



José Ferreira
BDW South Wales
Oak House
Village Way
Tongwynlais
Cardiff
CF15 7NE

Date: 10th February 2020
Our ref: 200210_0607_jf_jf
Your ref:

Dear José,

Re: Supplementary investigation and assessment of areas of potential made ground – Lower Lane, Coleford.

Following instruction by BDW South Wales, this report presents the results of a supplementary investigation and risk assessment to evaluate the significance to human health of shallow reworked topsoil/made ground at the proposed residential development known as Lower Lane, Coleford – ‘the site’. A site location plan is included in Appendix A.

Background and Context

The site occupies a roughly rectangular shaped land parcel spread across 5N° interconnected agricultural fields of an area of approximately 10.85 hectares (ha). Mature hedgerows were noted to form boundaries between the separate fields. The site extends approximately 150m from north to south and 700m east to west.

Information presented to T&P Regeneration Ltd (T&P) indicates that the proposed development is intended to comprise the construction of approximately 180N° traditional two storey residential dwellings with associated areas of communal and private soft landscaping with hard landscaped access and parking.

Previous ground investigations undertaken by Opus International Consultants (Opus) in 2015¹, revealed the presence of shallow made ground/ reworked topsoil within 4N° trial holes completed as part of their investigation. Chemical analysis was only completed on samples recovered from TP12 which revealed elevated arsenic concentrations above human health assessment criteria. Samples from TP6, TP8 and TP10 where reworked topsoil was identified were not chemically analysed.

¹ Consolidated Geo-Environmental Report (Phase 1 and 2) Ref: J-D1670.00_R4_JO May 2015

T&P Regeneration Ltd

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T&P Regeneration completed a supplementary investigation² in the vicinity of TP12 that included bio-accessibility testing and detailed qualitative risk assessment (DQRA). The supplementary assessment determined the made ground/reworked topsoil in the area of TP12 does not present an unacceptable risk to human health and further remedial work is unnecessary.

The purpose of this assessment has been to examine the soils previously identified by Opus within TP6, TP8 and TP10 to ensure they are fit for the intended residential setting and do not pose potential risks to human health receptors.

Summary of Works

A supplementary intrusive ground investigation was undertaken on the 16th January 2020, which comprised the excavation of 12N^o hand excavated trial pits to approximate depths of 0.5mbgl and the recovery of soil samples. The trial pits were located adjacent to the co-ordinates upon the original Opus trial pits logs.

Representative soil samples were submitted to the UKAS accredited Environmental Laboratory for analysis. A copy of chemical results is included within Appendix C.

Table 1 Summary of Chemical Testing

Test type	Notes	Quantity
<i>Soils</i>		
Arsenic, Boron, Cadmium, Chromium, Lead, Mercury, Nickel, Copper, Zinc, Selenium, Phenols and US EPA 16 Polycyclic Aromatic Hydrocarbons.	-	3 soils

Summary of Ground Conditions

Reworked topsoil was encountered from surface level within the excavated pits. HD301 was excavated adjacent to TP10 and found the topsoil to comprise dark brown silty sand with occasional gravel of pottery to a depth of 0.25m, below which natural subsoils were considered to have been encountered. HD301A – HD301C also excavated in the area of TP10 recorded similar reworking of the topsoil.

HD302 excavated adjacent to TP8 recorded reworking of the topsoil and noted the inclusion of pottery fragments. Topsoil was found to be broadly 0.40m in thickness in this area and underlain by natural ground.

The topsoil in the area of TP06 was noted to include carbonaceous traces as well as occasional pottery fragments. The reworked topsoil in this area was found to be approximately 0.35m in thickness. The underlying natural ground was noted to comprise orangish brown silty sand. The exploratory hole logs are included within Appendix B. Groundwater was not encountered within the excavations.

² T&P Regeneration Ltd Ref: 181218_COL2193_jf_mb December 2018

Human Health Risk Assessment

Introduction

A human health generic quantitative risk assessment (GQRA) has been undertaken in accordance with the UK regulatory framework and current guidance on assessment of risks presented by land affected by contamination³.

Screening assessment

For the purposes of investigation and assessment a site can be divided into zones based on historical uses or proposed end use. These zones can be further divided into averaging areas, which can be used to assess different soil types or different potential exposure pathways etc. for the purposes of risk evaluation. Each averaging area can be considered independently for human health exposure assessment.

