

Technical design note

Project name	Land Adjacent Haldens Parkway, Thrapston, Northamptonshire		
Design note title	Site Condition Report to support a Deposit for Recovery Permit Application		
Document reference	Report Reference 23880-HYD-XX-XX-RP-GE-5001-S1-P01		
Author	Eric Cooper MSc C.Geol. SiLC		
Revision	02		
Date	8 August 2023	Approved	<input type="checkbox"/>

1. Context and Objectives

Equites Newlands (Thrapston East) Limited (Newlands) intends developing an approximate 75 ha (185 acre) site, located to the north of the A14 on the eastern edge of Thrapston, Northamptonshire, for logistical warehousing. The earthworks required to create the development platform will involve the recovery of waste from the Rectory Farm Landfill (permit now surrendered) and its re-use to form landscaped bunds. These works will be carried out by Mick George Limited under contract to Newlands.

The works will be regulated under a Deposit for Recovery Permit (DfR) issued to Mick George Earthworks Limited by the Environment Agency (EA).

This Site Condition Report has been prepared to accompany an application by Mick George Earthworks Limited to the EA for the DfR permit required. More specifically it is submitted in response to Question 5b of Application Form Part B2 -General.

The presentation format accords with the template available at:

<https://www.gov.uk/government/publications/environmental-permitting-h5-site-condition-report>.

2. Drawings

The following drawings are attached at Appendix A:

- » 261190_DFR_5A-DfR Site Plan
- » 18443-HYD-XX-ZZ-DR-GE-1001: Site Location Plan
- » 18443-HYD-XX-ZZ-DR-GE-1003: Site Features Plan (undeveloped conditions)
- » 18443-HYD-XX-ZZ-DR-GE-1028 Landscape Bund Layout (bund footprint is Deposit for Recovery Area)
- » 18443-HYD-XX-ZZ-DR-GE-1034_S2-P01_Cross-sections_Bund
- » HRT-pHp-01-XX-DR-A-4432-012-P18: Development Proposals (indicative masterplan for illustrative purposes only)

3. Site Condition Report (Completed Template)

1.0 SITE DETAILS	
Name of the applicant	Mick George Earthworks Limited
Activity address	Land Adjacent Haldens Parkway, Thrapston, Northamptonshire Titchmarsh Road Thrapston Northamptonshire NN14 4NJ
National grid reference	501800E, 278350N
Document reference and dates for Site Condition Report at permit application	Report Reference 23880-HYD-XX-XX-RP-GE-5001-S1-P01
Document references for site plans (including location and boundaries)	<p>The following drawings are attached at Appendix A:</p> <ul style="list-style-type: none"> » 18443-HYD-XX-ZZ-DR-GE-1001; Site Location Plan » 18443-HYD-XX-ZZ-DR-GE-1003 Site Features Plan: undeveloped (current) conditions » HRT- pHP-01-XX-DR-A-4432-012-P18 Development Proposals (masterplan) » 18443-HYD-XX-ZZ-DR-GE-1028 Landscape Bund Layout (bund footprint is Deposit for Recovery Area) » 18443-HYD-XX-ZZ-DR-GE-1034_S2-P01_Cross-sections_Bund
2.0 Condition of the land at permit issue	
Environmental setting including: <ul style="list-style-type: none"> » geology » hydrogeology » surface waters 	<p>Geology</p> <p>(Further details are presented in reports referenced at 2.0 (Supporting Information) below)</p> <p>The natural geology is glacial drift, including glacio-fluvial deposits (sand and gravel) overlying a stratified sequence of Jurassic strata. It was the sand and gravel that was exploited by the quarry to create the void that was backfilled with waste.</p> <p>The natural geological sequence in the area that is beneath and potentially within influential distance of the landfill is:</p> <ul style="list-style-type: none"> » Glacial Till (Oadby Member), comprising grey or brown clay with subordinate lenses of sand and gravel; and » Glaciofluvial Deposits comprising sands and gravels. <p>These superficial deposits overlie the solid geology, which comprises:</p> <ul style="list-style-type: none"> » Oxford Clay Formation, comprising silicate mudstone with sporadic beds of limestone; over

