

# Archaeology Wales

## Stephenson Street (Newport)

Archaeological Watching Brief



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Report No. 1927

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## Contents

Non-Technical Summary.....	1
Crynodeb.....	1
1. Introduction.....	2
1.1. Location and Scope of Work.....	2
1.2. Topography and Geology.....	2
1.3. Archaeological and Historical Background.....	2
2. Objectives and Methodology .....	3
2.1. Objectives .....	3
2.2. Methodology.....	3
3. Watching Brief Results .....	4
3.1. TP1a (Plate 3).....	4
3.2. TP1b (Plate 4).....	5
3.3. TP1c (Plates 5) .....	5
3.4. TP02a (Plate 6).....	5
3.5. TP02b (Plate 7).....	6
3.6. TP03 (Plate 8).....	6
3.7. TP04b (Plate 9).....	7
3.8. TP05 (Plate 10).....	8
3.9. TP06 (Plate 11).....	8
3.10. TP07 (Plate 12).....	8
3.11. WS1a (Plate 1).....	8
3.12. WS1b (Plate 2).....	9
4. Finds.....	9
5. Conclusion.....	9
6. Bibliography.....	9

## Tables

Table 1. Location of Trial Pits.....	3
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## Figures

Figure 1. Location of Trial Pits.....	<b>Error! Bookmark not defined.</b>
Figure 2. Location of Trial Pits:TP1a, TP1b, TP1c, TP02b, TP2, TP3, TP4, WS1a & WS1. .....	<b>Error! Bookmark not defined.</b>
Figure 3. Location of Trial Pits: TP5, TP6 & TP7.....	<b>Error! Bookmark not defined.</b>

## Plates

Plate 1	Plan shot of WS1a. Scale 0.3m.
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Plate 2	Plan shot of WS1b. Scale 0.3m.
Plate 3	Plan shot of TP01a. Scale 0.3m.
Plate 4	Plan shot of TP01b. Scale 0.3m.
Plate 5	Plan shot of TP01c. Scale 0.3m.
Plate 6	Plan shot of TP02a. Scale 1m.
Plate 7	Plan shot of TP02b. Scale 1m.
Plate 8	Plan shot of TP03. Scale 1m.
Plate 9	Plan shot of TP04. Scale 1m.
Plate 10	Plan shot of TP05. Scale 0.3m.
Plate 11	Plan shot of TP06. Scale 0.3m.
Plate 12	Plan shot of TP07. Scale 0.3m.

## **Appendices**

Appendix 1	Proposed location of trial pits (prior to work commencing)
Appendix 2	Context inventory
Appendix 3	Written Scheme of Investigation

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## Non-Technical Summary

*This report results from work undertaken by Archaeology Wales Ltd (AW) for Natural Resources Wales (NRW). The work consisted of an archaeological watching brief on the eastern bank of the River Usk, Felnex Industrial Estate, Newport, Gwent, centred on NGR ST 33145 85443. The watching brief was undertaken during ground intrusive works associated with the ground investigation (GI) trial-pitting as a part of the Stephenson Street Flood Risk Management Project option 2B. The excavations revealed no archaeological features or finds.*

*All work was undertaken to the Standards and Guidance for an Archaeological Watching Brief (Update 2020) as set by the Chartered Institute for Archaeologists (CIfA).*

## Crynodeb

*Mae'r adroddiad hwn yn ganlyniad i waith a wnaed gan Archaeology Cymru Cyf i Cyfoeth Naturiol Cymru. Roedd y gwaith yn cynnwys briff gwyllo archeolegol ar gefn ddwyreiniol yr Afon Wysg, Ystâd Ddiwydiannol Felnex, Casnewydd, Gwent, y mae canol y safle wedi'i leoli yn NGR ST 33145 85443. Cynhaliwyd y briff gwyllo yn ystod y gwaith tir ymwithiol a oedd yn gysylltiedig â phyllau prawf yr ymchwiliad tir fel rhan o opsiwn 2B Prosiect Rheoli'r Risg o Lifogydd Stryd Stephenson. Ni ddatgelodd y gwaith cloddio unrhyw nodweddion neu ganfyddiadau archeolegol.*

*Gwnaed yr holl waith yn unol â'r Safonau a'r Canllawiau ar gyfer Briff Gwyllo Archeolegol (Diweddariad 2020) fel y'u lluniwyd gan Sefydliad Siartredig yr Archeolegwyr.*

# **1. Introduction**

## **1.1. Location and Scope of Work**

- 1.1.1. In February 2020, Archaeology Wales Ltd (AW) was commissioned by Natural Resources Wales (NRW) to undertake an archaeological watching brief on the eastern bank of the River Usk, Felnex Industrial Estate, Newport, Gwent. The site is centred on NGR ST 33145 85443. The watching brief was undertaken during ground intrusive works associated with the ground investigation (GI) trial-pitting as a part of the Stephenson Street Flood Risk Management Project option 2B. Proposed location and the exact location of the trial pits can be found in Appendix 1 and Figures 1 – 3 respectively.
- 1.1.2. The requirements for the archaeological mitigation were agreed with Glamorgan-Gwent Archaeological Trust APM (GGAT-APM) in its capacity as archaeological advisors to Newport City Council (NCC). GGAT-APM recommended that a watching brief was carried out during ground investigation trial-pitting to mitigate the impact of the proposed development on the archaeological resource.
- 1.1.3. Consequently, a Written Scheme of Investigation (WSI) was prepared by Irene Garcia Rovira (Project Manager, AW - MClfA) prior to the work taking place. This was subsequently approved by GGAT-APM. All works were carried out in accordance with the ClfA *Standard and Guidance for Archaeological Watching Briefs* (Update 2020).
- 1.1.4. The project was managed by Irene Garcia Rovira (AW Project Manager - MClfA), and the field work was conducted by Dan Moore (AW).

