British Geological Survey

BGS ID: 259462 : BGS Reference: SO00NE51/A
British National Grid (27700) : 306680,206590

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Record of Borehole LN1A

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 10
Method of penetration Air Flush.
Elevation AOD m Grid reference E N
Date started 27.10.75 Date completed 3.11.75

Borehole			Casing		
From	To	Bmm	From	To	Bmm

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water
	49.70	51.20	100	20		51			
	51.20	52.70	100	55		52			
	52.70	54.20	100	30		53			
	54.20	55.70	100	25		54			
	55.70	57.20	100	25		55			
	57.20	58.60	100	0		56			Damp
	58.60	59.30	90	50		57			
30/10	59.30	60.00	80	0		58			
						59			
						60			

Description SO 00 NE /51A

51.30 - 57.20m: grey, thinly laminated, poorly jointed, fresh SILTSTONE; strong, rare plants and listric surfaces, numerous sandy horizons.

57.20 - 57.30m: dark grey, weak SEATEARTH, listric surfaces, plenty.
57.30 - 58.40m: grey, well jointed, faintly weathered SILTSTONE moderately strong, with slickensiding, quartz and feldspar mineralisation, 4cms fault breccia at 58.40m: FAULT.

58.40 - 58.60m: grey, thinly laminated, unjointed, fresh, SILTY MUDSTONE moderately strong, broken at base; Non-marine bivalves.

58.60 - 59.90m: grey, thickly laminated, poorly jointed, fresh SILTSTONE, strong, sandy horizons.

Morning water levels

Date							
BH Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date November, 1975
Sir William Halcrow & Partners

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 259462 : BGS Reference: SO00NE51/A
British National Grid (27700) : 306680,206590

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Record of Borehole LN1A

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 10
Method of penetration Air Flush.
Elevation AOD m Grid reference E N
Date started 27.10.75 Date completed 3.11.75

Borehole			Casing		
From	To	8mm	From	To	8mm

So 00 NE /51A

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
	60.00	61.35	95	35		61	278.40			59.90 - 60.30m: grey, thinly bedded, well jointed SILTY MUDSTONE moderately strong, sphaerosiderite at 59.95m. Lingula at 60.15m (Amman Marine Band). 60.30 - 60.33m: grey to black, very soft, wet, sticky, coaly, sandy clayey SILT.
	61.35	62.85	50	0		62				
	62.85	64.35	100	0		63				60.33 - 64.75m: dark grey to black, unjointed, fresh SEATEARTH weak to moderately strong, listric surfaces, occasional silty and coaly horizons, rashings at 62.35m.
	64.35	65.65	100	0		64	274.4	LAs		64.75 - 65.00m: black, broken, jointed, fresh SHALE with COAL rashings, strong to moderately strong. 65.00 - 65.50m: black, unjointed, fresh COAL, weak, fair quality. Clay Seam (Amman Rider)
	65.65	67.20	95	40		65				65.50 - 67.2m: grey to brownish grey, unjointed, fresh, SEATEARTH, very weak becoming moderately strong, listric surfaces, planty, becoming silty.
	67.20	68.70	100	65		66				67.20 - 67.6m: grey, poorly jointed, thickly laminated, fresh,, SILTSTONE, moderately strong, becoming finer.
	68.70	70.20	100	50		67				67.60 - 70.2m: grey, poorly jointed, thickly to thinly laminated,fresh, SILTY MUDSTONE moderately strong, rare leaves.
						68				
						69				
						70	268.50			

Morning water levels

Date							
BH Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date November 1975
Sir William Halcrow & Partners

Sheet 7 of 8

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 259462 : BGS Reference: SO00NE51/A
British National Grid (27700) : 306680,206590

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 10
Method of penetration Air Flush
Elevation AOD m Grid reference E N
Date started 27.10.75 Date completed 3.11.75

Record of Borehole LN1A

Borehole			Casing		
From	To	8mm	From	To	8mm

SO 00 NE 151A

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
31/10	68.70	70.20	100	50		70				67.60 - 70.20m: grey, poorly jointed, thickly to thinly laminated, fresh, SILTY MUDSTONE moderately strong, rare leaves.
						71				BOREHOLE COMPLETED AT 70.20m

Morning water levels

Date							
BH Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date November 1975
Sir William Halcrow & Partners