2.0 Condition of the land at permit issue	
	<ul style="list-style-type: none"> » Kellaways Sand Member comprising silicate sandstone and siltstone, pale grey with interbeds of sandy and silty mudstone; over » Kellaways Clay Member outcropping in the south, centre and north-west of the site, comprising grey mudstone; over » Cornbrash Limestone Formation, comprising fine grained, bluish grey, weathering olive or yellow brown limestone; over » Blisworth Clay Formation, comprising silicate mudstone, grey with frequent fossils, rootlets and ironstone nodules; over » Blisworth Limestone Formation, comprising pale grey or off-white yellowish limestone; over » Rutland Formation, comprising grey mudstone and siltstone; over » Stamford Member, comprising grey to yellowish and white sandstone or siltstone. <p>Hydrogeology</p> <p>(Further details are presented in reports referenced at 2.0 (Supporting Information) below)</p> <p>The Glaciofluvial Deposits, Kellaways Sand Member and the Cornbrash Formation are classified as 'Secondary A' aquifers. The Oadby Member is classified as a 'Secondary Undifferentiated' aquifer. The Blisworth Limestone Formation is classified as a 'Principal' aquifer. The Oxford Clay Formation, Kellaways Clay Member and Blisworth Clay Formation are classified as unproductive strata. Each of the other geological units are noted as 'Unproductive Strata'.</p> <p>The site is not within a Source Protection Zone and there are no active licensed groundwater abstractions within 1km of the site.</p> <p>There is unconfined groundwater present in the landfill as leachate, which was recorded by Hydrock at depths between 0.12m (64.31m OD) and 4.03m (55.58m OD) with a groundwater flow direction towards the north-east.</p> <p>Off the landfill site to the north east, groundwater is present in the more permeable Kellaways Sand formation, the Cornbrash Formation and the Blisworth Limestone Formation. These units are separated by lower permeability units comprising the Kellaways Clay and the Blisworth Clay. The concept is of a layered sequence of aquifers and aquicludes.</p> <p>Surface Waters</p> <p>A series of ditches are present in the land east and north east of the landfill, which coalesce to join Polopit Brook. Under current conditions these ditches are normally dry and only flow after rainfall and are not supported by noticeable baseflow. All flow eventually joins the river Nene.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> » pollution incidents that may have affected land » historical land-uses and associated contaminants » any visual/olfactory evidence of existing contamination 	<p>Pollution incidents that may have affected land</p> <p>Table 2.9 Section 2.11 of the desk study referenced below in Supporting Information notes:</p> <ul style="list-style-type: none"> » no Local Authority Pollution Prevention and Controls within 500m of the site boundary; » there is a record of a minor pollution incident 81m south west of the site boundary; » there are no records of pollution incidents on the site itself. <p>Historical land-uses and associated contaminants</p>

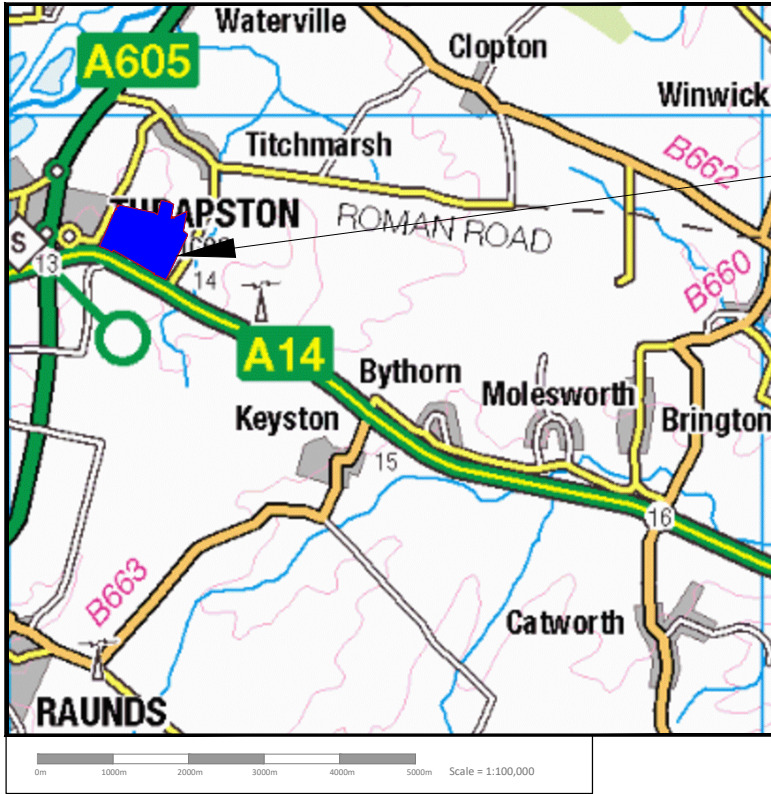
2.0 Condition of the land at permit issue	<ul style="list-style-type: none"> » evidence of damage to pollution prevention measures <ul style="list-style-type: none"> » the most significant potentially contaminative use is the Rectory Farm Landfill, the recovery of which is the subject of the DfR permit application to which this SCR relates; » most of the rest of the site is greenfield farm land with minor contaminative use associated with farm buildings and some very old stone pits. <p>Any visual/olfactory evidence of existing contamination</p> <p>None</p> <p>Evidence of damage to pollution prevention measures</p> <p>There are no pollution prevention measures present at the site.</p>
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	<p>The Hydrock Ground Investigation Report. (Geo-environmental Interpretation) referenced below reports that, for the site as a whole, laboratory results recorded the majority of chemicals of potential concern (CoPC) at concentrations below the relevant GACs for a commercial land use.</p> <p>There are no remediation and verification reports applicable to the site.</p>
Baseline soil and groundwater reference data	<p>All relevant data are contained in:</p> <ul style="list-style-type: none"> » Appendix C: <p>Hydrock, 09 December 2023. Land adjacent Haldens Parkway, Thrapston. Ground Investigation Report. Geo-environmental Interpretation. Report. Ref 18443-HYD-XX-XX-RP-GE-1005.</p>
Supporting Information	<p>Source information identifying environmental setting and pollution incidents</p> <p>The following reports are attached as supporting information:</p> <ul style="list-style-type: none"> » Appendix B: <p>Hydrock, 31 January 2022. Land adjacent Haldens Parkway, Thrapston. Desk Study Report. Ref 18443-HYD-XX-XX-RP-GE-1002.</p> <ul style="list-style-type: none"> » Appendix C: <p>Hydrock, 09 December 2023. Land adjacent Haldens Parkway, Thrapston. Ground Investigation Report. Geo-environmental Interpretation. Report. Ref 18443-HYD-XX-XX-RP-GE-1005.</p> <ul style="list-style-type: none"> » Appendix D: <p>Hydrock 23 August 2022. Rectory Farm (Thrapston) Landfill (EPR/BT9879IY) Hydrogeological Risk Assessment Review. Report. Ref 23880-HYD-XX-XX-RP-GE-0003.</p> <p>Historical Ordnance Survey plans</p> <p>Included in Appendix C of Desk Study report referenced above.</p> <p>Site reconnaissance</p> <p>Presented in Section 2.3 of Desk Study report referenced above.</p> <p>Historical investigation, assessment, remediation, verification reports</p> <ul style="list-style-type: none"> » Investigation

