

New Sewage Scheme at Tilbury, Grays, Essex Archaeological Watching Brief Report

November 2018

Client: Anglian Water Services

Site Code: THAW18

OASIS No: oxfordar3-329928

NGR: TQ 62504 77556 - TQ 62977 77238



New Sewage Scheme at Tilbury, Grays, Essex

Client Name: **Anglian Water Services**

Document Title: New Sewage Scheme at Tilbury, Grays, Essex

Report No.: 2267

Grid Reference: TQ 62504 77556 - TQ 62977 77238

Site Code: THAW18 Invoice Code: XEXTGT18

Receiving Body: Thurrock Museum OASIS No.: oxfordar3-329928

OA Document File Location: X:\Active Projects_Use KT\Essex\XEXTGT18_Grays Essex\Project

Reports

OA Graphics File Location: X:\Active Projects_Use KT\Essex\XEXTGT18_Grays Essex\Project

Data

1 Issue No:

November 2018 Date:

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New Sewage Scheme at Tilbury, Grays, Essex

Archaeological Wachting Brief Report

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Summary

Between the 5th and 8th of November 2018, Oxford Archaeology East (OA East) were commissioned to undertake a watching brief along the route of a new rising main in Tilbury, Grays, Essex (TQ 62504 77556 to TQ 62977 77238). No archaeological remains or artefacts were encountered during the monitoring works.



Acknowledgements

OA East would like to thank Amber Claughton of Anglian Water Services for commissioning this project. Thanks are also extended to Richard Havis who monitored the work on behalf of Essex County Council Historic Environment Team (ECC HET). The project was managed for OA East by the author and the fieldwork undertaken by Lindsey Kemp.



1 INTRODUCTION

1.1 Scope of work

- 1.1.1 OA East was commissioned by Anglian Water Services to undertake an archaeological watching brief on a new rising main which ran from the southern edge of Churchill Road in Tilbury (TQ 62804 77556; Plate 1) south-east to the edge of Tilbury's commercial zone (TQ 62977 77236). The route was approximately 370m long and passes through an area of known heritage assets (Fig. 1).
- 1.1.2 A Brief was set by Richard Havis of ECC HET (Havis 2018) and a Written Scheme of Investigation (WSI) was produced by OA East (Bush 2018) detailing the Local Authority's requirements.

1.2 Location, topography and geology

- 1.2.1 The site is located on the southern side of Tilbury, on land to the immediate west of Dock Approach Road (A1089) and just north of Tilbury Dock. It is around 1km northeast of the River Thames.
- 1.2.2 The proposed rising main is situated on a bedrock geology of Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation, with superficial alluvial deposits of clay, silt, sand and peat. The route cuts across a fairly flat meadow and is situated at between c.0.1m and 0.5m OD.

1.3 Archaeological and historical background

1.3.1 The following section provides a brief description of the known heritage assets in the vicinity of the proposed rising main, based on information obtained from the Essex Historic Environment Record (EHER). Pertinent heritage assets in the immediate vicinity are illustrated on Figure 1.

Prehistoric

- 1.3.2 A geoarchaeological assessment on the land to the immediate east revealed three peat horizons ranging in date from the Mesolithic through to the Early Iron Age period (EHER 48384).
- 1.3.3 A small number of findspots are also recorded within the environs of the site and consist of three Mesolithic flint scrapers (EHER 1774 and 47276) recovered from land 0.8km to the north and a cache of flintwork comprising nine axes, 97 retouched flakes, 10 unretouched flakes and one miscellaneous worked fragment (EHER 1780) from c.0.3km north-west of the site.