## **1.2. Topography and Geology**

- 1.2.1. The site is located south from the centre of Newport on the eastern bank of the River Usk NGR ST 33145 85443. The proposed development area is characterised as an industrial and commercial area known as the Felnex industrial estate.
- 1.2.2. The geology of the area forms part of the Mercia Mudstone Group Formation composed of a mix of mudstone, siltstones, sandstones, and halite. The superficial deposits are characterised as Tidal Flat Deposits composed of clay and silt (BGS 2020).

## **1.3. Archaeological and Historical Background**

- 1.3.1. A rapid examination of cartographic sources notes that the site has largely been used for agricultural purposes since the 19th century, with a number of reens and ditches present within.
- 1.3.2. The Great Western Railway line and embankment appears by 1902 close to the north easternmost boundary of option 2B proposed development, along with the Union Dry Docks Cottages located southeast, and just outside of the boundary of the proposed works.
- 1.3.3. In the southeast section of the development area were three small structures that appear in 1956 on the aerial photographs located north of the lake, at the southern extremity of site.

- 1.3.4. The wider area has been subjected to study in two DBAs (see Garcia Rovira 2015, 2019). The results noted that this region is not in close proximity to any Scheduled Ancient Monument. A prominent Grade I bridge – the Transporter Bridge (LB17414, LB17415 and LB3076) – is located to the north of the site.
- 1.3.5. Moreover, little is known about the prehistoric period at Newport. Most evidence comes from individual finds spots. The Roman period is dominated by the fort at Caerleon located some 4.8km to the North of Newport. Roman finds have been found in Newport however, no structural evidence has been noted to date. Newport boast impressive medieval remains and it is during this time that the area develops as a port.
- 1.3.6. In 2002 the well-preserved remains of a large medieval ship (02339g/307059), provisionally dated by dendrochronology to 1465-1466, were discovered 115m to the south of Town Pill some 1.8km upstream of the ground investigation area (Howell and Dunning 2004). Its importance as a maritime trading centre continues into the postmedieval period.

## 2. Objectives and Methodology

### 2.1. Objectives

2.1.1. The objectives of the watching brief were:

- to allow the investigation and recording of any archaeological features that were uncovered during the proposed groundworks within the application area.
- to provide the opportunity, if needed, for the watching archaeologist to signal to all interested parties, before the destruction of the material in question, that an archaeological find was made for which the resources allocated to the watching brief were not sufficient to support the treatment to a satisfactory or proper standard.

### 2.2. Methodology

2.2.1. All groundworks were monitored by a qualified watching brief archaeologist.

2.2.2. TP1a, TP1b, TP1c, TP05, TP06, TP07, WS1a and WS1b were excavated by hand. TP02, TP02b, TP03 and TP04 were excavated by machine (5 tonne excavator with 0.3m wide toothless bucket). However, the trial pit locations stated in the WSI were different to the trial pits that were excavated. The updated locations of the trial pits can be found below, and in Figures 1 – 3.

*Table 1. Location of Trial Pits*

<b>Trial Pit Number</b>	<b>X (Easting)</b>	<b>Y (Northing)</b>
TP02b	332502.4	185642.9
TP1a	332796.8	185699
TP1b	332797.8	185700.3
TP1c	332850.4	185672.6
TP2	333106.2	185464
TP3	333155	185428.9

TP4	333368	185253.8
TP5	333534.5	184176.4
TP6	333549.2	184172.3
TP7	333562.6	184170.7
WS1	333107.1	185449.1
WS1a	333104.4	185460

- 2.2.3. TP1a, TP1b and TP1a were located within Marshalls (Marshalls Plc). TP1a was located at the base of the railway line embankment below TP1b. TP1b was located on the railway line embankment, above TP1a. TP1c was located on the railway line embankment, south east of TP1b.
- 2.2.4. TP02, WS1a, and WS1b were located on land immediately north-east of the railway bridge spanning Corporation Road. TP02 was located on the railway line embankment, approximately 2m from WS1b. WS1a was located approximately 4m south-east of WS1b, and directly below the railway embankment. WS1a was relocated and renamed WS1b. WS1b was located on approximately 4m north-west of WS1a, directly below the railway embankment.
- 2.2.5. TP02b was located on land immediately opposite the entrance to Hanson (Hanson Ready-mixed Concrete) on East Bank Road and was located c. 0.5m north-east of TP02 from Phase 3.
- 2.2.6. TP03 was located on land immediately south of the railway bridge spanning Corporation Road and was located on the railway line embankment in the north-west corner of the site.
- 2.2.7. TP04 was located in a wooded area, north-east of Liberty Steel main entrance, on the railway embankment next to standing water.
- 2.2.8. TP05, TP06, and TP07 were located in a wooded area near the south-east corner of Liberty Steel land, immediately east of the N-S aligned railway line. TP05 was located on the embankment of the railway line, approximately 11m west from TP06. TP06 was located on moderately flat ground between TP05 and TP07 (approximately 11m from each). TP07 was located on an embankment, approximately 11m east of TP06
- 2.2.9. All deposits were recorded by means of a continuous context numbering system and recorded on pro-forma context sheets. Sections and plans of the excavation were photographed using a 16MP digital camera. All of the work was undertaken in accordance with the ClfA's *Standards and Guidance for an archaeological watching* brief (Update 2020) and current Health and Safety legislation.