2.0 Condition of the land at permit issue	
	<p>Ground Investigation Report referenced above</p> <ul style="list-style-type: none"> » Assessment <p>Ground Investigation Report referenced above</p> <ul style="list-style-type: none"> » Remediation <p>Not applicable</p> <ul style="list-style-type: none"> » Verification <p>Not applicable</p>

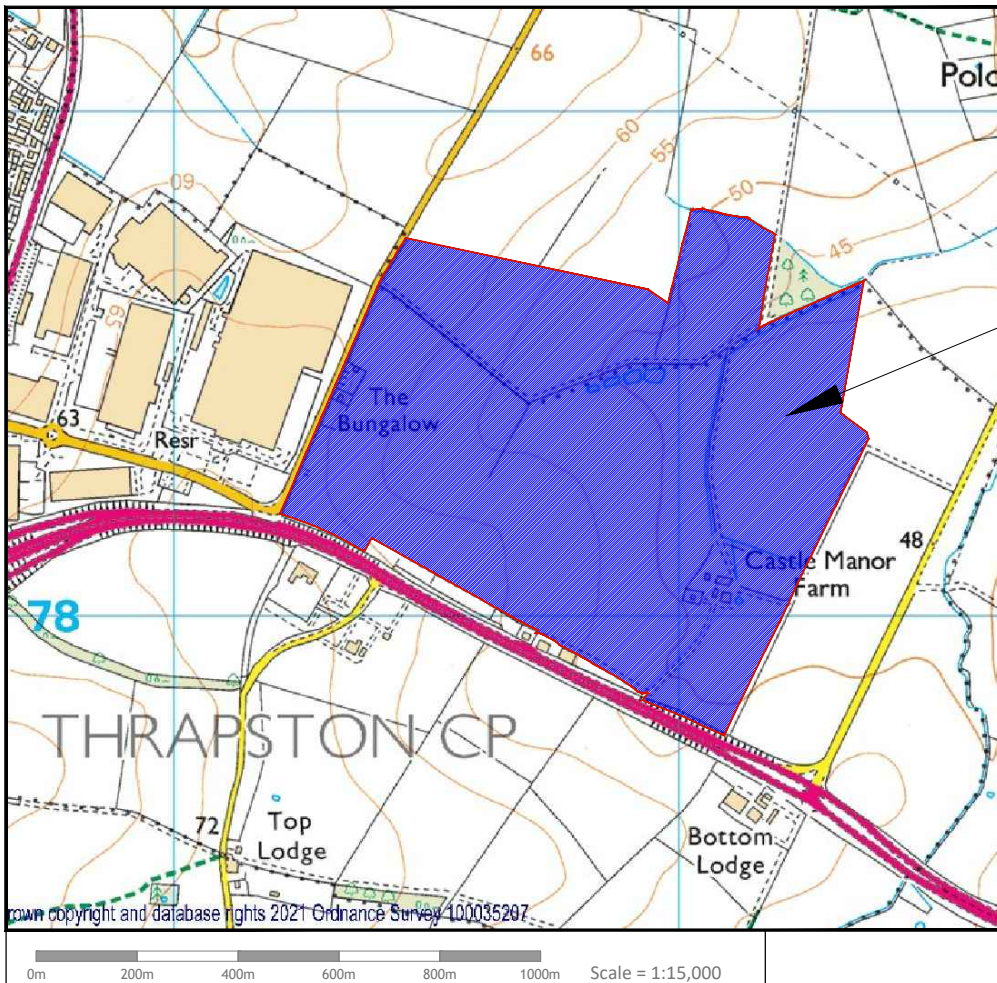
3.0 Permitted Activities

<p>Permitted activities</p>	<p>Bespoke, site-specific Deposit for Recovery permit, to allow the recovery and re-use of materials from the Rectory Farm Landfill to create landscape bunds in accordance with the planning permission for the development.</p> <p>Additionally, the permit will allow stabilisation/solidification, screening/blending and hand picking.</p> <p>Separately a Mobile Plant Permit will be deployed to excavate and segregate all Secondary Materials.</p>
<p>Non permitted activities to be undertaken</p>	<p>Primary and other non-waste materials will be re-used in accordance with a Materials Management Plan prepared in accordance with the DoWCoP</p>
<p>Document references for:</p> <ul style="list-style-type: none"> » plan showing activity layout; and » environmental risk assessment. 	<p>Plan</p> <p>Drawing references:</p> <ul style="list-style-type: none"> » 18443-HYD-XX-ZZ-DR-GE-1028 Landscape Bund Layout (bund footprint is Deposit for Recovery Area) at Appendix A; » 18443-HYD-XX-ZZ-DR-GE-1034_S2-P01_Cross-sections_Bund <p>Environmental Risk Assessment</p> <ul style="list-style-type: none"> » Hydrock Report reference 18443-HYD-XX-XX-RP-GE-1002-S2-P05; Land adjacent Halden's Parkway, Thrapston. Desk Study Report. » Hydrock Report reference 18443-HYD-XX-XX-RP-GE-1005-S2-P07; Land adjacent Halden's Parkway, Thrapston. Ground Investigation Report. Geo-environmental Interpretation. » Hydrock Report reference 18443-HYD-XX-XX-RP-GE-3003-S2-P01; Land adjacent Halden's Parkway, Thrapston. Detailed Quantitative Risk Assessment for Impact of Recovered Waste on Controlled Waters.

Appendix A Drawings



THE SITE



THE SITE

PO3	Client Name Updated					
	NT	15.12.21	NT	15.12.21	AB	15.12.21
PO2	FIRST ISSUE					
	SD	08.11.21	NT	08.11.21	AB	08.11.21
PO1	REVISION NOTES/COMMENTS					
	SD	16.08.21	NT	16.08.21	AB	16.08.21
REV.	DRAWN BY					
	DATE	CHECKED BY	DATE	APPROVED BY	DATE	
<p>Hawthorn Park Holdenby Road Sparton Northampton NN6 8LD TEL: 01604 842 888 E-Mail: northampton@hydrock.com or visit www.hydrock.com</p>						