Based upon the discrete locations of the reworked topsoil each area will be evaluated separately and against the adopted screening level⁴ for a 'residential with consumption of home-grown produce' end use.

A review of soil data has not identified any contaminants soil concentrations to be elevated against adopted human health screening levels for a 'residential with homegrown produce' end use.

In consideration of the outcome of the generic quantitative risk assessment, it is concluded that there are no unacceptable risks presented to human health associated with on-site soils via direct contact/ingestion/inhalation pathways.

Conclusions

On the basis of the above, it is concluded that the reworked topsoil does not present potentially unacceptable risks to human health. No remedial action is therefore considered necessary and the soils are considered to be chemically suitable for the intended residential end use.

It is however recommended that vigilance should be employed by the groundworks contractor during the future site works in the event that unexpected/significant made ground is encountered. In this scenario advice from a specialist geoenvironmental consultancy should be sought.

³ *Environmental Protection Act 1990.*
Contaminated Land Statutory Guidance (April 2012).
CLR11 – Model procedures for the management of land contamination. DEFRA/Environment Agency. 2004.

⁴ *The LQM/CIEH S4ULs for Human Health Risk Assessment. 2015.*
SP1010 – Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination. CL:AIRE. 2013.

Should you have any queries or comments with respect to the above, then please do not hesitate to contact us. Otherwise, we recommend that this letter report be sent to the local planning authority for review and approval.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'John Flannery'.

John Flannery

On behalf of ***T&P Regeneration Ltd***

Appendix A:	Drawings
Appendix B:	Trial hole logs
Appendix C:	Laboratory test results.

T&P Regeneration Ltd

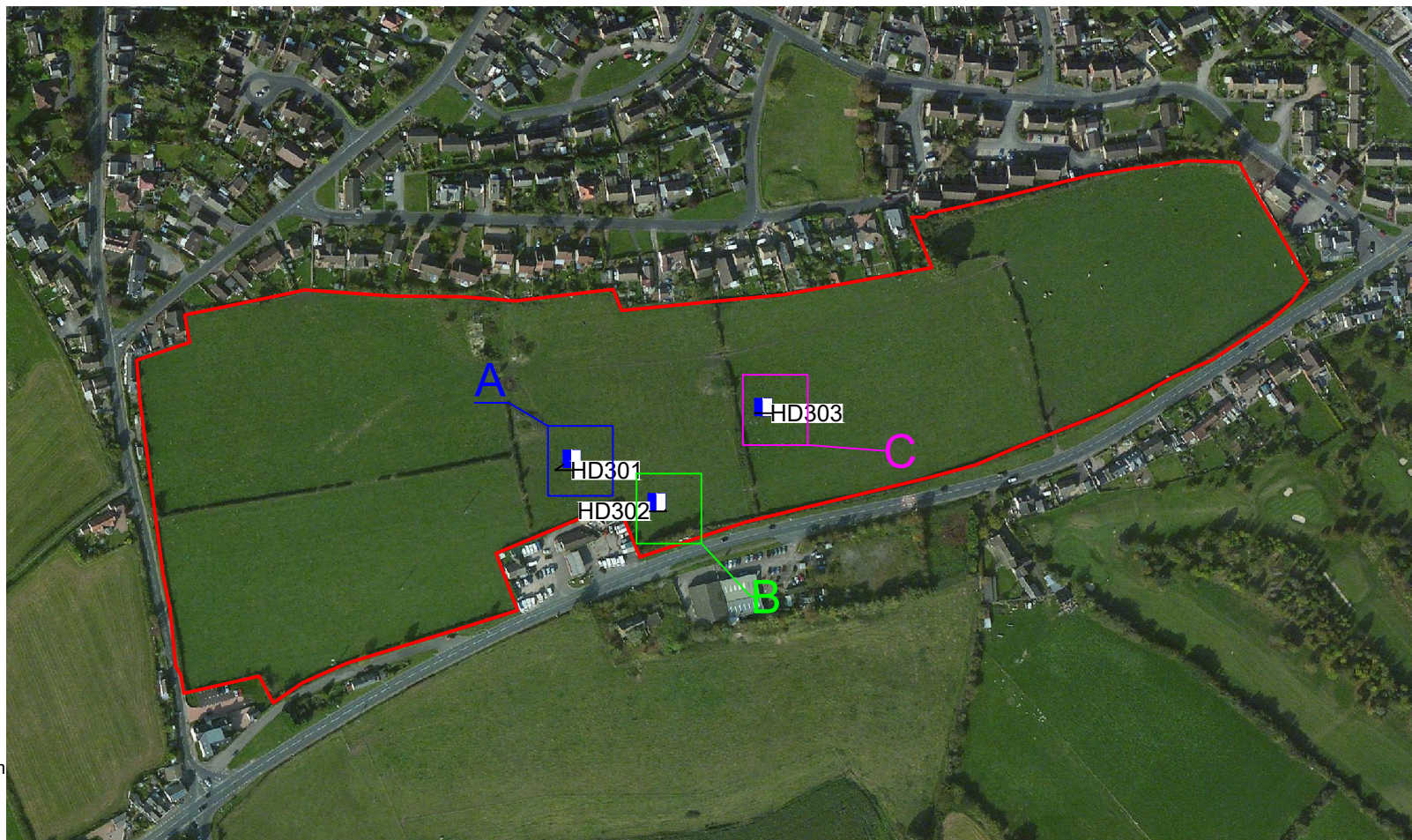
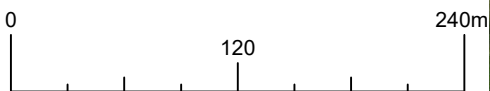
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APPENDIX A Drawings