### **3. Watching Brief Results**

#### **3.1. TP1a (Plate 3)**

- 3.1.1. TP1a measured 0.4m in diameter and 0.7m in depth. It was located on moderately flat ground, at the base of the embankment of the railway line, below TP1b. No finds were recorded. Basal deposit (1004) was made ground and

consisted of a compact dark brown very gravelly fine to coarse sand. The gravel was fine to coarse and included frequent inclusions of angular and sub-angular fragments of slag. This deposit could possibly be coal dust. The deposit measured in excess of 0.1m in thickness and was encountered at a depth of 0.6m from surface level. It was overlaid by deposit (1003). Deposit (1003) was made ground and consisted of a compact mid-brown silty sand fine to coarse angular gravel of concrete fragments and slag. It also had moderately frequent of sub-angular stone inclusions. The deposit measured 0.2m in thickness and was encountered at a depth of 0.4m from surface level. Deposit (1003) was overlaid by deposit (1002). Deposit (1002) was the surface level and comprised a compact mid-grey brown silt with a high frequency of bricks. The deposit measured in excess of 0.4m in length, 0.4m in width and was 0.4m in thickness.

### **3.2. TP1b (Plate 4)**

3.2.1. TP1b measured 0.4m in diameter and 1.2m in depth. It was located on the railway line embankment, above TP1a. Basal deposit (1001) was a compact mid-brown grey silt with moderately frequent sub-angular stone inclusions. A CBM fragment was discovered near the base of the pit. The deposit measured in excess of 0.9m in thickness and was encountered at a depth of 0.3m from surface level. It was overlaid by deposit (1000). Deposit (1000) was the surface level and comprised a compact mid-grey brown silt with moderately frequent sub-angular stone inclusions. The deposit measured in excess of 0.4m in length, 0.4m in width and was 0.3m in thickness.

### **3.3. TP1c (Plates 5)**

3.3.1. TP1c measured 0.4m in diameter and 1.2m in depth. It was located on the railway line embankment, south east of TP1b. No finds were recorded. Basal deposit (1008) was a compact mid-grey brown sandy silt with rooting activity. The deposit measured in excess of 0.4m in thickness and was encountered at a depth of 0.8m in from surface level. Deposit (1008) was overlaid by deposit (1007). Deposit (1007) was a compact mid-grey brown silt with moderately frequent sub-angular stone inclusions and concrete. The deposit measured 0.12m in thickness and was encountered 0.68m from surface level. Deposit (1007) was overlaid by deposit (1006). Deposit (1006) was a compact mid-brown grey gravelly sand. It measured 0.28m in thickness and was encountered at a depth of 0.4m from surface level. Deposit (1006) was overlaid by deposit (1005). Deposit (1005) was the surface level and comprised a compact mid-grey brown gravelly/silty sand with moderately frequent sub-angular stone inclusions. The deposit measured in excess of 0.4m in length, 0.4m in width and was 0.4m in thickness.

### **3.4. TP02a (Plate 6)**

3.4.1. TP02 measured 1.6m in length, 0.5m in width and 2m in depth. It was located on the railway line embankment, approximately 2m from WS1b. No finds were recorded. All measurements were taken from the highest point of the trench. Basal deposit (2004) was a concrete layer. It measured in excess of 0.3m in

thickness and was encountered at 1.7m from surface level. Deposit (2004) was overlaid by deposit (2003). Deposit (2003) was a concrete layer and current ground level (at the bottom of the embankment). It measured 0.3m in thickness and was encountered at 1.4m from surface level. Deposit (2003) was overlaid by deposit (2002). Deposit (2002) was a compact mid to dark brown clayey sand with a very high frequency of chippings 0.01m in diameter. It measured 0.4m in thickness and was encountered at a depth of 1m from surface level. Deposit (2002) was overlaid by deposit (2001). Deposit (2001) was a compact mid-grey brown clayey sand. Finds were modern and included plastic and broken brick. The deposit measured 0.5m in thickness and was encountered at a depth of 0.5m from surface level. Deposit (2001) was overlaid by deposit (2000). Deposit (2000) was the surface level and comprised a compact mid-grey clayey sand. Finds were modern and included plastic. The deposit measured in excess of 1.6m in length, 0.5m in width and was 0.5m in thickness.

### **3.5. TP02b (Plate 7)**

3.5.1. TP02b measured 2.2m in length, 0.6m in width and 2.5m in depth. It was located c. 0.5m north-east of TP02 from Phase 3, on flat ground. No finds were recorded. Basal deposit (2010) was a compact blueish grey and dark grey mottled silty clay with infrequent inclusions of organic fragments. This was identified as tidal flat deposits. It measured in excess of 1.8m in thickness and was encountered at a depth of 0.7m from surface level. Deposit (2010) was overlaid by deposit (2009). Deposit (2009) was a compact greyish brown sandy silty clay with occasional organic fragments. It was identified as tidal flat deposits. It measured 0.18m in thickness and was encountered at a depth of 0.52m from surface level. Deposit (2009) was overlaid by deposit (2008). Deposit (2008) was made ground and consisted of a compact mid to dark grey black coarse sandy clay. It measured 0.1m in thickness and was encountered at a depth of 0.42m from surface level. Deposit (2008) was overlaid by deposit (2007). Deposit (2007) was a moderately compact mid-yellow brown sand. It measured 0.2m in thickness and was encountered at a depth of 0.22m from surface level. The deposit was associated with deposit (2005). Deposit (2007) was overlaid by deposit (2006). Deposit (2006) was made ground that consisted of an aggregate with moderately compact mid-red brown very gravelly fine to coarse sand. It measured 0.1m in thickness and was encountered at a depth of 0.12m from surface level. The deposit was associated with deposit (2005). Deposit (2006) was overlaid by deposit (2005). Deposit (2005) was concrete layer and surface level. It measured in excess of 2.2m in length, 0.6m in width and was 0.12m in thickness.