CLIENT						
Equites Newlands (Thrapston East) Limited						
PROJECT						
LAND ADJACENT HALDENS PARKWAY THRAPSTON						
TITLE						
SITE LOCATION PLAN						
HYDROCK PROJECT NO. C-18443-C			SCALE @ A4 See Drawing			
PURPOSE OF ISSUE SUITABLE FOR INFORMATION					STATUS S2	
DRAWING NO. (PROJECT - ORIGINATOR VOLUME LEVEL TYPE ROLE NUMBER) 18443-HYD-XX-ZZ-DR-GE-1001					REVISION PO3	

Areas Schedule										Parking and docks - figures quoted are minimum, plots may allow additional.					Plot Areas	
Plot No.	Warehouse GIA SQFT	Warehouse GIA SQM	Offices GIA SQFT	Offices GIA SQM	Hub Office SQFT	Hub Office SQM	Total GIA SQFT	Total GIA SQM	Car Parking @1/120sqm	HGV Parking	Docks	Level Access	cycles	PTWs	Plot Areas	
1	500000	46451	25000	2323	10000	929	535000	49704	414	142	68	8	100	16	11.061 ha / 27.09 acres	
2	360000	33445	15000	1394	5000	465	380000	35304	294	85	48	8	70	12	8.145 ha / 20.13 acres	
3	594000	55184	25000	2323	10000	929	629000	58436	487	201	72	8	117	18	13.130 ha / 32.44 acres	
4	550000	51097	25000	2323	10000	929	585000	54348	454	202	72	8	109	17	13.043 ha / 32.23 acres	
Total	2,004,000	186,177	90,000	8,363	35,000	3,252	2,129,000	197,790	1649	630	260	32	396	63		



- Existing Farm Track retained
 - Re-routed Farm Track
 - Existing Farm Track to be removed
 - Potential Greenway Route
 - Proposed on-site Permissive Route
 - Potential off-site Permissive Route
- Revisions:
- | | | | |
|-----|--|----------|----|
| P14 | Permissive Routes added | 04.01.22 | RG |
| P15 | Update to correct parking no. discrepancy | 06.01.22 | RG |
| P16 | Status updated to Planning | 17.01.22 | RG |
| P17 | Minor correction to rounding within Areas stated | 31.01.22 | RG |
| P18 | Foul Pumping Station added. | 03.02.22 | RG |

newlands
developments

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pHp
architects

**HUNTINGDON ROAD
THRAPSTON**

**INDICATIVE MASTERPLAN
AND PLOT 1 DETAILS**

Status	PLANNING
Drawn by :	RG
Checked by :	RM
Date	01/04/2021
Document Number:	HRT-PHP-01-XX-DR-A-4432-012-P18
Scale @ A1	1:2000

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This drawing, the works and concepts depicted are copyright of the consultant and may not be reproduced or made use of, either directly or indirectly without express written consent. All heights, levels, sizes and dimensions to be checked on site before any work is put to hand.