T&P Regeneration Ltd

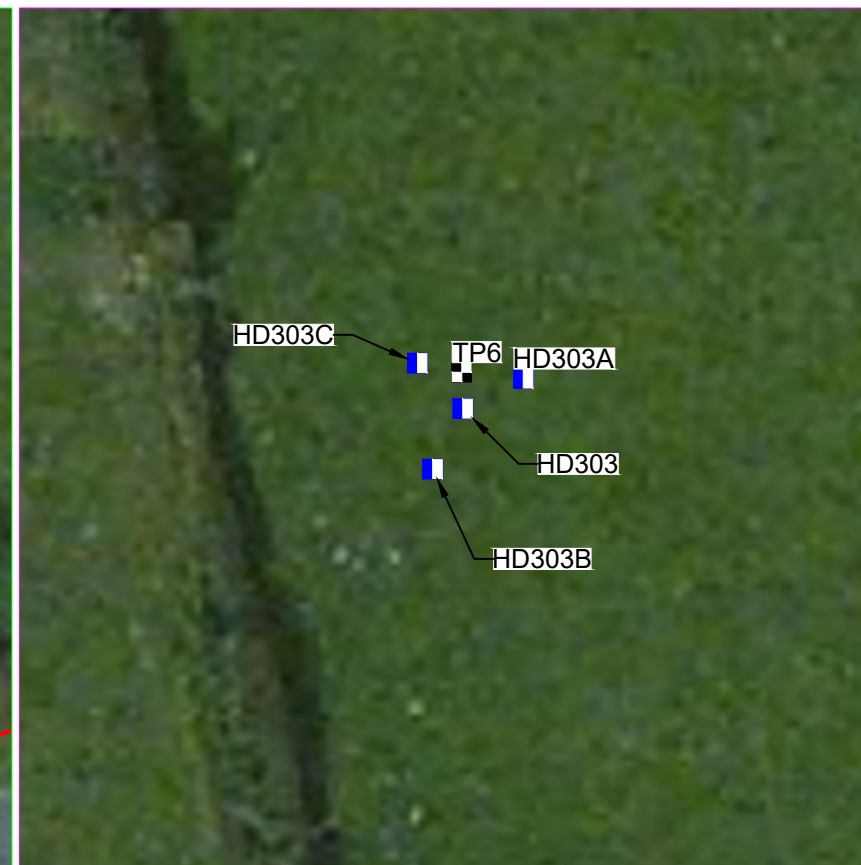
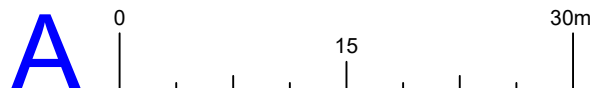
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Key:

- OPUS Trial Pit Locations (TP6, TP8, TP10)
- Hand Dug Pit Locations (HD301 - HD303)



Rev.	Date	Amendment	Drawn	Checked

Base map source: Autodesk License



**Unit 4 Brunel Lock Development,
Smeaton Road, Bristol, BS1 6SE**
Tel: 0117 927 7756

Project Name
Lower Lane, Coleford

Drawing Title
Supplementary Exploratory Hole
Location Plan
(Possible Made Ground)