### **3.6. TP03 (Plate 8)**

3.6.1. TP03 measured 1.2m in length, 0.7m in width and 1.4m in depth. It was located on the railway line embankment. All measurements were taken from the highest point of the trench. Basal deposit (3004) was a compact mid yellow brown sandy clay. It measured in excess of 0.2m in thickness and was encountered

at a depth of 1.2m from surface level. Deposit (3004) was overlaid by deposit (3003). Deposit (3003) was a compact mid-grey brown silt with a very high frequency of sub angular stone inclusions that measured between 0.05m x 0.05m x 0.05m and 0.3m x 0.3m x 0.1m. The deposit measured 0.3m in thickness and was encountered at a depth of 0.9m from surface level. Deposit (3003) was overlaid by deposit (3002). Deposit (3002) was a compact mid-yellow brown clayey sand. It measured 0.2m in thickness and was encountered at a depth of 0.7m from surface level. Deposit (3002) was overlaid by deposit (3001). Deposit (3001) was a compact mid to dark brown grey silt with a moderately high frequency of sub angular stone inclusions 0.05m in diameter. It measured 0.25m in thickness and was encountered at a depth of 0.45m from surface level. The deposit contained modern detritus, including a plastic bottle and glass fragments. Deposit (3001) was overlaid by deposit (3000). Deposit (3000) was a compact dark grey brown loam with a very high frequency of rooting activity. It measured in excess of 1.2m in length, 0.7m in width and was 0.45m in thickness. The deposit contained modern detritus, including glass bottle fragments and plastic cellophane type material. Deposit (3000) was cut by [3006]. Cut [3006] was a NW-SE orientated linear cut. The cut was located at the bottom of the embankment immediately next to, and parallel with, the flat concrete surface level. The cut measured in excess of 0.7m in length, was 0.3m in width and 0.45m in depth. The cut contained fill (3005). This comprised a modern grey plastic service pipe 0.1m in diameter within which were two black rubber cables and a thin blue nylon rope. It also included a dark grey brown loam backfill. The pipe was encountered at a depth of 0.4m from surface level.

### **3.7. TP04b (Plate 9)**

3.7.1. TP04 measured 1m in length, 0.4m in width and 1.6m in depth. It was located on the railway embankment, in a wooded area next to standing water. Basal deposit (4003) was a compact mid-grey brown grey sandy clay with a moderately high frequency of rooting activity. It measured in excess of 0.4m in thickness and was encountered at a depth of 1.2m from surface level. Deposit (4003) was overlaid by deposit (4002). Deposit (4002) was a compact mid to dark grey brown clayey silt and possible coal dust with a moderately high frequency of rooting activity, sub angular stones (0.2m x 0.15m x 0.1m on average), and broken brick. The deposit measured 0.5m in thickness and was encountered 0.7m from surface level. Deposit (4002) was overlaid by deposit (4001). Deposit (4001) was a compact mid to dark black brown silt and possible coal dust with moderately high rooting activity, sub angular stones (0.2m x 0.14m x 0.1m on average), and broken brick. A hollow cylinder shaped piece of clear glass was also recorded. The deposit measured 0.6m in thickness and was encountered at a depth of 0.1m from surface level. Deposit (4001) was overlaid by deposit (4000). Deposit (4000) was a compact mid to dark grey brown loam with a moderately high frequency of rooting activity. It measured in excess of 1m in length, 0.4m in width and was 0.1m in thickness.

### **3.8. TP05 (Plate 10)**

3.8.1. TP05 measured 0.3m in diameter and 1.2m in depth. It was located on the embankment of the railway line, in a wooded area, approximately 11m west from TP06. Basal deposit (5001) was a compact dark black brown silt and possible coal dust with a high frequency of sub angular stone inclusions 0.01m in diameter. Brick fragments were discovered within the deposit. Deposit (5001) measured in excess of 0.5m in thickness and was encountered at a depth of 0.7m from surface level. Deposit (5001) was overlaid by deposit (5000). Deposit (5000) was a compact dark grey brown loam with moderately frequent stone inclusions and rooting activity. The deposit measured 0.7m in thickness.

### **3.9. TP06 (Plate 11)**

3.9.1. TP06 measured 0.4m in diameter and 1.2m in depth. It was located on moderately flat ground, in a wooded area, between TP05 and TP07 (approximately 11m from each). No finds were recorded. Basal deposit (6001) was a compact mid to light brown grey sandy clay. The deposit measured in excess of 1.1m in thickness and was encountered at a depth of 0.1m from surface level. Deposit (6001) was overlaid by deposit (6000). Deposit (6000) was a compact dark grey brown loam with rooting activity. The deposit measured 0.1m in thickness.

### **3.10. TP07 (Plate 12)**

3.10.1. TP07 measured 0.4m in diameter and 1.2m in depth. It was located on an embankment, in a wooded area, approximately 11m east of TP06. No finds were recorded. Basal deposit (7003) was a compact mid to light grey brown sandy clay with moderately low rooting activity. The deposit measured in excess of 0.8m in thickness and was encountered at a depth of 0.4m from surface level. Deposit (7003) was overlaid by deposit (7002). Deposit (7002) was a compact mid to dark grey brown silt with a low frequency of light cream coloured sub angular stone inclusions that measured (on average) 0.1m x 0.1m x 0.05m. The deposit measured 0.1m in thickness and was encountered at a depth of 0.3m from surface level. Deposit (7002) was overlaid by deposit (7001). Deposit (7001) was a compact mid to light grey brown clayey silt with moderately high frequency of rooting activity. The deposit measured 0.2m in thickness and was encountered at a depth of 0.1m from surface level. Deposit (7001) was overlaid by deposit (7000). Deposit (7000) was a dark grey brown loam with moderately high rooting activity. The deposit was 0.1m in thickness.