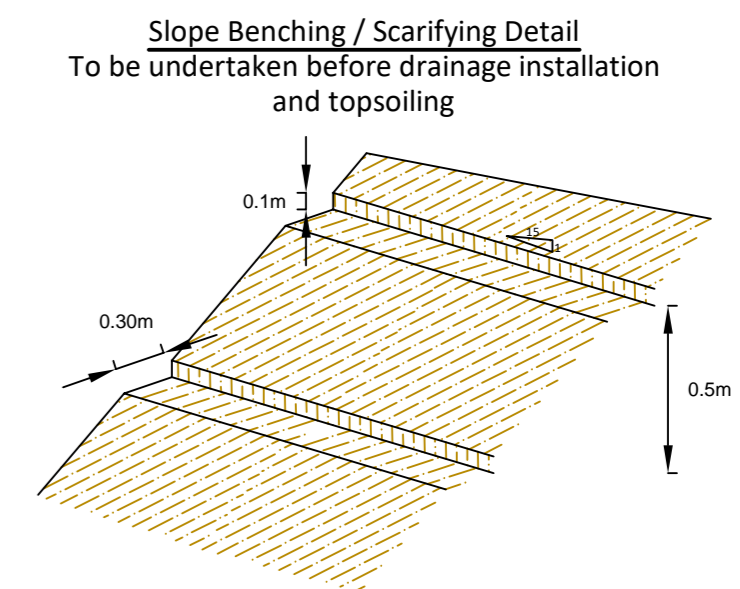
Indicative Extents of Geocomposite Drainage in Landscape Bund



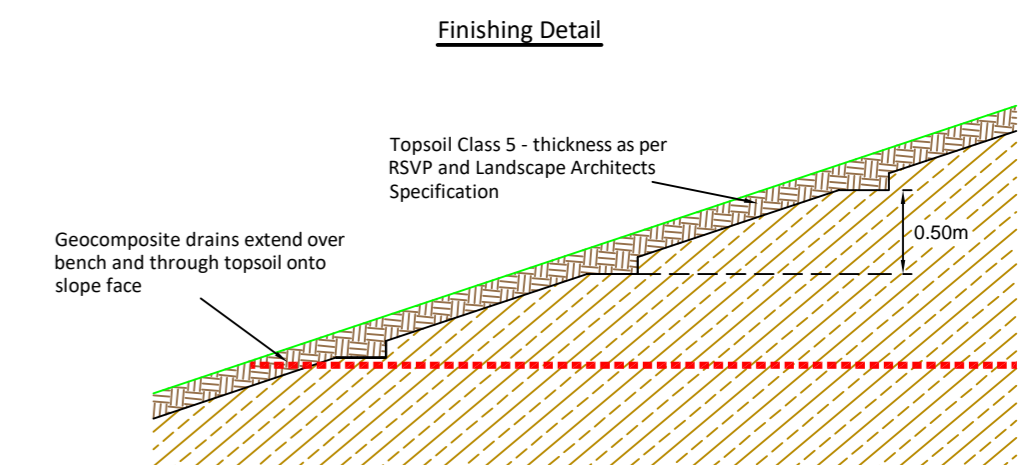
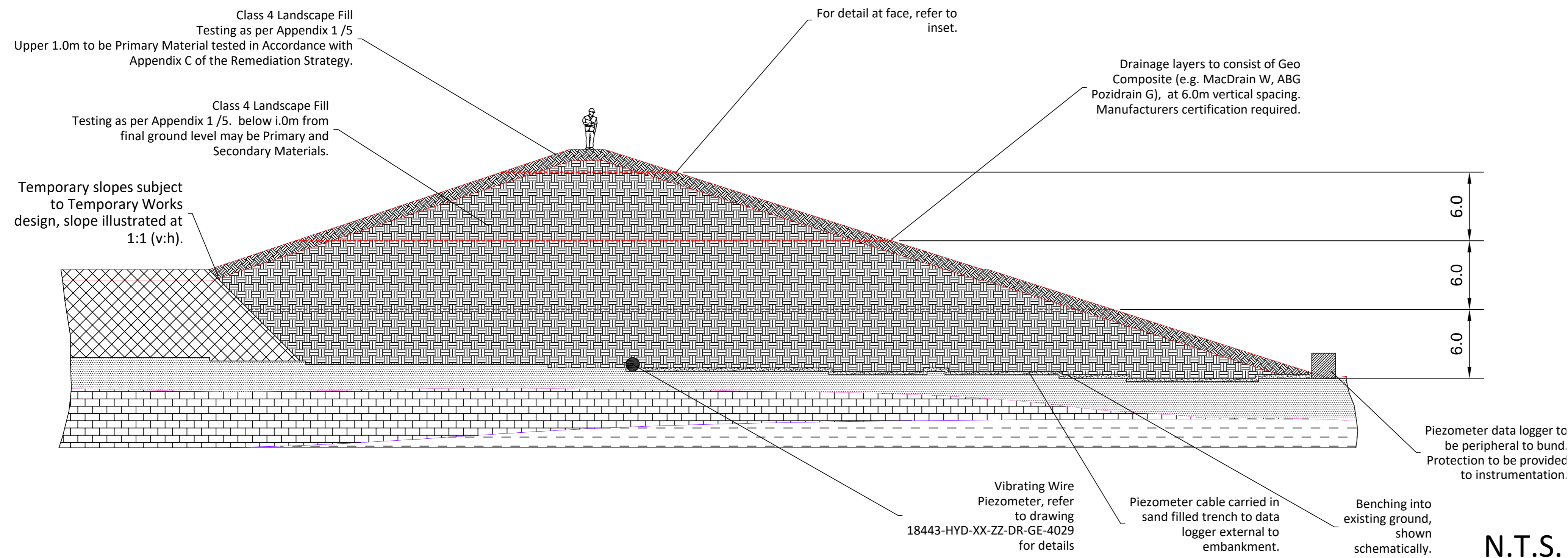
- Bund 6 - 12m - 1 layer of geocomposite drainage
- Bund 12 - 18m - 2 layers of geocomposite drainage
- Bund 18m + 3 layer of geocomposite drainage