Client
BDW South Wales




Drawn by AW	Checked by JF	Date 23/01/20	Scale SBAR@A3
Drawing No. MD-500-01-016			Rev. -

APPENDIX B Exploratory hole logs

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<div>T&P Regen</div> <div>www.tandpregeneration.co.uk</div>	Contract Name: Berry Hill, Coleford		Client: BDW South Wales			Trial Pit ID: HD301		
	Contract Number: CS-J-0635	Date Started: 16/01/2020	Logged By: MC	Checked By: JF	Status: DRAFT	Sheet 1 of 1		
	Easting: 357470.71	Northing: 212117.01	Ground Level: 226.81mOD	Plant Used: Hand tools	Print Date: 10/02/2020	Scale: 1:25		
Trial Pit Log		Weather: Raining		Termination: Scheduled depth reached		Stability:		
Samples & In Situ Testing			Strata Details				Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		
0.15 - 0.25	D1		226.56	0.25		Dark brown slightly gravelly silty SAND. Gravel is angular to subrounded fine to medium of sandstone and occasional pottery. (REWORKED TOPSOIL)		
			226.31	0.50		Orangish brown slightly gravelly SAND. Gravel is subangular fine to medium of sandstone. (COLEFORD MEMBER)		
			End of Trial Pit at 0.50m					
							1	
							2	
							3	
							4	
							5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water								
Remarks: Excavated adjacent to opus TP10.					Dimensions:			
					Length: 0.20m		Orientation: °	
					Width: 0.20m			
					Groundwater Details			
					Depth encountered (m)		Remarks	
T&P Regeneration TP Template Issue Number: 1 Issue Date: June 2016								

<div><div>T&P</div><div>Regen</div><div>www.tandpregeneration.co.uk</div></div>	Contract Name: Berry Hill, Coleford			Client: BDW South Wales			Trial Pit ID: HD301A				
	Contract Number: CS-J-0635		Date Started: 16/01/2020		Logged By: MC		Checked By: JF		Status: DRAFT		
	Easting: 357470.29		Northing: 212120.79		Ground Level: 227.02mOD		Plant Used: Hand tools		Print Date: 10/02/2020		
Trial Pit Log								Sheet 1 of 1		Scale: 1:25	
Weather: Raining				Termination: Scheduled depth reached				Stability:			
Samples & In Situ Testing				Strata Details						Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description					
0.15 - 0.25	D1			(0.40)		Dark brown slightly gravelly silty SAND. Gravel is subangular to subrounded fine to medium of sandstone. (TOPSOIL)					
			226.62	0.40		Orangish brown slightly gravelly SAND. Gravel is subangular fine to medium of sandstone. (COLEFORD MEMBER)					
			226.47	0.55	End of Trial Pit at 0.55m						
										1	
										2	
										3	
										4	
										5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water											
Remarks:						Dimensions:					
						Length: 0.20m		Orientation: °			
						Width: 0.20m					
						Groundwater Details					
						Depth encountered (m)		Remarks			
T&P Regeneration TP Template						Issue Number: 1		Issue Date: June 2016			



Berry Hill, Coleford

BDW South Wales

HD301B

CS-J-0635

16/01/2020

MC

JF

DRAFT

Sheet 1 of 1

Trial Pit Log

357467.37

212115.16

226.93mOD

Hand tools

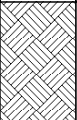
10/02/2020

1:25

Weather: Raining

Termination: Scheduled depth reached

Stability:	
------------	--

Samples & In Situ Testing			Strata Details				Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		
0.15 - 0.25	D1			(0.40)		Dark brown slightly gravelly silty SAND. Gravel is subangular to subrounded fine to medium of sandstone and occasional pottery. (REWORKED TOPSOIL)	<div><div></div><div>1</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><d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Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water

Remarks:

Dimensions:

Length: 0.20m

Width: 0.20m

Orientation: °

Groundwater Details

Depth encountered (m)