Post-medieval and modern

1.3.4 The rising main cuts through an area of known cropmarks (EHER 18882) containing WWII anti-aircraft ditches. These cropmarks cover an area approximately 180ha in size. Other WWII remains within the vicinity include a (now destroyed) spigot mortar (EHER 10268), where around 0.8km to the south-east and c.1km south-west on the



- bank of the River Thames are two basins for the construction of Mulberry Harbour caissons (EHER 10260).
- 1.3.5 The proposed rising main also cuts through one of the historic ditched trackways which lead from the gravel terraces down to the Thames foreshore. These are known to predate the post-medieval period but may be significantly older.
- 1.3.6 A trial trench evaluation (EHER 48692) undertaken approximately 0.8km west of the new rising main identified made ground to a depth of at least 1.2m below the modern ground level.

Undated

1.3.7 Beneath the residential development to the immediate east of the northern end of the water main, aerial photographs have recorded a circular ditched enclosure *c*.10m in diameter along with a circular mound with central depression (EHER 14568). These may have related to the WWII remains (see above).



2 EVALUATION AIMS AND METHODOLOGY

2.1 Aims

- 2.1.1 The general aim of the watching brief was to preserve by record any archaeological evidence revealed within the pipe trench. If archaeology was encountered, the investigation had the following aims:
 - i. Establish the form, date and purpose of any archaeological deposits
 - ii. Establish the impact of past land uses, and the possible presence of masking colluvial/alluvial deposits
 - iii. Recover artefacts to assist in the development of a type series within the region.

2.2 Methodology

- 2.2.1 Ground works associated with excavation of the rising main were monitored by a suitably qualified and experienced archaeologist, followed by the investigation and recording of all deposits revealed, where safe to do so.
- 2.2.2 Mechanical excavation was undertaken by a 13-ton 360° excavator using a 0.5m wide toothed bucket. The entire route of the rising main was excavated to a depth of 1.2m below the modern ground level.
- 2.2.3 Spoil arising from the ground penetrating works was scanned visually and with a metal detector to aid recovery of artefacts. The depth, nature and potential artefact content of deposits were also investigated and recorded.

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3 RESULTS AND CONCLUSIONS

- 3.1.1 No archaeological remains or artefacts were identified during the monitoring works.
- 3.1.2 Two layers of overburden were identified as overlying the natural alluvial blue grey clay geology. The upper layer, which varied in thickness from 0.25m to 0.7m, consisted of a mid grey silty clay containing high levels of modern debris including bricks and other building waste, curb stones, sections of old electric cabling and large pieces of plastic (Plate 2). This sealed a layer of very dark brown peat which measured 0.1m in thickness, which overlay the natural geology (Plate 3).
- 3.1.3 Overall it is clear that this location has been utilised in the past either for groundworks associated with the construction of the docks and industrial estate or as a general disposal area for modern debris. No evidence for the WWII remains recorded in the EHER were seen (see paragraph 1.3.4). The similar findings during an evaluation to the west (EHER 14568) which identified made ground to a depth of 1.2m would indicate that this entire area has been disturbed to a considerable depth.



APPENDIX A BIBLIOGRAPHY

Bush, L.	2018	New sewage scheme at Tilbury, Grays, Essex. Written Scheme of			
		Investigation. OA East. Unpublished			
Havis, R.	2018 Brief for archaeological monitoring and excavation on a new sewage				
		scheme at Tilbury, Grays, Essex. Essex County Council. Unpublished			



