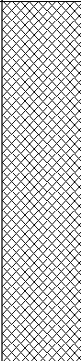
				Trial Pit Log			Trialpit No TP426 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418382.03 - 424985.91 Level:		Date 11/01/2019	
Location: Cleckheaton				Dimensions (m):		3 0.6		Scale 1:25	
Client: Strata Homes				Depth 1.25				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	J,K&T		0.05			MADE GROUND: Grey and black GRAVEL of road planings. (HARDCORE) MADE GROUND: Black sandy angular COBBLES of brick with fragments of wood, metal and old wiring. (BRICKFILL)		
				1.10			Spalling within made ground.		
				1.25			MADE GROUND: Strong grey CONCRETE. (CONCRETE) Couldn't excavate further due to concrete slab, at least 0.15m thick. End of pit at 1.25 m		
1 2 3 4 5 1 2 3 4 5									
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit were unstable between ground level and 1.1m depth during excavation.									



LITHOS CONSULTING				Trial Pit Log			Trialpit No TP427 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418301.24 - 424926.77		Date 11/01/2019
Location: Cleckheaton				Dimensions (m): 3.3		Scale 1:25		Logged JEJ
Client: Strata Homes				Depth 3.50				
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T	HVP=10 HVP=15	0.30			MADE GROUND: Orangish brown and light brown gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE MADE GROUND)	
	0.50	J,K&T			MADE GROUND: Pinkish red ashy gravelly SAND. Gravel is angular fine to coarse of clinker and brick. (ASH & CLINKER)			
	0.80				MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker and brick. (ASH & CLINKER)			
	1.20	B		1.30			Firm orangish brown sandy CLAY. (COHESIVE ALLUVIUM)	
					No blocks for vane between 1.3m and 2.0m.			
					Spalling of trial pit walls, 1.8m to 2.6m.			
				2.00			Soft orangish brown mottled grey CLAY. (COHESIVE ALLUVIUM)	
					Groundwater inflow at 2.3m depth.			
		2.50		D				Weak grey thinly bedded MUDSTONE. Recovered as clayey angular gravel. (COAL MEASURES)
			Groundwater inflow at 3.3m depth.					
			End of pit at 3.50 m					
	3.40	T		3.30				
				3.50				

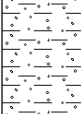
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as an inflow at 2.3m and 3.3m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit were unstable between 1.8m and 2.6m depth during excavation.

				Trial Pit Log			Trialpit No TT428 N Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: - Level:		Date 11/01/2019	
Location: Cleckheaton				Dimensions (m):		5.2		Scale 1:25	
Client: Micheal Steel & Co				Depth 2.50				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	1.40	J,K&T		1.20			MADE GROUND: Black sandy CLAY with medium boulder content. Boulders are angular of concrete. (COHESIVE MADE GROUND)		
							MADE GROUND: Black clayey angular fine to coarse GRAVEL of mudstone and sandstone with wood and metal fragments. (GRANULAR MADE GROUND) <i>Major inflow of black groundwater with oily sheen and strong hydrocarbon odour.</i>		
				2.50			End of pit at 2.50 m		
1 2 3 4 5									
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as a major inflow at 1.2m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit remained stable during excavation.									



				Trial Pit Log			Trialpit No TT428 S Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: - Level:		Date 11/01/2019	
Location: Cleckheaton				Dimensions (m):		5.2 		Scale 1:25	
Client: Micheal Steel & Co				Depth 2.80		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T					MADE GROUND: Black sandy CLAY with medium boulder content. Boulders are angular of brick, concrete and paving slab with fragments of plastic and glass. (COHESIVE MADE GROUND)	
	0.40	J,K&T		0.30 0.35 0.50			MADE GROUND: Pinkish red ashy gravelly SAND. Gravel is angular fine of clinker. (ASH & CLINKER)	
	0.80	D					MADE GROUND: Black sandy CLAY with rootlets. (RELICT TOPSOIL) Firm orangish brown mottled grey gravelly CLAY. Gravel is angular fine to coarse of mudstone. (COHESIVE ALLUVIUM)	1
			HVP=70				Slight groundwater seepage in base of pit at 1.2m whilst sampling with oily sheen.	
	1.80	J&K		1.80			Trial pit complete at 2.8m and trenched out, made ground encountered to 1.9m, 3.6m from S trial pit wall, 5m from S trial pit wall made ground to >2.5m depth. Soft orangish brown CLAY. (COHESIVE ALLUVIUM) Spalling of trial pit walls 1.8m to 2.2m depth.	2
			HVP=30				As trial pit trenched out, black clay and gravel encountered with subsequent inflow of black groundwater with oily sheen and strong hydrocarbon odour.	
				2.80			Trial pit terminated at 2.8m due to constant inflow of black groundwater. End of pit at 2.80 m	3
								4
								5