Remarks




T&P Regeneration TP Template

Issue Number: 1




Issue Date: June 2016

<div><div>T&P</div><div>Regen</div><div>www.tandpregeneration.co.uk</div></div>	Contract Name: Berry Hill, Coleford			Client: BDW South Wales			Trial Pit ID: HD301C				
	Contract Number: CS-J-0635		Date Started: 16/01/2020		Logged By: MC		Checked By: JF		Status: DRAFT		
	Easting: 357473.90		Northing: 212114.84		Ground Level: 226.74mOD		Plant Used: Hand tools		Print Date: 10/02/2020		
Trial Pit Log								Sheet 1 of 1		Scale: 1:25	
Weather: Raining				Termination: Scheduled depth reached				Stability:			
Samples & In Situ Testing			Strata Details							Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description					
0.15 - 0.25	D1			(0.40)		Dark brown slightly gravelly silty SAND. Gravel is subangular to subrounded fine to medium of sandstone. (TOPSOIL)					
			226.34	0.40		Orangish brown slightly gravelly SAND. Gravel is subangular fine to medium of sandstone. (COLEFORD MEMBER)					
			226.14	0.60	End of Trial Pit at 0.60m						
										1	
										2	
										3	
										4	
										5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water											
Remarks:						Dimensions:					
						Length: 0.20m		Orientation: °			
						Width: 0.20m					
						Groundwater Details					
						Depth encountered (m)		Remarks			
T&P Regeneration TP Template						Issue Number: 1		Issue Date: June 2016			

<div><div>T&P</div><div>Regen</div><div>www.tandpregeneration.co.uk</div></div>	Contract Name: Berry Hill, Coleford			Client: BDW South Wales			Trial Pit ID: HD302				
	Contract Number: CS-J-0635		Date Started: 16/01/2020		Logged By: MC		Checked By: JF		Status: DRAFT		
	Easting: 357522.04		Northing: 212091.14		Ground Level: 224.64mOD		Plant Used: Hand tools		Print Date: 10/02/2020		
Trial Pit Log								Scale: 1:25			
Weather: Raining				Termination: Scheduled depth reached				Stability:			
Samples & In Situ Testing			Strata Details						Water	Backfill	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description					
0.15 - 0.25	D1			(0.40)		Dark brown gravelly silty SAND. Gravel is subangular to subrounded fine to medium of sandstone with occasional pottery/ ceramics. (REWORKED TOPSOIL)					
			224.24	0.40		Brown mottled orangish brown slightly silty gravelly SAND. Gravel is subangular fine to coarse of sandstone. (COLEFORD MEMBER)					
			224.09	0.55		End of Trial Pit at 0.55m					
								1			
								2			
								3			
								4			
								5			
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water											
Remarks: Excavated adjacent to opus TP08.						Dimensions:					
						Length: 0.20m		<div>Orientation: ° ←</div>			
						Width: 0.20m					
						Groundwater Details					
						Depth encountered (m)		Remarks			
T&P Regeneration TP Template Issue Number: 1 Issue Date: June 2016											

<div><div>T&P</div><div>Regen</div><div>www.tandpregeneration.co.uk</div></div>		Contract Name: Berry Hill, Coleford		Client: BDW South Wales			Trial Pit ID: HD302A	
		Contract Number: CS-J-0635	Date Started: 16/01/2020	Logged By: MC	Checked By: JF	Status: DRAFT	Sheet 1 of 1	
Trial Pit Log		Easting: 357518.53	Northing: 212091.26	Ground Level: 224.80mOD	Plant Used: Hand tools	Print Date: 10/02/2020	Scale: 1:25	
		Weather: Raining			Termination: Scheduled depth reached		Stability:	
Samples & In Situ Testing			Strata Details				Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		
0.15 - 0.25	D1			(0.40)		Dark brown slightly gravelly silty SAND. Gravel is subangular to subrounded fine to medium of sandstone with occasional pottery. (REWORKED TOPSOIL)		
			224.40	0.40		Brown mottled orangish brown slightly silty gravelly SAND. Gravel is subangular fine to coarse of sandstone. (COLEFORD MEMBER)		
			224.25	0.55		End of Trial Pit at 0.55m		
							1	
							2	
							3	
							4	
							5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water								
Remarks:						Dimensions:		
						Length: 0.20m		
						Width: 0.20m		
						Orientation: °		
						Groundwater Details		
						Depth encountered (m)	Remarks	
T&P Regeneration TP Template Issue Number: 1 Issue Date: June 2016								