Sheet 8 of 8

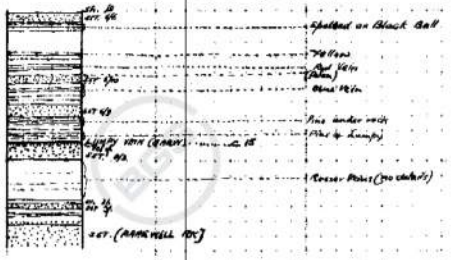
Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 259487 : BGS Reference: SO00NE72
British National Grid (27700) : 306300,207000

STRATA BETWEEN THE LOWER 4-FT. COAL AND FAREWELL ROCK AT DOWLAIS. SO 00 NE 72 063 070

231/34



Contact BGS: ngdc@bgs.ac.uk

Appendix E

GROUNDSURE REPORT

Public

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Goat Mill

Order Details

Date: 29/08/2024

Your ref: P104868UK001

Our Ref: WSP-PT5-U7G-NVJ-D4M

Site Details

Location: 306206 206882

Area: 14.75 ha

Authority: Merthyr Tudful - Merthyr Tydfil County Borough Council ↗



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Summary of findings p. 2 >

Aerial image p. 9 >

OS MasterMap site plan N/A: >10ha

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	97	74	203	418	-
43 >	1.2 >	Historical tanks >	4	0	20	31	-
45 >	1.3 >	Historical energy features >	0	0	8	20	-
47	1.4	Historical petrol stations	0	0	0	0	-
47 >	1.5 >	Historical garages >	1	0	0	9	-
48	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
49 >	2.1 >	Historical industrial land uses >	129	86	253	525	-
85 >	2.2 >	Historical tanks >	4	0	38	47	-
89 >	2.3 >	Historical energy features >	0	0	12	27	-
90	2.4	Historical petrol stations	0	0	0	0	-
90 >	2.5 >	Historical garages >	1	0	0	13	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
92 >	3.1 >	Active or recent landfill >	0	0	0	1	-
93	3.2	Historical landfill (BGS records)	0	0	0	0	-
93 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	2	0	-
93 >	3.4 >	Historical landfill (EA/NRW records) >	1	0	0	1	-
94 >	3.5 >	Historical waste sites >	3	0	1	0	-
95 >	3.6 >	Licensed waste sites >	0	0	3	27	-
103 >	3.7 >	Waste exemptions >	0	0	4	10	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
106 >	4.1 >	Recent industrial land uses >	1	1	15	-	-
108 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
108	4.3	Electricity cables	0	0	0	0	-
108	4.4	Gas pipelines	0	0	0	0	-
108	4.5	Sites determined as Contaminated Land	0	0	0	0	-

108	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
109	4.7	Regulated explosive sites	0	0	0	0	-
109	4.8	Hazardous substance storage/usage	0	0	0	0	-
109	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
109 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	1	0	-
110 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	2	4	-
111	4.12	Radioactive Substance Authorisations	0	0	0	0	-
111 >	4.13 >	Licensed Discharges to controlled waters >	4	0	6	14	-
114	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
114	4.15	Pollutant release to public sewer	0	0	0	0	-
115	4.16	List 1 Dangerous Substances	0	0	0	0	-
115	4.17	List 2 Dangerous Substances	0	0	0	0	-
115 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	1	5	-
116	4.19	Pollution inventory substances	0	0	0	0	-
116	4.20	Pollution inventory waste transfers	0	0	0	0	-
116	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
117 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
118 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
119 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
120	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
120	5.5	Groundwater vulnerability- local information	None (within 0m)				
121 >	5.6 >	Groundwater abstractions >	0	0	0	0	2
122 >	5.7 >	Surface water abstractions >	0	0	0	0	10
125	5.8	Potable abstractions	0	0	0	0	0
125	5.9	Source Protection Zones	0	0	0	0	-
125	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
126 >	6.1 >	Water Network (OS MasterMap) >	4	3	19	-	-

129 >	6.2 >	Surface water features >	1	1	10	-	-
129 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
129 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
130 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
131	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
131	7.2	Historical Flood Events	0	0	0	-	-
131	7.3	Flood Defences	0	0	0	-	-
132	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
132	7.5	Flood Storage Areas	0	0	0	-	-
133	7.6	Flood Zone 2	None (within 50m)				
133	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
134 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
136 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
137 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
138	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
138	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
138	10.4	Special Protection Areas (SPA)	0	0	0	0	0
138	10.5	National Nature Reserves (NNR)	0	0	0	0	0
139	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
139 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	13
140	10.8	Biosphere Reserves	0	0	0	0	0
140	10.9	Forest Parks	0	0	0	0	0
140	10.10	Marine Conservation Zones	0	0	0	0	0
140	10.11	Green Belt	0	0	0	0	0
140	10.12	Proposed Ramsar sites	0	0	0	0	0

