

SITE SPECIFIC FLOOD RISK ASSESSMENT

Alington Estate, Little Barford, Bedfordshire

The Executors of the Late Nigel Alington

June 2021

Project no: 60830 Rev A



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1. INTRODUCTION

- 1.1. Richard Jackson Ltd (RJ Ltd) has been commissioned by The Executors of the Late Nigel Alington to undertake a Site Specific Flood Risk Assessment (SSFRA) in support of a development site in Little Barford see Figure 1 for the extents of the assessment.
- 1.2. The SSFRA will be completed in accordance with the National Planning Policy Framework (NPPF), Planning Practice Guidance (PPG) on Flood Risk and Coastal Change and the Bedfordshire Borough Council (BBC), Lead Local Flood Authority (LLFA) Guidance and Sustainable Drainage Supplementary Planning Policy dated Feb 2018, where applicable. Additional guidance will be sought from the Environment Agency (EA) where applicable. The LLFA for this site will be BBC.
- 1.3. The copyright of this report is vested in Richard Jackson Limited. The client or their appointed representatives may copy this report for the purposes in connection with the development described herein. It shall not be copied or distributed in any other form by any other party or used for any other purpose without the written consent of Richard Jackson Limited.

2. DEVELOPMENT SITE AND LOCATION

- 2.1. The site is bound by the River Great Ouse to the West and to the north the boundary of the site is the RWE power station. To the south, the site has a boundary as indicated on Figure 1 which is the extent of the land ownership. To the east is the East Coast Main Line (ECML) railway.
- 2.2. This location as highlighted on Figure 1, has an approximate Ordnance Survey midpoint of 518356E, 256536N and Postcode PE196YD.
- 2.3. The existing site comprises of agricultural land, farm buildings, a church and some residential dwellings of the agricultural estate.
- 2.4. The topographical survey data is shown on Drawing 60830-PP-012, which shows ground levels of the site by contours and the site falls from the east to the west, where levels are approximately 24.0m to 24.5m Above Ordnance Datum (AOD) alongside the ECML to a level of 14.5m to 15.0m AOD in the west alongside the Great River Ouse, thus the site has a gradient of ranging from approximately 1 in 49 to 1 in 163 from east to west.
- 2.5. The current land has a higher land classification of "More Vulnerable" according to Table 2: Flood Risk Vulnerability Classification guidance in the Flood Risk and Coastal Change on the 'Gov.uk' website and planning policy data. More vulnerable uses are listed as appropriate development for Flood Zones 1 & 2, see Table 3: Flood Risk Vulnerability and Flood Zone Compatibility, to which this site lies refer to the flood map for planning in Appendix A.

3. DEVELOPMENT PROPOSALS

- 3.1. The site is proposed for a change of use from mainly agricultural land uses and associated housing to residential and employment with some mixed use on the site.
- 3.2. The proposed uses have a higher flood risk classification of "More Vulnerable" which is the same as the highest classification for the existing uses, thus in

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reality there is no change in flood risk classification. The anticipated design life of this development will be 100 years.

4. SEQUENTIAL TEST

- 4.1. As this site is located in Flood Risk Zone (FRZ) 1 and 2 the sequential test for the flood risk areas will be considered and development outside of FRZ 2 will be applied.
- 4.2. FRZ1 which is considered to be at very low risk to fluvial and/or tidal flooding as well as being at low risk of surface water flooding (refer to Section 6 for more detail), will be the appropriate development areas and thus the Sequential Test has been applied to the potential development areas of the site.

CLIMATE CHANGE

- 5.1. Climate change over the next 100 years or so is predicted to increase the probability of surface water flooding, as peak rainfall is predicted to significantly increase. Therefore, it is proposed to factor in a 40% climate change allowance, in accordance with the PPG on rain fall intensity for developments of a design life of 100 years and also the LLFA guidance.
- 5.2. In terms of the climate change allowances for the impacts on Fluvial Flooding, reference is made to the details provided by the Environment Agency (EA) which can be found in Appendix B. This data suggests that for sites classified as "More Vulnerable", as this site, an "upper end" allowance should be considered for climate change which is indicated as 65% for the Anglian River Basin District and for the lifetime of the development. This percentage will be used to calculate the River Great Ouse flood levels with climate change added.