<div><div>T&P</div><div>Regen</div><div>www.tandpregeneration.co.uk</div></div>	Contract Name: Berry Hill, Coleford			Client: BDW South Wales			Trial Pit ID: HD302B				
	Contract Number: CS-J-0635		Date Started: 16/01/2020		Logged By: MC		Checked By: JF		Status: DRAFT		
	Easting: 357522.56		Northing: 212086.90		Ground Level: 224.44mOD		Plant Used: Hand tools		Print Date: 10/02/2020		
Trial Pit Log								Sheet 1 of 1		Scale: 1:25	
Weather: Raining				Termination: Scheduled depth reached				Stability:			
Samples & In Situ Testing			Strata Details							Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description					
0.15 - 0.25	D1			(0.40)		Soft dark brown gravelly CLAY. Gravel is subangular to subrounded fine to medium of sandstone. (TOPSOIL)					
			224.04	0.40		Brown mottled orangish brown slightly silty gravelly SAND. Gravel is subangular fine to coarse of sandstone. (COLEFORD MEMBER)					
			223.89	0.55		End of Trial Pit at 0.55m					
										1	
										2	
										3	
										4	
										5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water											
Remarks:						Dimensions:					
						Length: 0.20m		Orientation: °			
						Width: 0.20m					
						Groundwater Details					
						Depth encountered (m)		Remarks			
T&P Regeneration TP Template Issue Number: 1 Issue Date: June 2016											

<div><div>T&P</div><div>Regen</div><div>www.tandpregeneration.co.uk</div></div>	Contract Name: Berry Hill, Coleford			Client: BDW South Wales			Trial Pit ID: HD302C				
	Contract Number: CS-J-0635		Date Started: 16/01/2020		Logged By: MC		Checked By: JF		Status: DRAFT		
	Easting: 357525.95		Northing: 212090.03		Ground Level: 224.52mOD		Plant Used: Hand tools		Print Date: 10/02/2020		
Trial Pit Log								Sheet 1 of 1		Scale: 1:25	
Weather: Raining				Termination: Scheduled depth reached				Stability:			
Samples & In Situ Testing			Strata Details							Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description					
0.15 - 0.25	D1			(0.40)		Dark brown gravelly silty SAND. Gravel is subangular to subrounded fine to medium of sandstone. (TOPSOIL)					
			224.12	0.40		Brown mottled orangish brown slightly silty gravelly SAND. Gravel is subangular fine to coarse of sandstone. (COLEFORD MEMBER)					
			223.97	0.55		End of Trial Pit at 0.55m					
										1	
										2	
										3	
										4	
										5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water											
Remarks:						Dimensions:					
						Length: 0.20m		Orientation: °			
						Width: 0.20m					
						Groundwater Details					
						Depth encountered (m)		Remarks			
T&P Regeneration TP Template						Issue Number: 1		Issue Date: June 2016			

<div><div>T&P</div><div>Regen</div><div>www.tandpregeneration.co.uk</div></div>	Contract Name: Berry Hill, Coleford			Client: BDW South Wales			Trial Pit ID: HD303				
	Contract Number: CS-J-0635		Date Started: 16/01/2020		Logged By: MC		Checked By: JF		Status: DRAFT		
	Easting: 357585.63		Northing: 212148.19		Ground Level: 224.42mOD		Plant Used: Hand tools		Print Date: 10/02/2020		
Trial Pit Log								Sheet 1 of 1		Scale: 1:25	
Weather: Raining				Termination: Scheduled depth reached				Stability:			
Samples & In Situ Testing			Strata Details						Water	Backfill	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description					
0.15 - 0.25	D1			(0.35)		Dark brown slightly gravelly to gravelly silty SAND with black carbonaceous traces. Gravel is subangular to subrounded firm to medium of sandstone and occasional pottery. (REWORKED TOPSOIL)					
			224.07	0.35							Orangish brown silty SAND with occasional gravel. Gravel is subrounded fine to coarse of sandstone. (COLEFORD MEMBER)
			223.92	0.50							
						End of Trial Pit at 0.50m					
										1	
										2	
										3	
										4	
										5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water											
Remarks: Excavated adjacent to opus TP06.						Dimensions:					
						Length: 0.20m			Orientation: °		
						Width: 0.20m					
						Groundwater Details					
						Depth encountered (m)			Remarks		
T&P Regeneration TP Template						Issue Number: 1			Issue Date: June 2016		