141	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
141	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
141	10.15	Nitrate Sensitive Areas	0	0	0	0	0
141	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
142	10.17	SSSI Impact Risk Zones	0	-	-	-	-
142	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
143	11.1	World Heritage Sites	0	0	0	-	-
143	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
143	11.3	National Parks	0	0	0	-	-
143	11.4	Listed Buildings	0	0	0	-	-
144	11.5	Conservation Areas	0	0	0	-	-
144	11.6	Scheduled Ancient Monuments	0	0	0	-	-
144	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
145 >	**12.1** >	**Agricultural Land Classification** >	Grade 4 (within 250m)				
146 >	**12.2** >	**Open Access Land** >	0	0	1	-	-
146	12.3	Tree Felling Licences	0	0	0	-	-
147	12.4	Environmental Stewardship Schemes	0	0	0	-	-
147	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
148	13.1	Priority Habitat Inventory	0	0	0	-	-
148	13.2	Habitat Networks	0	0	0	-	-
148	13.3	Open Mosaic Habitat	0	0	0	-	-
148	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	**Geology 1:10,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
149 >	**14.1** >	**10k Availability** >	Identified (within 500m)				
150	14.2	Artificial and made ground (10k)	0	0	0	0	-
151	14.3	Superficial geology (10k)	0	0	0	0	-

151	14.4	Landslip (10k)	0	0	0	0	-
152	14.5	Bedrock geology (10k)	0	0	0	0	-
152	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	**Geology 1:50,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
153 >	15.1 >	50k Availability >	Identified (within 500m)				
154 >	15.2 >	Artificial and made ground (50k) >	1	0	0	0	-
155 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
156 >	15.4 >	Superficial geology (50k) >	1	0	0	0	-
157 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
157	15.6	Landslip (50k)	0	0	0	0	-
157	15.7	Landslip permeability (50k)	None (within 50m)				
158 >	15.8 >	Bedrock geology (50k) >	1	0	2	2	-
159 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
159 >	15.10 >	Bedrock faults and other linear features (50k) >	1	0	4	8	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
161 >	16.1 >	BGS Boreholes >	1	0	17	-	-
Page	Section	**Natural ground subsidence** >					
163 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
164 >	17.2 >	Running sands >	Very low (within 50m)				
165 >	17.3 >	Compressible deposits >	Very low (within 50m)				
167 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
168 >	17.5 >	Landslides >	Moderate (within 50m)				
170 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings** >	On site	0-50m	50-250m	250-500m	500-2000m
172 >	18.1 >	BritPits >	1	4	5	18	-
178 >	18.2 >	Surface ground workings >	93	44	268	-	-
193 >	18.3 >	Underground workings >	12	10	12	21	48
197	18.4	Underground mining extents	0	0	0	0	-
197	18.5	Historical Mineral Planning Areas	0	0	0	0	-

197 >	18.6 >	Non-coal mining >	1	0	3	1	5
199	18.7	JPB mining areas	None (within 0m)				
199 >	18.8 >	The Coal Authority non-coal mining >	0	3	5	1	-
200	18.9	Researched mining	0	0	0	0	-
200	18.10	Mining record office plans	0	0	0	0	-
200 >	18.11 >	BGS mine plans >	1	0	0	0	-
200 >	18.12 >	Coal mining >	Identified (within 0m)				
201	18.13	Brine areas	None (within 0m)				
201	18.14	Gypsum areas	None (within 0m)				
201	18.15	Tin mining	None (within 0m)				
201	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
202	19.1	Natural cavities	0	0	0	0	-
202	19.2	Mining cavities	0	0	0	0	0
202	19.3	Reported recent incidents	0	0	0	0	-
202	19.4	Historical incidents	0	0	0	0	-
203	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
204 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
206 >	21.1 >	BGS Estimated Background Soil Chemistry >	3	2	-	-	-
206	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
207	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
208	22.1	Underground railways (London)	0	0	0	-	-
208	22.2	Underground railways (Non-London)	0	0	0	-	-
209	22.3	Railway tunnels	0	0	0	-	-
209 >	22.4 >	Historical railway and tunnel features >	16	11	26	-	-
211	22.5	Royal Mail tunnels	0	0	0	-	-