SITE SPECIFIC FLOOD RISK ASSESSMENT

- 6.1. The 'Gov.uk' website flood mapping for this site has been reviewed and other sources of flood information including data from BCC, the EA and Internal Drainage Board (IDB) Bedford Group.
- 6.2. There are five main sources of flooding that have the potential to affect development and therefore must be assessed for their potential to flood the development and to increase the risk of flooding to others. The main sources of flooding that need to be considered are as follows:
 - Fluvial and/or tidal flooding;
 - Overland surface water flooding;
 - Overloading of the existing drainage network;
 - Ground water flooding; and
 - Artificial flood sources.

Fluvial and Tidal Flooding

6.3. Fluvial and tidal flooding occurs when the natural capacity of a river system or sea defence (natural or manmade) is reached. The site is located within FRZ 1 and 2 (as shown on mapping in Appendix A) and abuts the River Great Ouse to the west, with eastern parts of the site being in FRZ 1. An indication of the associated flood mapping is shown on Figure 2.

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- 6.4. To understand the local responsibilities or watercourses in the area of the site an assessment of the BBC Areas of Responsibilities, mapping, has been considered. See **Appendix C** for details.
- 6.5. An assessment of the local watercourses and rivers has indicated that the River Great Ouse is a main river as classified by the Environment Agency and the mapping extract can be seen in **Appendix C**.
- 6.6. An assessment of the watercourses locally has concluded that the site is outside the area controlled by the IBD, Bedford Group, thus no further action on this issue has been considered.
- 6.7. Notwithstanding the above, modelled fluvial flood level data for the River Great Ouse has been obtained from the EA for various flood events, including the 0.1% Annual Exceedance Probability (AEP), 1 in 100 plus climate change and 0.1% AEP, 1 in 1000 year flood events. This data is provided in **Appendix D**, dated 03 March 2021.
- 6.8. The EA flood level data indicates that the nearest recorded Modelled Flood Level Node Points for the River Great Ouse are as listed below, located west of the site. The associated fluvial flood levels are as indicated below, which have been extrapolated from the data provided by the EA and the graphs showing the extrapolation are in **Appendix E**.

Table 6.1 - EA River Great Ouse Flood Node Levels Plus CC

Node Point	1% AEP	1% AEP (1 in	1% AEP (1	0.1% AEP
-1100010111	(1 in 100)	100) +	in 100) +	(1 in 1000)
		20%CC	65%CC	
EA052349UO0118	16.27	16.42	16.73	16.73
EA052349UO0119	16.28	16.43	16.73	16.74
EA052349UO0120	16.39	16.44	16.71	16.75
EA052349UO0121	16.34	16.49	16.81	16.79
EA052349UO0122	16.39	16.54	16.91	16.83
EA052349UO0123	16.46	16.61	17.02	16.91
EA052349UO0124	16.50	16.65	17.12	16.94
EA052349UO0125	16.53	16.68	16.89	16.97
EA052349UO0126	16.58	16.72	16.95	17.00
EA052349UO0127	16.62	16.75	17.06	17.01
EA052349UO0128	16.70	16.81	17.16	17.06
EA052349U00129	16.77	16.90	17.22	17.16

Source: Environment Agency. Fluvial Flood Levels - mAODN. CC= Plus Climate Change

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6.9. The flood level data has been shown on the topographical survey on Drawing 60830-PP-012A to indicate the effects of the 1% AEP (1 in 100) plus 65% climate change river flooding or 0.1%AEP (1 in 1000) storm whichever is the higher indicated in Table 6.1.

Surface Water Flooding

- 6.10. An investigation into the surface water flooding in the local area of the site via the 'Gov.uk' maps, as shown on Figure 3 (high risk) indicates some minor risk of surface water flooding in the centre of the site near Lower Farm and also near the railway underpass along the route of the ditch towards the River Great Ouse, relating to the 3.33% AEP (1 in 30 year) event.
- 6.11. For the Medium Risk Scenario (up to the 1.0% AEP), shown on Figure 4 there is some minor flooding between 300mm and 900mm along the route of the ditch mentioned above.
- 6.12. For the Low risk 0.1% AEP (1 in 1000 year) event on Figure 5, the site is shown to be at risk of surface water flooding which appears to be mainly from the railway underpass and the associated watercourse to the west of the railway line, which then flows towards the River Great Ouse.
- 6.13. Consideration should be given to the surface water flow routes on any proposed development scheme and exceedance routes to ensure that a safe route to exit can be maintained in an extreme event. Our assessment of the 0.1% AEP event indicates that being able to exit the site avoiding the overland flow can be completed, showing that it is not detrimental to the development or an escape route.