APPENDIX B OASIS REPORT FORM

Proje	ect Details	S										
OASIS Number		oxfordar3-329928										
Project Name		New Sewage Scheme at Tilbury, Grays, Essex										
Start of Fieldwork 5/11/			5/11/1	18			End of Fieldwork			8/11/18		
Prev	vious Work		No			F	Future Work		(No		
Proje	ect Refere	ence	Codes									
Site	Code		THAW:	THAW18			Planning App. No.			N/A		
HER	Number						Related Numbers			N/A		
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Pror	mpt			NPPF	NPPF							
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	e in Planni		ocess		nown/Not red	or	ded					
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Tech	niques us	ed (1	tick all t	hat ap	olv)							
	Aerial Photo				Grab-sampling					Remote Operated Vehicle Survey		
_	interpretation		•	_								
	Aerial Photo				Gravity-core					Full excavation (100%)		
	Annotated S	Sketch			☐ Laser Scanning					Open-area excavation		
	Augering		1.6		☐ Measured Survey					Targeted Trenches		
	Dendrochor				☐ Metal Detectors					Test Pits		
	Documenta				☐ Phosphate Survey					Topographic Survey		
	Environmen		mpiing	_	☐ Photogrammetric		•			Vibro-core		
	Fieldwalking Geophysical		21/		☐ Photographic Surv☐ Rectified Photogra				\boxtimes	Watching Brief		
ш	GCOphrysical	i Jui ve	. у		neetinea i noto	Бій	Pily					
Mon	ument	Peri	od				Ob	ect		Period		
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Pari			Tilbury					Land off Churchill Road Tilbury				
								Grays				
HER office Thurrock							Essex					
Size of Study Area 370m lo				_			RM17 6TW					
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77238												
Post of October 1												
Project Originators												
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, , ,				OA East								
Project Manager			Louise	Louise Moan								
Project Supervisor				Lindse	Lindsey kemp							

New Sewage Scheme at Tilbury, Grays, Essex

Project Archives

Physical Archive (Finds) Digital Archive Paper Archive

Location	ID
Thurrock Museum	THAW18
OA East	XEXTGT18
Thurrock Museum	THAW18

Physical Contents	Present?	Digital files associated with Finds	Paperwork associated with Finds
Animal Bones Ceramics Environmental Glass Human Remains Industrial Leather Metal Stratigraphic Survey Textiles Wood Worked Bone Worked Stone/Lithic None Other			
Digital Media Database GIS Geophysics Images (Digital photos) Illustrations (Figures/Plat Moving Image Spreadsheets Survey Text Virtual Reality		Paper Media Aerial Photos Context Sheets Correspondence Diary Drawing Manuscript Map Matrices Microfiche Miscellaneous Research/Notes Photos (negatives/prints) Plans Report Sections Survey	

Further Comments

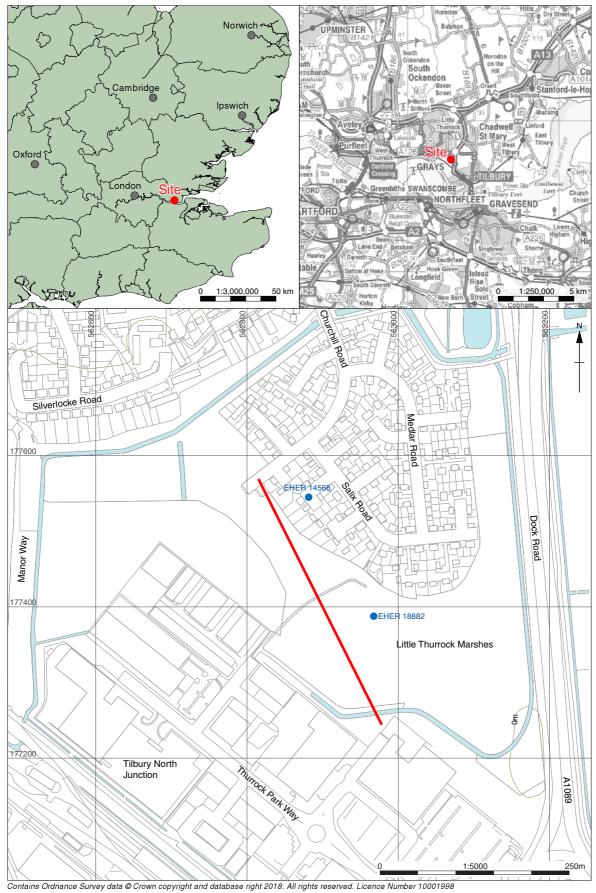


Figure 1: Site location showing route of new rising main (red)





Plate 1: View north-west into Churchill Road at the start of the pipe trench



Plate 2: View south-east down the pipe trench, with modern debris evident in the spoil





Plate 3: Section of pipe trench showing the peat layer



Plate 4: View north-west across backfilled pipe trench





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