### **3.11. WS1a (Plate 1)**

3.11.1. WS1a measured 0.3m in diameter and 0.7m in depth. It was located on moderately flat ground approximately 4m south-east of WS1b, and directly below the railway embankment. No finds were recorded. Basal deposit (8002) was a concrete layer. It measured in excess of 0.01m in thickness and was encountered at a depth of 0.7m from surface level. Deposit (8002) was overlaid by deposit (8001). Deposit (8001) was a compact mid-brown grey gravelly silt with a moderately high frequency of sub angular stone inclusions. The deposit

measured 0.54m in thickness and was encountered at a depth of 0.16m from surface level. Deposit (8001) was overlaid by deposit (8000). Deposit (8000) was a compact mid-grey brown sandy silt with a high frequency of sub angular stone inclusions 0.01m in diameter. The deposit measured 0.16m in thickness.

### **3.12. WS1b (Plate 2)**

3.12.1. WS1b measured 0.4m in diameter and 1.2m in depth. It was located on moderately flat ground approximately 4m north-west of WS1a, and directly below the railway embankment. Basal deposit (8008) was a compact mid-grey brown silt. It measured in excess of 0.08m in thickness and was encountered at a depth of 1.12m from surface level. Deposit (8008) was overlaid by deposit (8007). Deposit (8007) was a compact mid brown grey silt with a very high frequency of sub angular stone inclusions. Brick fragments were discovered within the deposit. The deposit measured 0.52m in thickness and was encountered at a depth of 0.6m from surface level. Deposit (8007) was overlaid by deposit (8006). Deposit (8006) was a compact mid-brown black silt and possible coal dust. The deposit measured 0.1m in thickness and was encountered at a depth of 0.5m from surface level. Deposit (8006) was overlaid by deposit (8005). Deposit (8005) was a concrete layer with an embedded scrap of folded thin metal. The deposit measured 0.16m in thickness and was encountered at a depth of 0.34m from surface level. Deposit (8005) was overlaid by deposit (8004). Deposit (8004) was a compact mid grey brown clayey silt. It measured 0.14m in thickness and was encountered at a depth of 0.2m from surface level. Deposit (8004) was overlaid by deposit (8003). Deposit (8003) was a compact mid-brown grey sandy silt with a high frequency of sub angular stone inclusions 0.01m in diameter. The deposit measured 0.2m in thickness.

## **4. Finds**

4.1.1. No finds were recovered from the watching brief, and no archaeological features were recorded.

## **5. Conclusion**

5.1.1. No archaeological features or finds were revealed during the watching brief. It can therefore be concluded that the work did not negatively impact the archaeological resource of the area.

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### Appendix 1 – Proposed numbers and location of trial pits

Trial Hole Number	Eastings	Northings	Scheduled Depth (m)
CPT01	332440	185684	20.0
CPT02	332469	185711	20.0
CPT03	332440	185607	6.0
CPT04	332565	185589	6.0
CPT05	332701	185650	6.0
TP01	332415	185576	3.0
TP02	332502	185636	3.0

TP03	332615	185564	3.0
TP04	332667	185601	3.0
TP05	332717	185667	3.0
TP06	332748	185719	3.0
TP07	332560	185535	3.0
TP08	332655	185517	3.0
TP09	332703	185464	3.0
TP10	332796	185460	3.0

## Appendix 2 – Context Inventory

Context No.	Tr. No.	Type	Description	Dimensions	Relationship
1002	TP1a	Deposit	Compact mid grey brown silt with a very high frequency of broken brick	>0.4m diameter 0.4m thick	Above (1002)
1003	TP1a	Deposit	Compact mid brown grey silt	>0.4m diameter 0.2m thick	Below (1002); Above (1003)
1004	TP1a	Deposit	Compact mid brown grey silt	>0.4 diameter >0.1m thick	Below (1003)
1000	TP1b	Deposit	Compact mid grey brown silt	>0.4m diameter 0.3m thick	Above (1001)
1001	TP1b	Deposit	Compact mid brown grey silt with CBM	>0.4m diameter >0.9m thick	Below (1000)
1005	TP1c	Deposit	Compact mid grey brown gravelly silt	>0.4m diameter 0.4m thick	Above (1006)
1006	TP1c	Deposit	Compact mid brown grey gravelly sand	>0.4m diameter 0.28m thick	Below (1005); Above (1007)
1007	TP1c	Deposit	Compact mid grey brown silt	>0.4m diameter 0.12m thick	Below (1006); Above (1008)

1008	TP1c	Deposit	Compact mid grey brown sandy silt	>0.4m diameter >0.4m thick	Below (1007)
2000	TP02	Deposit	Compact mid brown grey clayey sand	>0.5m diameter >0.5m thick	Above (2001)
2001	TP02	Deposit	Compact mid grey brown clayey sand	>0.5m diameter >0.5m thick	Below (2000) Above (2002)
2002	TP02	Deposit	Compact dark brown grey clayey sand	>0.5m diameter >0.4m thick	Below (2001) Above (2003)
2003	TP02	Deposit	Concrete - modern ground level at base of embankment	>0.5m diameter >0.3m thick	Below (2002) Above (2004)
2004	TP02	Deposit	Concrete - second layer	>0.5m diameter >0.3m thick	Below (2003)
2005	TP02b	Deposit	Concrete	>0.6m diameter >0.12m thick	Above (2006)
2006	TP02b	Deposit	Compact mid red brown sand (aggregate)	>0.6m diameter >0.10m thick	Below (2005) Above (2007)
2007	TP02b	Deposit	Friable mid yellow brown sand	>0.6m diameter >0.10m thick	Below (2006) Above (2008)
2008	TP02b	Deposit	Compact dark grey black sandy clay	>0.6m diameter >0.10m thick	Below (2007) Above (2009)
2009	TP02b	Deposit	Compact mid brown grey sandy clay	>0.6m diameter >0.18m thick	Below (2008) Above (2010)
2010	TP02b	Deposit	Compact mid grey brown sandy clay	>0.6m diameter	Below (2009)