Overloading of Existing Drainage Network

- 6.14. Flooding can occur when the drainage capacity of the network is exceeded or fails. This can be due to the design capacity of the network being less than the return period of the rainfall event. Otherwise, it can be when the network does not perform to the design capacity due to blockage or damage within the network. In addition, it can also occur if a water main fails. The water main and sewer plans can be found in Appendix F.
- 6.15. An assessment of the existing potable water network has been completed and there appears to be water mains parallel to Barford Road and these will need to be avoided with any future development.
- 6.16. An assessment of the surface water sewerage system locally indicated there are no surface water sewers within the site boundary.
- 6.17. There are foul water sewers within the site and these are positioned in the centre of the site near to Lower Farm, leading to a sewage treatment plant just to the north of Lower Farm. These will need to be avoided with any future development.

Groundwater Flooding

6.18. Groundwater flooding occurs when the water table rises. As such, groundwater flooding can happen sometime after a rainfall event and can last a considerable length of time.

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- 6.19. Consideration has been given the groundwater vulnerability and this is indicated on Figure 6. The site is shown to be in a potential medium to low or low, Groundwater Vulnerability area.
- 6.20. The ground investigation records of the borehole (TL15NE119, taken from the BGS website) on the northern boundary of the site just south of the tree belt and RWE Power Station indicates that the ground water was not encountered to a depth of approximately 2.37m. The ground level of the borehole was 17.3m AOD, thus the groundwater would likely be at a level of approximately 14.93m.
- 6.21. The conclusion is that the groundwater level is not extremely deep and consideration to groundwater should be considered in the design of the proposed development and a surface water solution.
 - Artificial Sources of Flooding
- 6.22. A view of the Reservoir flooding risk to the site has also been assessed via the 'Gov.uk' mapping and shows no risk beyond that already identified earlier in this report, so it has not been investigated further.
- 7. SURFACE WATER MANAGEMENT
- 7.1. It is proposed to change the existing site from agricultural uses and dwellings to further residential and employment uses.
- 7.2. At the appropriate time, consideration to a surface water scheme taking into account the existing geology, sustainable drainage uses and greenfield run off will need to be completed.
- 7.3. Mitigation will be needed to manage the runoff from the development site in accordance with current policy, so to not cause a detrimental effect downstream.
- 7.4. In terms of the FRZ 2, this has been addressed in the report and an appropriate level across the site calculated. In accordance with national policy, it is suggested that no floor levels should be a minimum of whichever is the higher of:
 - 300 millimetres (mm) above the general ground level of the site
 - 600mm above the estimated river or sea flood level
- 7.5. On this site the highest flood level is 17.22m AOD (1.0% plus 65%CC) as Table 6.1, thus it is suggested that as a precaution the lowest floor level should be 17.85m AOD. Through agreement and careful consideration, the floor level may be able to be reduced to 17.34m AOD in the northeast of the site, which is 0.6m above the flood level of 16.74m AOD. The agreement of the floor levels may need to be agreed with the EA or LLFA.

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8. OCCUPANTS AND USERS OF THE DEVELOPMENT

8.1. As the site is proposed for a change of use, from mainly agricultural to residential and employment, consideration to the users of the site will need to be addressed for the fluvial flood levels as well as the surface water flooding, for any accommodation or employment use, especially where occupants that may stay overnight.

9. EXCEPTION TEST

9.1. The exception test and assessment of the relevant flood levels with consideration to the appropriate climate change percentage has been completed. Development is proposed to be positioned in the areas of least flood risk, for example in FRZ 1. Therefore the site will be acceptable for the proposed uses.

10. RESIDUAL RISKS

- 10.1. The residual risk is usually taken to refer to the portion of overall risk that remains once risk mitigation measures have been implemented.
- 10.2. Groundwater flooding could occur, however, there is no proposed basement development suggested at the present time and the recorded groundwater is approximately 2.5m below the existing ground level. As previously stated, groundwater flooding can cause disruption, but the slow onset of this type of flooding means that it is unlikely to cause a serious danger to life or property. Any flow from the site could be channeled toward the roads / driveways as well as green space away from buildings.
- 10.3. A surface water flood greater than the 1.0% Annual Exceedance Probability could occur, which may exceed the capacity of the existing drainage system and cause flooding to the site. However, the site is on a slight slope and with building located on higher ground and with appropriate exceedance routing the surface water could be mitigated.
- 10.4. Other sources of potential flooding might be water main failure, but these are rare and also failure of the Anglian Water sewage treatment plant to the west of Barford Road near Lower Farm, however this has a monitoring station. Therefore these are unlikely to affect the development.