SCALE 1:4000

Inset



Schematic Landscape Bund Construction



N.T.S.

N.T.S.

KEY	
	Class 4 Landscape Fill
	Class 7 Selected Fill
	Glaciofluvial Deposits
	Blisworth Limestone
	Rutland Formation
	Geocomposite Drainage

NOTES

- All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.
- This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.
- This drawing has been based on the following drawings and information: 11686a-0, Proposed Plateau and Bund Levels, 15/06/21.

Hydrock

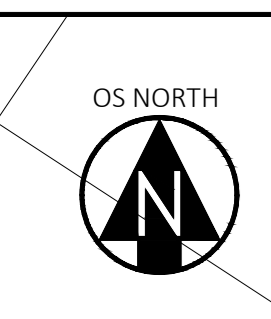
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CLIENT
EQUITIES NEWLANDS (THRAPSTON EAST) LIMITED

PROJECT
HALDEN PARKWAY, THRAPSTON

TITLE	
LANDSCAPE BUND CONSTRUCTION	
HYDROCK PROJECT NO. 18443	SCALE @ A1 AS SHOWN
PURPOSE OF ISSUE SUITABLE FOR INFORMATION	STATUS S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 18443-HYD-XX-XX-DR-GE-1028	REVISION P1

REV.	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
P1	RB	04/05/22	AB	04/05/22		
REVISION NOTES/COMMENTS						



KEY

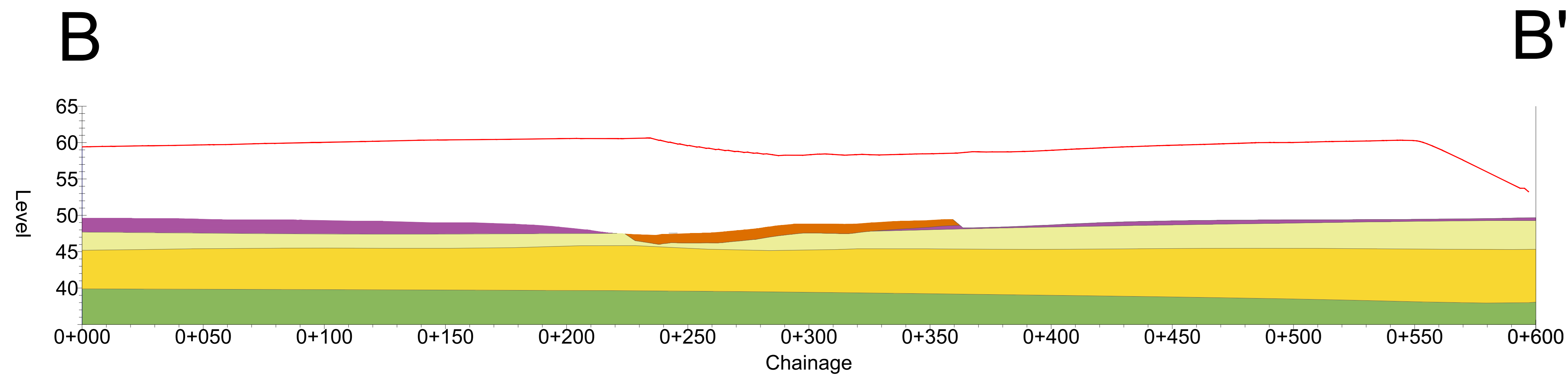
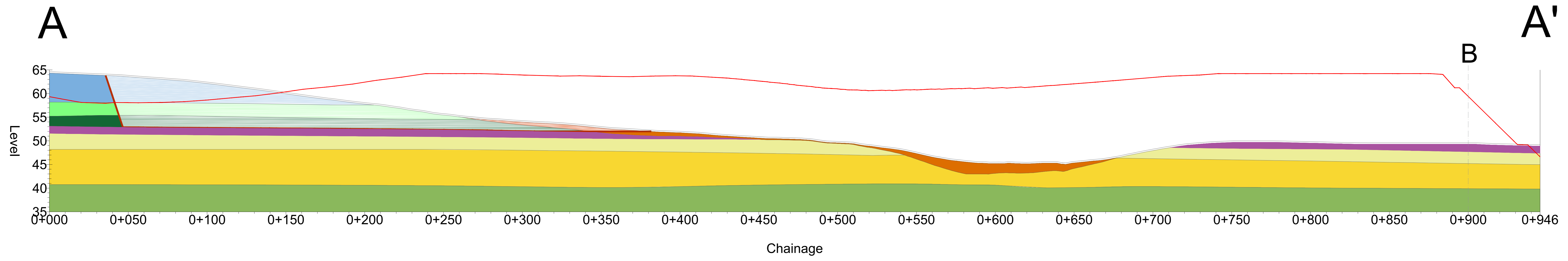
	Site Boundary (approximate)
	Landfill (approximate)
	Drainage ditch (direction of flow)
	Old Stone Pits (approximate) Historical 1885
	Slope of contours
	Higher levels
	Lower levels