				>1.5m thick	
3000	TP03	Deposit	Friable dark grey brown loamy silt	>0.7m diameter >0.45m thick	Above (3001)
3001	TP03	Deposit	Friable dark grey brown silty loam	>0.7m diameter >0.25m thick	Below (3000) Above (3002)
3002	TP03	Deposit	Compact mid yellow brown clayey sand	>0.7m diameter >0.20m thick	Below (3001) Above (3003)
3003	TP03	Deposit	Compact mid grey brown silt	>0.7m diameter >0.30m thick	Below (3002) Above (3004)
3004	TP03	Deposit	Compact mid yellow brown sandy clay	>0.7m diameter >0.20m thick	Below (3003) Above (3005)
3005	TP03	Fill	Modern service pipe comprised of grey plastic	Located at 0.4m bgl	Fill of [3006]
3006	TP03	Cut	MW-SE orientated cut for (3005)	Located at 0.4m bgl	Filled by (3005)
4000	TP04	Deposit	Friable mid to dark grey brown silty loam	>0.4m diameter >0.10m thick	Above (4001)
4001	TP04	Deposit	Friable dark black brown silty loam	>0.4m diameter >0.60m thick	Below (4000) Above (4002)
4002	TP04	Deposit	Compact dark grey brown clayey silt	>0.4m diameter >0.50m thick	Below (4001) Above (4003)
4003	TP04	Deposit	Compact mid brown grey sandy clay	>0.4m diameter	Below (4002)

				>0.40m+ thick	
5000	TP05	Deposit	Friable dark grey brown silt	>0.3m diameter >0.7m thick	Above (5001)
5001	TP05	Deposit	Friable dark black brown silt	>0.3m diameter >0.50m thick	Below (5000)
6000	TP06	Deposit	Friable dark grey brown loam	>0.4m diameter >0.10m thick	Above (6001)
6001	TP06	Deposit	Compact mid to light brown grey sandy clay	>0.4m diameter >1.10m thick	Below (6000)
7000	TP07	Deposit	Friable dark grey brown loam	>0.40m diameter >0.10m thick	Above (7001)
7001	TP07	Deposit	Compact mid to light grey brown clayey silt	>0.40m diameter >0.20m thick	Below (7000) Above (7002)
7002	TP07	Deposit	Compact mid to dark grey brown silt	>0.40m diameter >0.10m thick	Below (7001) Above (7003)
7003	TP07	Deposit	Compact mid to light grey brown sandy clay	>0.4m diameter >1.20m thick	Below (7002)
2000	WS1a	Deposit	Friable mid grey brown sandy silt	>0.3m diameter >0.16m thick	Above (2001)
2001	WS1a	Deposit	Compact mid brown grey gravelly sand	>0.3m diameter	Below (2000) Above (2002)

				>0.54m thick	
2002	WS1a	Deposit	Concrete - LOE	>0.3m diameter >0.16m thick	(Below 2001)
2003	WS1b	Deposit	Friable mid brown grey fine gravel and silt	>0.4m diameter >0.20m thick	Above (2004)
2004	WS1b	Deposit	Compact mid grey red brown clayey silt	>0.4m diameter >0.20m thick	Below (2003) Above (2005)
2005	WS1b	Deposit	Concrete with metal strip	>0.4m diameter >0.16m thick	Below (2004) Above (2006)
2006	WS1b	Deposit	Compact mid brown black silty clay	>0.4m diameter >0.10m thick	Below (2005) Above (2007)
2007	WS1b	Deposit	Friable mid grey brown stones	>0.4m diameter >0.52m thick	Below (2006) Above (2008)
2008	WS1b	Deposit	Compact mid grey brown silt	>0.4m diameter >0.88m thick	Below (2007)