<div><div>T&P</div><div>Regen</div><div>www.tandpregeneration.co.uk</div></div>		Contract Name: Berry Hill, Coleford		Client: BDW South Wales			Trial Pit ID: HD303A	
		Contract Number: CS-J-0635	Date Started: 16/01/2020	Logged By: MC	Checked By: JF	Status: DRAFT	Sheet 1 of 1	
Trial Pit Log		Easting: 357589.58	Northing: 212149.50	Ground Level: 224.41mOD	Plant Used: Hand tools	Print Date: 10/02/2020	Scale: 1:25	
		Weather: Raining			Termination: Scheduled depth reached		Stability:	
Samples & In Situ Testing			Strata Details				Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		
0.15 - 0.25	D1			(0.35)		Dark brown slightly gravelly to gravelly silty SAND. Gravel is subangular to subrounded firm to medium of sandstone. (TOPSOIL)		
			224.06	0.35		Orangish brown silty SAND with occasional gravel. Gravel is subrounded fine to coarse of sandstone. (COLEFORD MEMBER)		
			223.91	0.50		End of Trial Pit at 0.50m		
							1	
							2	
							3	
							4	
							5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water								
Remarks:						Dimensions:		
						Length: 0.20m		
						Width: 0.20m		
						Orientation: °		
						Groundwater Details		
						Depth encountered (m)	Remarks	
T&P Regeneration TP Template Issue Number: 1 Issue Date: June 2016								



Berry Hill, Coleford

BDW South Wales

HD303B

CS-J-0635

16/01/2020

MC

JF

DRAFT

Sheet 1 of 1

Trial Pit Log

357583.79

212144.40

224.35mOD

Hand tools

10/02/2020

1:25

Weather: Raining

Termination: Scheduled depth reached

Stability:

Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water

Remarks:

Dimensions:

Length: 0.20m

Width: 0.20m

Orientation: °

Groundwater Details





Depth encountered (m)

Remarks

T&P Regeneration TP Template

Issue Number: 1

Issue Date: June 2016

<div> www.tandpregeneration.co.uk</div>	Contract Name: Berry Hill, Coleford		Client: BDW South Wales			Trial Pit ID: HD303C		
	Contract Number: CS-J-0635	Date Started: 16/01/2020	Logged By: MC	Checked By: JF	Status: DRAFT	Sheet 1 of 1		
	Easting: 357582.60	Northing: 212151.47	Ground Level: 224.60mOD	Plant Used: Hand tools	Print Date: 10/02/2020	Scale: 1:25		
Trial Pit Log								
Weather: Raining		Termination: Scheduled depth reached			Stability:			
Samples & In Situ Testing			Strata Details				Water	Backfill
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		
0.15 - 0.25	D1			(0.35)		Dark brown slightly gravelly to gravelly silty SAND. Gravel is subangular to subrounded firm to medium of sandstone. (TOPSOIL)		
			224.25	0.35		Orangish brown silty SAND with occasional gravel. Gravel is subrounded fine to coarse of sandstone. (COLEFORD MEMBER)		
			224.10	0.50		End of Trial Pit at 0.50m		
							1	
							2	
							3	
							4	
							5	
Sample Key: B = Bulk Disturbed D = Small Disturbed U = Undisturbed Open-Drive W = Water G = Gas ES = Environmental Soil EW = Environmental Water								
Remarks:						Dimensions:		
						Length: 0.20m		
						Width: 0.20m		
						Orientation: °		
						Groundwater Details		
						Depth encountered (m)	Remarks	
						T&P Regeneration TP Template Issue Number: 1 Issue Date: June 2016		

APPENDIX C

Laboratory analysis results

T&P Regeneration Ltd

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 20-26615

Issue: 1

Date of Issue: 27/01/2020

Contact: John Flannery

Customer Details: T & P Regeneration Ltd (Smeaton Road)
Unit 4
Brunel Lock Development
Bristol
BS1 6SE