Remarks: Stability:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as an inflow at 2.0m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in. 1. The sides of the trial pit were unstable between 1.8m and 2.2m depth during excavation.	
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				Trial Pit Log			Trialpit No TP429 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418298.76 - 424960.39 Level:		Date 11/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 3.20		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T		0.30			MADE GROUND: Brown sandy CLAY with low cobble content. Cobbles are angular of brick, sandstone, concrete and fragments of wood and glass with many rootlets. (COHESIVE MADE GROUND)	1
	0.50	J,K&T					MADE GROUND: Black ashy slightly gravelly SAND. Gravel is angular fine to coarse of clinker. (ASH & CLINKER)	
			HVP=40	1.70			MADE GROUND: Firm bluish grey mottled orangish brown gravelly CLAY. Gravel is angular fine to medium of mixed lithology. (COHESIVE MADE GROUND)	2
	3.00	J&K		2.80				MADE GROUND: Black gravelly clayey SAND. Gravel is angular to subrounded fine to medium of mixed lithology. (GRANULAR MADE GROUND)
				3.20		Black groundwater inflow at 2.8m with strong hydrocarbon odour and oily sheen. Trial pit terminated at 3.2m due to constant inflow of black groundwater.		4
						End of pit at 3.20 m		5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered as an inflow at 2.8m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit remained stable during excavation.

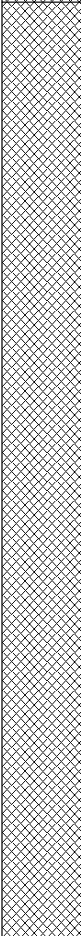


LITHOS CONSULTING				Trial Pit Log			Trialpit No TP430 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418371.05 - 425007.10 Level:		Date 11/01/2019
Location: Cleckheaton				Dimensions (m):		3.6		Scale 1:25
Client: Strata Homes				Depth 3.20		0.6		Logged JEJ
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	J,K&T		0.30			MADE GROUND: Black angular fine to coarse GRAVEL of road planings. (HARDCORE)	
				0.90			MADE GROUND: Black ashy SAND with medium cobble content. Cobbles are angular of brick. (GRANULAR MADE GROUND)	
	1.10	J&K		1.50			MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to medium of clinker. (ASH & CLINKER) <i>Strong hydrocarbon odour between 0.9m and 1.5m depth.</i>	
				2.00			MADE GROUND: Grey gravelly CLAY. Gravel is angular fine to medium of mudstone and sandstone. (COHESIVE MADE GROUND)	
	2.40	J&K		2.90			MADE GROUND: Black angular fine to medium GRAVEL of mixed lithology. (GRANULAR MADE GROUND) <i>Strong hydrocarbon odour between 2.0m and 2.9m depth.</i> <i>Brick wall in S trial pit face from 0.3m to 2.0m depth.</i>	
				3.00			Firm orangish brown sandy slightly gravelly CLAY. Gravel is angular fine to medium of sandstone. (COHESIVE RESIDUAL SOIL)	
				3.20			<i>Trial pit terminated at 3.2m due to constant spalling of made ground.</i> End of pit at 3.20 m	

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit were unstable between ground level and 2.9m depth during excavation.



				Trial Pit Log			Trialpit No TT431 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: - Level:		Date 11/01/2019	
Location: Cleckheaton				Dimensions (m):		8.2		Scale 1:25	
Client: Micheal Steel & Co				Depth 3.60				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	J&T		0.30			MADE GROUND: Brown gravelly slightly clayey SAND with low cobble content. Gravel and cobbles are angular of brick with glass, plastic and tile fragments. (GRANULAR MADE GROUND)		
	0.50	J&T					MADE GROUND: Orangish brown and reddish brown ashy gravelly SAND. Gravel is angular fine to medium of clinker and brick. (ASH & CLINKER)		
	1.80	B							
	3.50	D		3.40			Trial pit excavated to 3.6m then trenched out to identify high wall. However still in made ground at 3.4m at 8.2m from E trial pit face.		
				3.60			Firm orangish brown gravelly CLAY. Gravel is angular fine of sandstone. (COHESIVE RESIDUAL SOIL) End of pit at 3.60 m		
1 2 3 4 5									
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit remained stable during excavation.									



				Trial Pit Log			Trialpit No TP432 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418356.09 - 425112.63 Level:		Date 11/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 2.60		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J&T		0.15		 MADE GROUND: Strong grey CONCRETE with 2mm reinforcements. (CONCRETE)	 MADE GROUND: Orangish brown sandy angular fine to coarse GRAVEL of sandstone. (GRANULAR MADE GROUND)	
	0.60	J&T		0.30				 MADE GROUND: Black ashy sandy BOULDERS with medium cobble content. Cobbles and boulders are angular of sandstone, concrete and brick. (BRICKFILL)
				2.60				Excavation through old cellar. Brick wall in R trial pit face with doorway at 1.3m depth. Brick wall in N trial pit face to at least 2.6m depth. Trial pit terminated due to constant spalling of made ground. End of pit at 2.60 m

Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.	
Stability:	1. The sides of the trial pit were unstable between 0.15m and 2.6m depth during excavation.	