NOTES

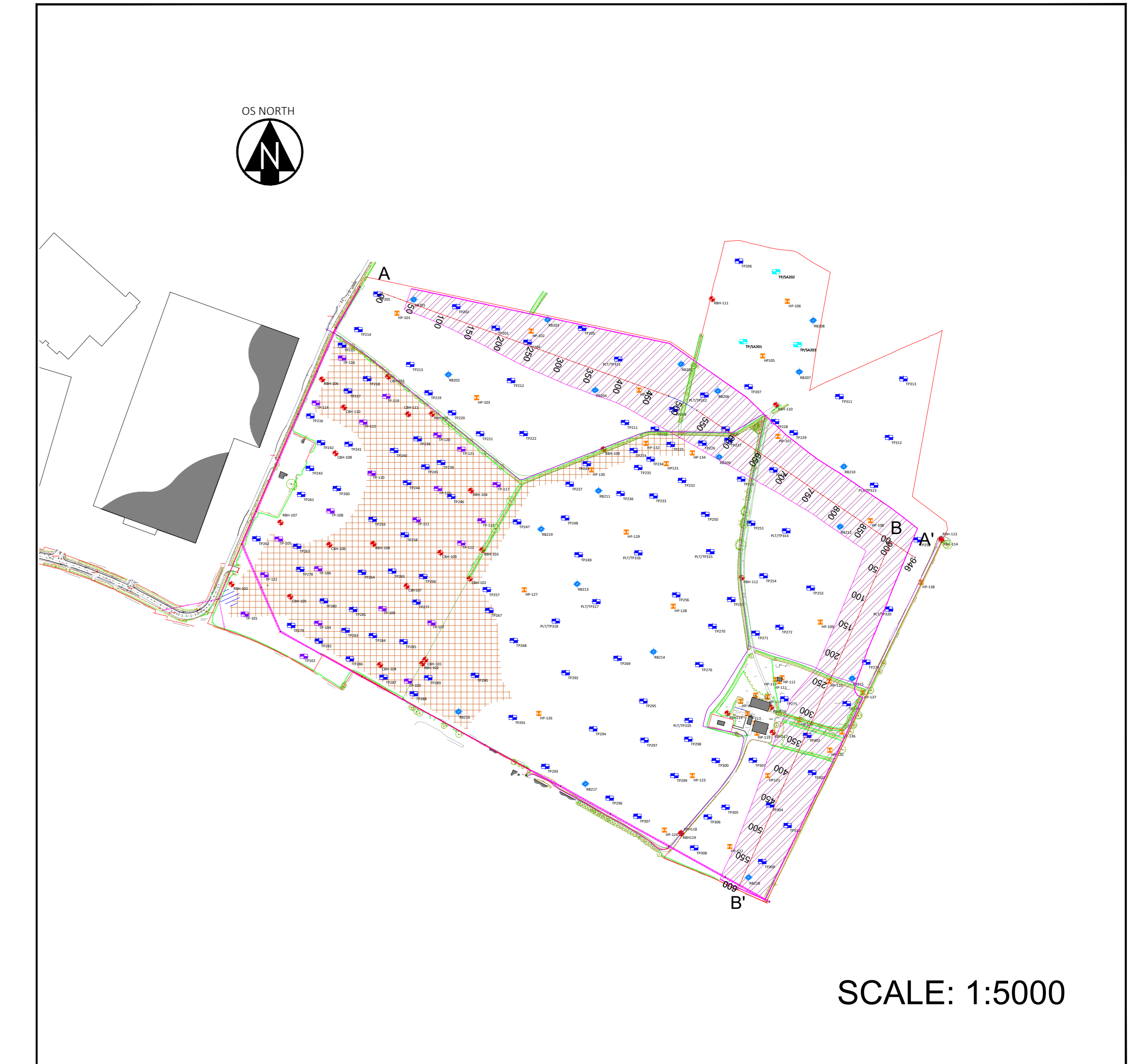
- All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figure dimensions only are to be taken from this drawing.
- This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.
- This drawing has been based on the following drawings and information:
- This drawing has been based on the Statutory Drawing: 'Huntingdon Road, Thrapston. Topographic Survey', Ref: 11521a-0, dated 10/03/21.