Quotation No: Q15-00390

Order No: 6316-CS-J-0635

Customer Reference: CS-J-0635

Date Received: 20/01/2020

Date Approved: 27/01/2020

Details: Coleford

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 20-26615, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
194752	WS303 1.50 - 1.70	16/01/2020	20/01/2020		
194753	WS303 2.50 - 2.70	16/01/2020	20/01/2020	Loamy sand	
194754	WS304 1.30 - 1.50	16/01/2020	20/01/2020	Sand	
194755	WS305 1.80 - 2.00	16/01/2020	20/01/2020		
194756	WS305 2.40 - 2.60	16/01/2020	20/01/2020	Sand	
194757	WS306 0.40 - 0.60	16/01/2020	20/01/2020		
194758	WS306 1.60 - 1.80	16/01/2020	20/01/2020		
194759	HD301 0.15 - 0.25	16/01/2020	20/01/2020	Silty loam	
194760	HD301A 0.15 - 0.25	16/01/2020	20/01/2020		
194761	HD301B 0.15 - 0.40	16/01/2020	20/01/2020		
194762	HD301D 0.15 - 0.40	16/01/2020	20/01/2020		
194763	HD302 0.15 - 0.40	16/01/2020	20/01/2020	Silty loam	
194764	HD302A 0.15 - 0.40	16/01/2020	20/01/2020		
194765	HD302B 0.15 - 0.40	16/01/2020	20/01/2020		
194766	HD302C 0.15 - 0.40	16/01/2020	20/01/2020		
194767	HD303 0.15 - 0.35	16/01/2020	20/01/2020	Silty loam	
194768	HD303A 0.15 - 0.35	16/01/2020	20/01/2020		
194769	HD303B 0.15 - 0.35	16/01/2020	20/01/2020		
194770	HD303C 0.15 - 0.35	16/01/2020	20/01/2020		

Results Summary

Report No.: 20-26615, issue number 1

ELAB Reference	194753	194754	194756	194759	194763	194767
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS303	WS304	WS305	HD301	HD302	HD303
Sample Depth (m)	2.50 - 2.70	1.30 - 1.50	2.40 - 2.60	0.15 - 0.25	0.15 - 0.40	0.15 - 0.35
Sampling Date	16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020

Determinand	Codes	Units	LOD						
Soil sample preparation parameters									
Material removed	N	%	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	n/t	n/t	n/t	None	None	None
Metals									
Arsenic	M	mg/kg	1	n/t	n/t	n/t	24.4	33.0	29.7
Beryllium	U	mg/kg	1	n/t	n/t	n/t	< 1.0	< 1.0	< 1.0
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	n/t	n/t	n/t	14.9	14.2	20.8
Copper	M	mg/kg	5	n/t	n/t	n/t	23.3	24.5	20.9
Lead	M	mg/kg	5	n/t	n/t	n/t	44.3	44.9	35.6
Mercury	M	mg/kg	0.5	n/t	n/t	n/t	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	n/t	n/t	n/t	18.6	17.1	17.8
Selenium	M	mg/kg	1	n/t	n/t	n/t	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	5	n/t	n/t	n/t	17.7	18.6	28.7
Zinc	M	mg/kg	5	n/t	n/t	n/t	83.7	65.5	56.6
Anions									
Water Soluble Sulphate	M	g/l	0.02	n/t	n/t	n/t	< 0.02	< 0.02	< 0.02
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t	< 0.8	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	n/t	n/t	n/t	0.9	1.0	0.8
Miscellaneous									
pH	M	pH units	0.1	n/t	n/t	n/t	6.5	5.8	6.2
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	4.2	7.2	3.5
Phenols									
Phenol	M	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	n/t	n/t	n/t	< 5	< 5	< 5
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	< 0.4	< 0.4	< 0.4

Results Summary

Report No.: 20-26615, issue number 1

ELAB Reference				194753	194754	194756	194759	194763	194767
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS303	WS304	WS305	HD301	HD302	HD303
Sample Depth (m)				2.50 - 2.70	1.30 - 1.50	2.40 - 2.60	0.15 - 0.25	0.15 - 0.40	0.15 - 0.35
Sampling Date				16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020
Determinand	Codes	Units	LOD						
BTEX									
Benzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
Toluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
Ethylbenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
Xylenes	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
MTBE	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
TPH CWG									
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t

Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	21/01/2020	110	Colorimetry
pH	M	Air dried sample	23/01/2020	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	21/01/2020	118	ICPMS
Phenols in solids	M	As submitted sample	21/01/2020	121	HPLC
PAH (GC-FID)	M	As submitted sample	21/01/2020	133	GC-FID
Water soluble anions	M	Air dried sample	21/01/2020	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	22/01/2020	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	22/01/2020	181	GC-MS
BTEX in solids	N	As submitted sample	22/01/2020	181A	GC-MS
Water soluble boron	N	Air dried sample	21/01/2020	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	22/01/2020	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	21/01/2020	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	27/01/2020	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	21/01/2020	214	GC-FID

Tests marked N are not UKAS accredited

Report Information

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Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

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