211 >	22.6 >	Historical railways >	1	0	0	-	-
212	22.7	Railways	0	0	0	-	-
212	22.8	Crossrail 1	0	0	0	0	-
212	22.9	Crossrail 2	0	0	0	0	-
212	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 14/04/2020

Site Area: 14.75ha

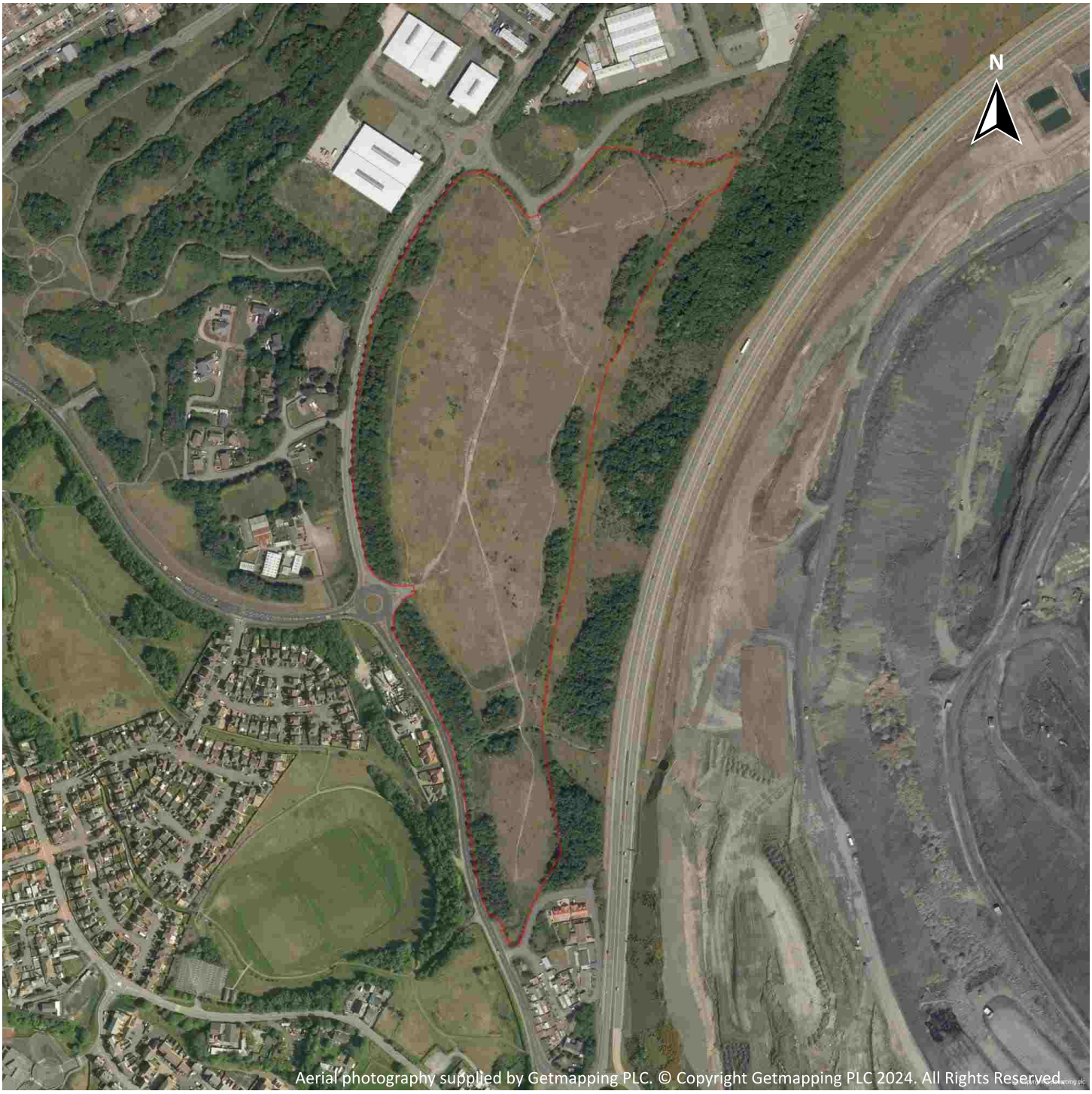
Recent site history - 2017 aerial photograph



Capture Date: 17/06/2017

Site Area: 14.75ha

Recent site history - 2013 aerial photograph



Capture Date: 14/07/2013

Site Area: 14.75ha

Recent site history - 2008 aerial photograph



Capture Date: 12/05/2008

Site Area: 14.75ha