 Headroom Park Holdenby Road Northampton NN6 8LD t: +44 (0) 1604 842888 e: northampton@hydrock.com or visit www.hydrock.com		TITLE SITE FEATURES PLAN	
CLIENT EQUITES NEWLANDS (THRAPSTON EAST) LTD		HYDROCK PROJECT NO. C-18443	
PROJECT LAND ADJACENT TO HALDEN PARKWAY, THRAPSTON		SCALE @ A0 1:1500	
PURPOSE OF ISSUE SUITABLE FOR INFORMATION		STATUS S2	
DRAWING NO. 18443-HYD-XX-ZZ-DR-GE-1003		REVISION P03	

CLIENT UPDATED NT 15/12/21 AB 15/12/21 AB 15/12/21		CLIENT EQUITES NEWLANDS (THRAPSTON EAST) LTD	
SITE BOUNDARY UPDATED SD 08/11/21 NT 08/11/21 AB 08/11/21		PROJECT LAND ADJACENT TO HALDEN PARKWAY, THRAPSTON	
PROB ISSUE SD 16/08/21 NT 16/08/21 AB 16/08/21		PURPOSE OF ISSUE SUITABLE FOR INFORMATION	
REVISION/NOTES/COMMENTS DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE		DRAWING NO. 18443-HYD-XX-ZZ-DR-GE-1003	



3x vertical exaggeration



- Glacial Till + Glaciofluvial deposits
- Kellaways Sand
- Kellaways Clay
- Cornbrash Limestone
- Blisworth Clay
- Blisworth Limestone
- Rutland Formation
- Head deposits
- Made Ground
- Proposed ground level
- Overexcavation under landscape bund

KEY

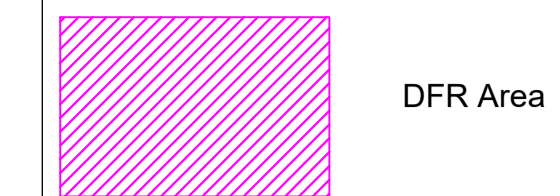
- Site Boundary (approximate)
- Trial Pit
- Cable Percussion Borehole
- Rotary Percussion / Core Borehole
- Hand Dug Excavation Pit

NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figures/dimensions only are to be taken from this drawing.
2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.
3. This drawing has been based on the following drawings and information:
StaSurv Drawing 'Huntington Road, Thrapston, Topography Survey', Ref: 11521a-0, dated 10/03/21
4. Surfaces have been created using Hydrock Site Investigation data (July 2021 and December 2021). Levels and depths are accurate at investigation locations. Between investigation locations, levels and depths have been extrapolated and are indicative only.

		Heatham Park Hollinby Road Sparton Northampton NN6 8LD t: +44 (0) 1604 842888 e: northampton@hydrock.com or visit www.hydrock.com	
CLIENT		EQUITES NEWLANDS (THRAPSTON EAST) LTD	
PROJECT		LAND ADJACENT HALDENS PARKWAY THRAPSTON	
PURPOSE OF ISSUE		SUITABLE FOR INFORMATION	
DRAWING NO. / PROJECT CODE / ORIGINATOR / DATE / TYPE / ROLE / NUMBER		18443-HYD-XX-ZZ-DR-GE-1034	
HYDROCK PROJECT NO.		SCALE @ A0	
C-18443		1:1250 or as shown	
STATUS		S2	
REVISION		P01	

Legend



All waste to transit treatment area regardless of whether treatment is required

Red Line Boundary

Combined swale and bund to prevent run off from treatment area. Water to be captured, tested and treated with carbon filter or other means to remove contaminants, then used as dust suppression

Area of waste soils for remediation

Excavators to load materials separately into trucks.

Site access / egress with 24Hr security

Exit gate

Ditch plugged

Crushing area

Screening area

Sorting of oversized by excavator

Access gate

Quarantine area for non conforming materials. Materials to be removed to an MG facility for treatment or disposal.

Exit gate



SURFACE LEVEL DATA

NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
1	-0.35	0.00	Grey
2	0.00	0.50	Dark Green
3	0.50	1.00	Light Green
4	1.00	2.00	Yellow-Green
5	2.00	3.00	Yellow
6	3.00	5.00	Orange
7	5.00	9.00	Red
8	9.00	11.00	Dark Red

Made Ground - Landfill waste management license

Total Volume = 597,530m³

I2 02.08.23 For Information

I1 28.07.23 For Information

Rev Date Description

MICK GEORGE
 6 LANCASTER WAY
 ERMINE BUSINESS PARK
 HUNTINGDON
 CAMBRIDGESHIRE
 PE29 6XU
 Tel : 01480 498099 Fax : 01480 498077
 www.mickgeorge.co.uk

Client:

Project Title:
 Land Adjacent to Halden Parkway
 Thrapston

Drawing Title:
 DFR location plan

Drawn : MM - GC Approved : GC

Date : 28.07.23 Scale : NTS

Drawing Number: 261190/DFR/5A Paper size: A1 Rev: I2

Appendix B Desk Study Report. Ref 18443- HYD-XX-XX-RP-GE-1002

Appendix C Ground Investigation Report.
Geo-environmental
Interpretation. Report. Ref 18443-
HYD-XX-XX-RP-GE-1005

Appendix D Hydrogeological Risk Assessment Review. Report. Ref 23880-HYD-XX-XX-RP-GE- 0003