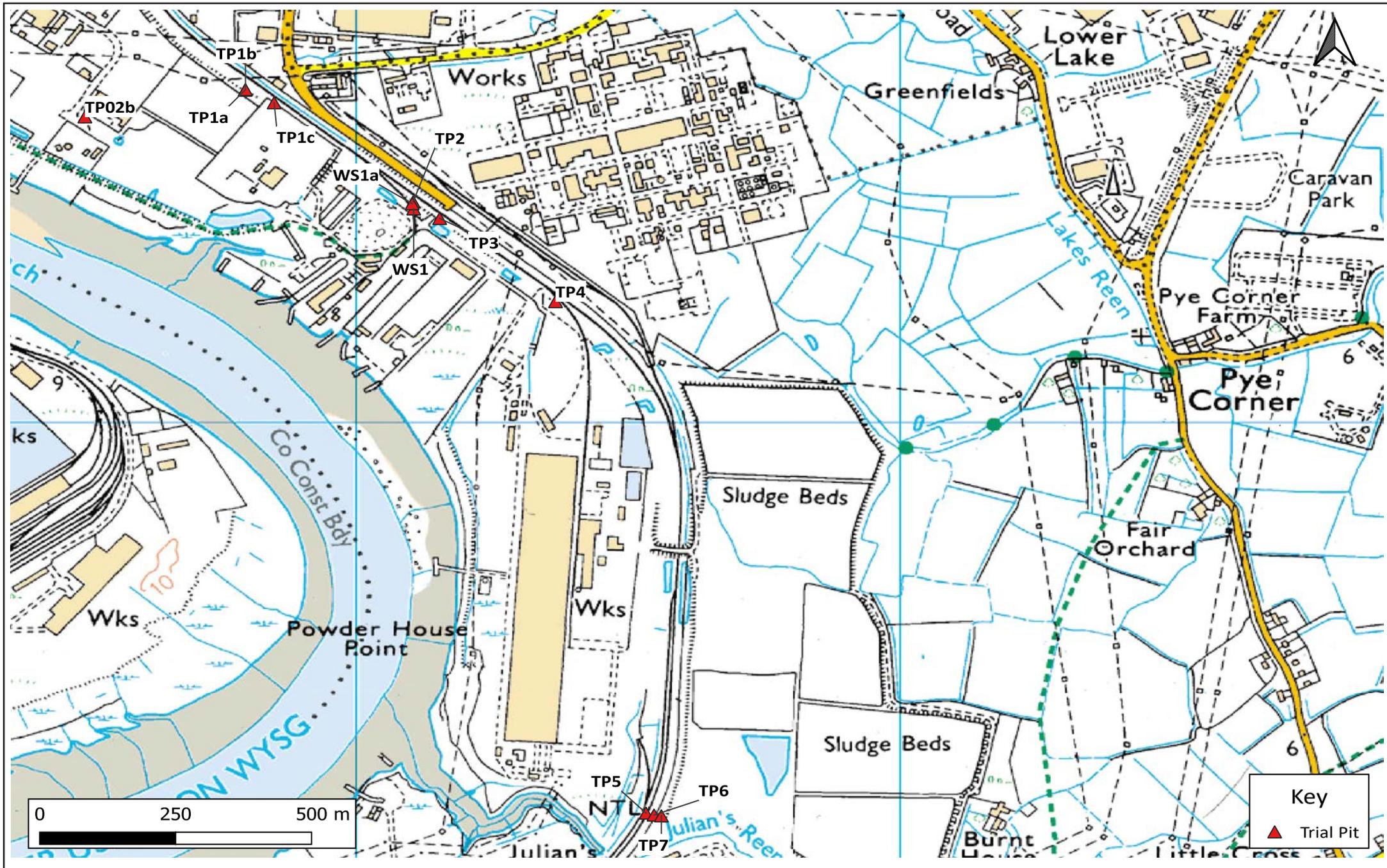


Figure 1. Location of Trial Pits

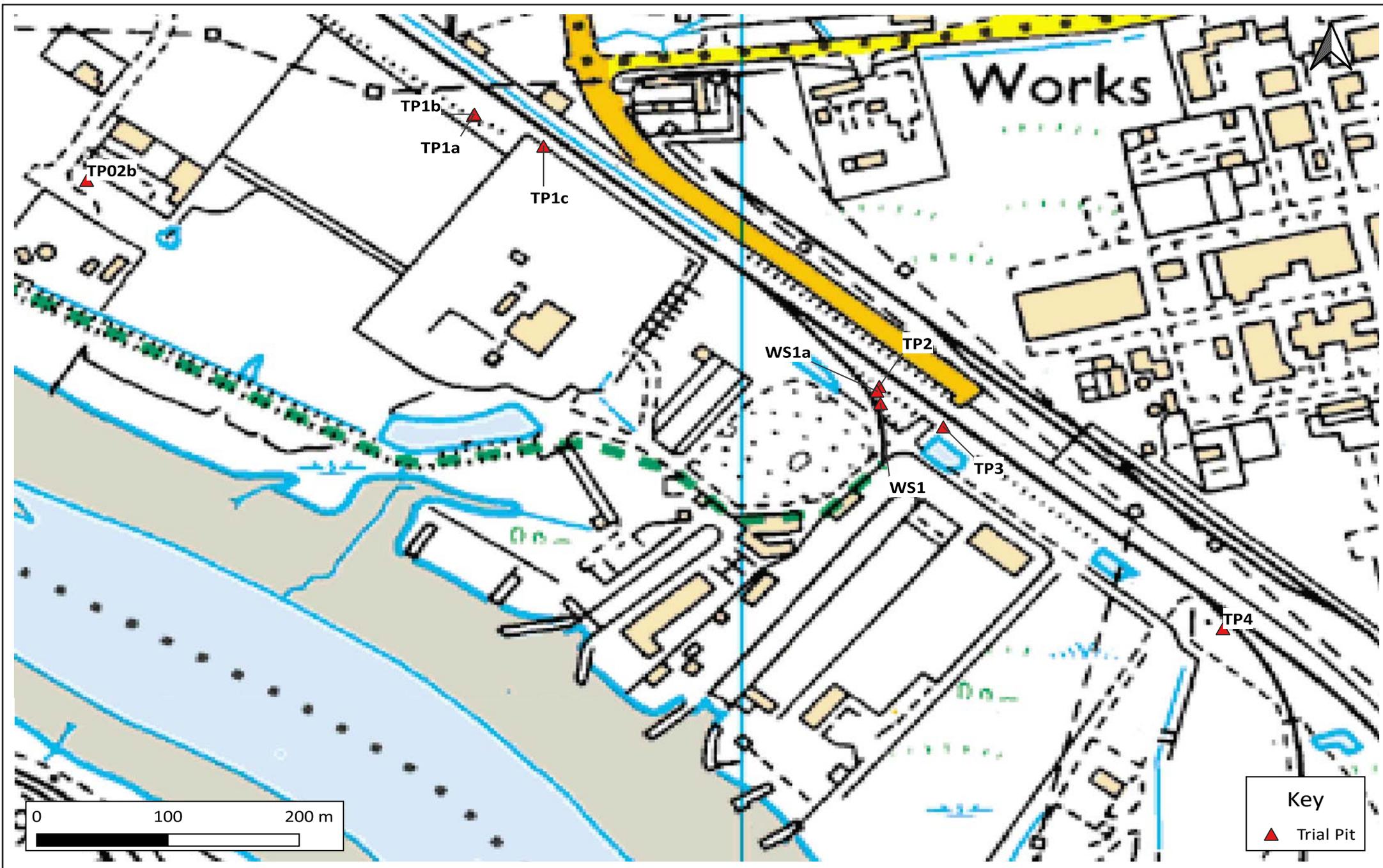


Figure 2. Location of Trial Pits: TP1a, TP1b, TP1c, TP02b, TP2, TP3, TP4, WS1a & WS1.

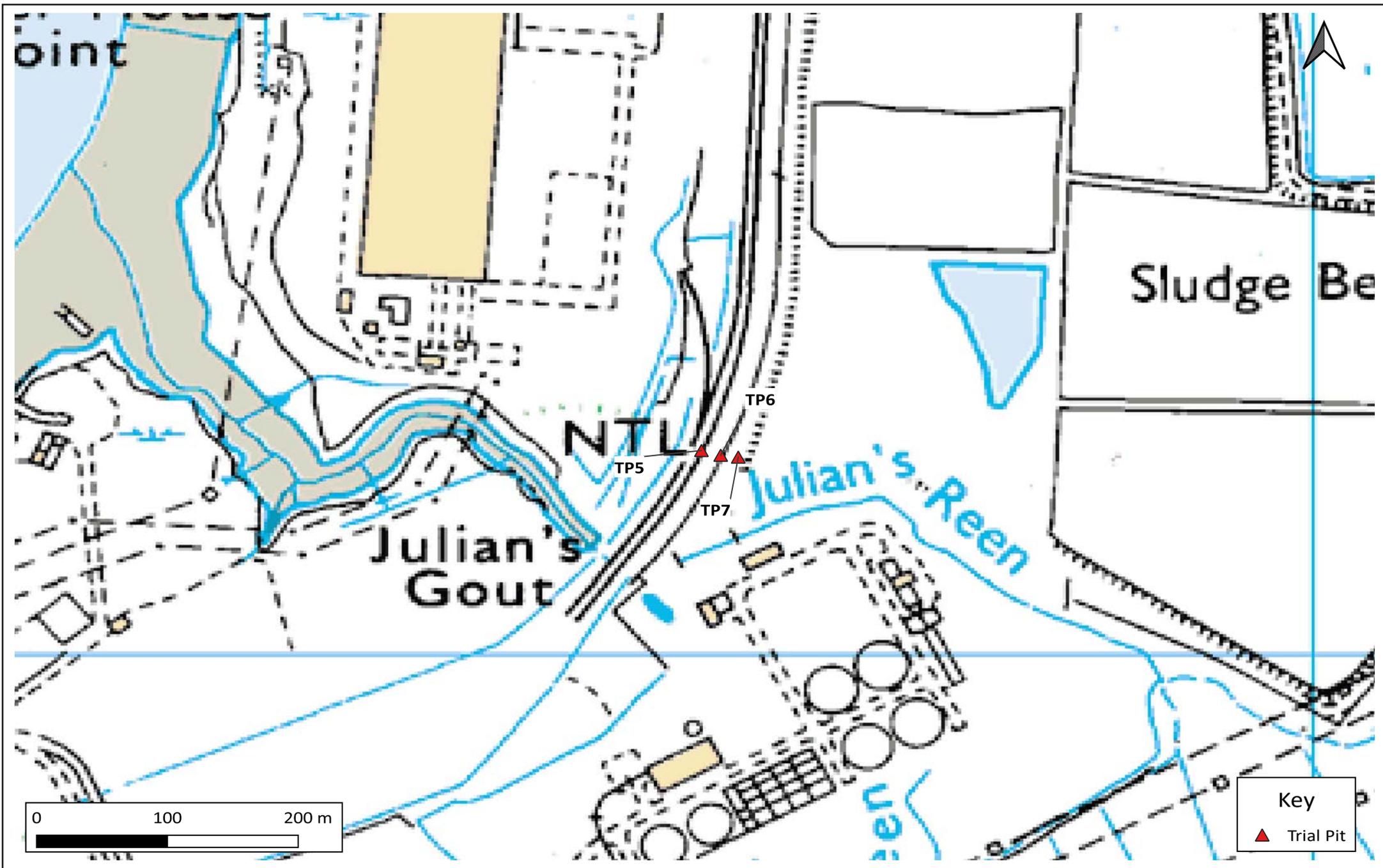


Figure 3. Location of Trial Pits: TP5, TP6 & TP7.



Plate 1. Plan shot of WS1a. Scale 0.3m



Plate 2. Plan shot of WS1b. Scale 0.3m



Plate 3. Plan shot of TP01a. Scale 0.3m.



Plate 4. Plan shot of TP01b. Scale 0.3m.



Plate 5. Plan shot of TP01c. Scale 0.3m.



Plate 6. Plan shot of TP02a. Scale 1m.



Plate 7. Plan shot of TP02b. Scale 1m.



Plate 8. Plan shot of TP03. Scale 1m.



Plate 9. Plan shot of TP04. Scale 1m.



Plate 10. Plan shot of TP05. Scale 0.3m.



Plate 11. Plan shot of TP06. Scale 0.3m.



Plate 12. Plan shot of TP07. Scale 0.3m.

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