11. CONCLUSIONS

- 11.1. The site is location in an area of FRZ 1 and 2 and the development will be situated in Flood Zone 1 and is an appropriate for development for that zone according to the Planning Policy Guidance of the NPPF and the LLFA.
- 11.2. There will be no increase in water flow from the site once a suitable mitigation strategy is in place and development will be located outside of the surface water flooding areas.
- 11.3. The existing surface water flooding routes have been considered and will need to managed away from the development areas, thus meeting the requirement of the local and national policy.

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FIGURES / DRAWINGS

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Project no: 60830



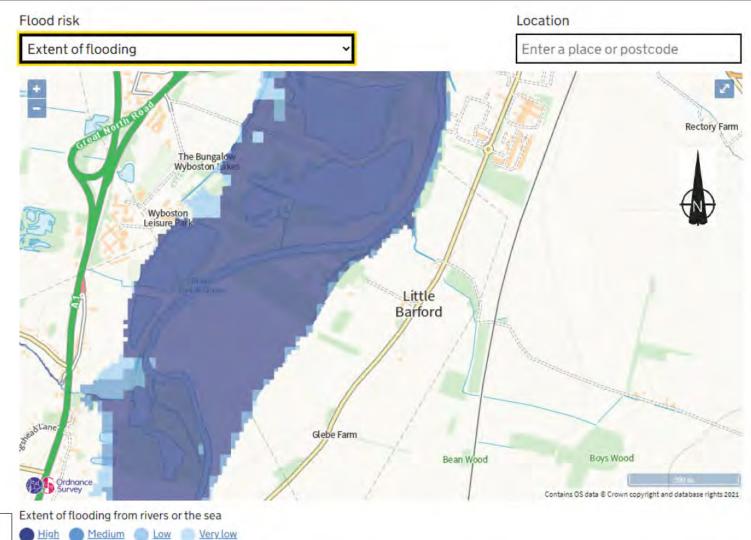
Site location grid reference 518356,256536 and postcode PE19 6YD

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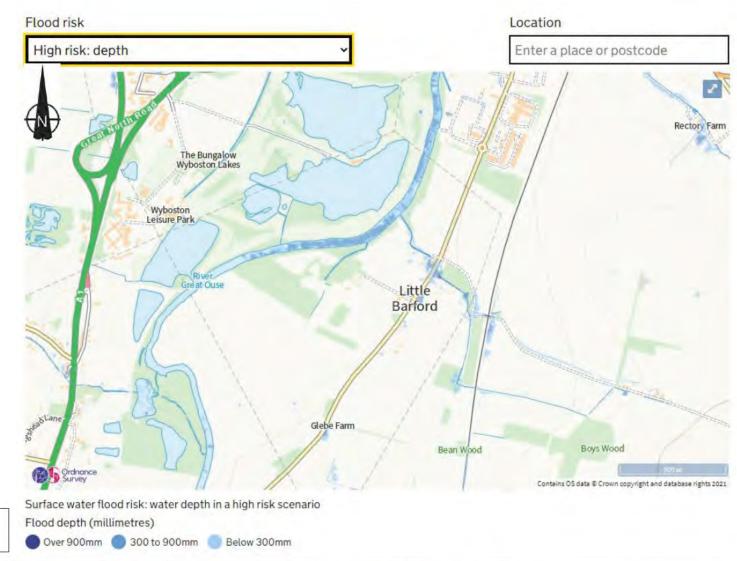




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Flood Mapping (High Risk)		
Date:	Job No:	Dwg No:
27.5.21	60830	Fig. 2 (NTS)
	Date:	(High Risl





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The Executors of the Late Nigel Alington

Surface Water Flooding (High Risk)

Date: Job No: Dwg No:

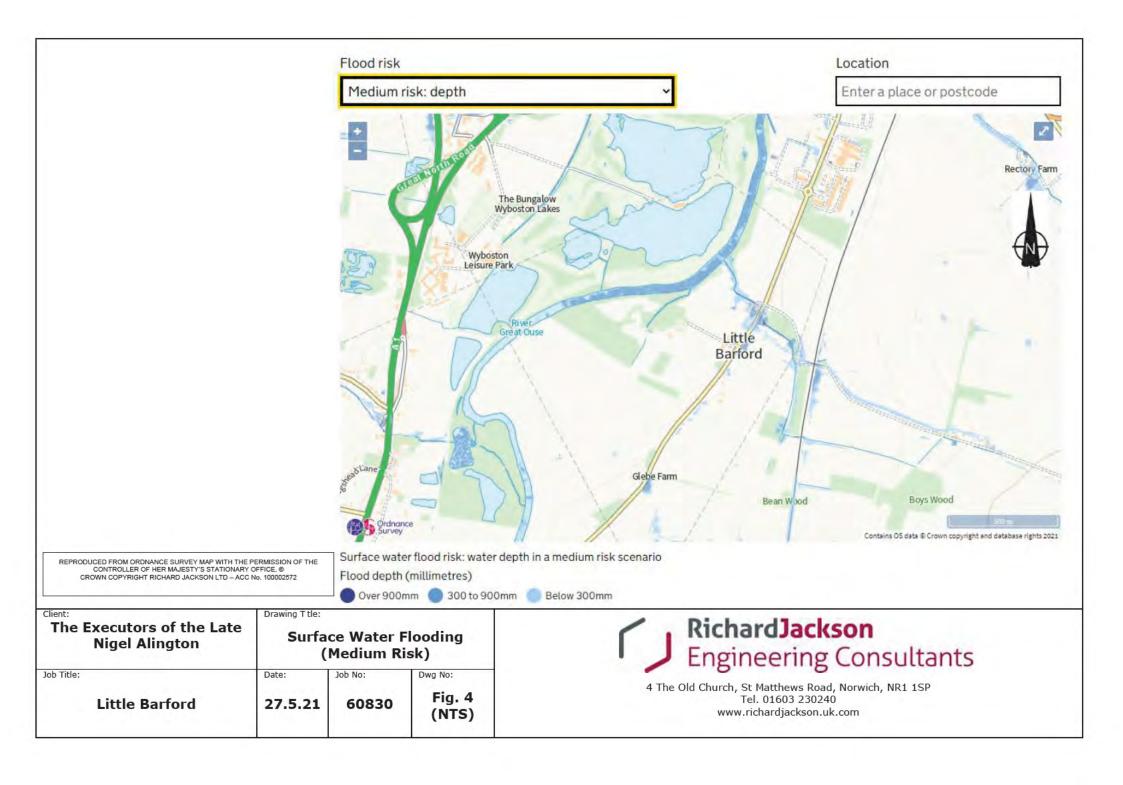
Little Barford

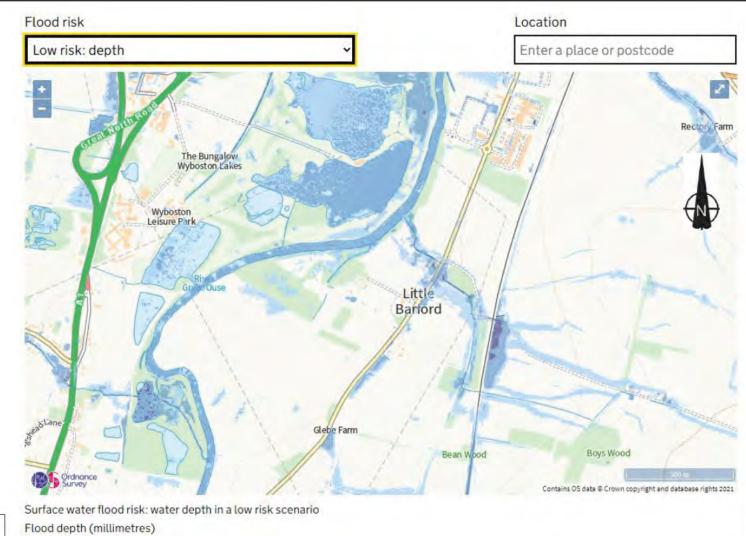
Drawing T tle:

Surface Water Flooding (High Risk)

Fig. 3 (NTS)





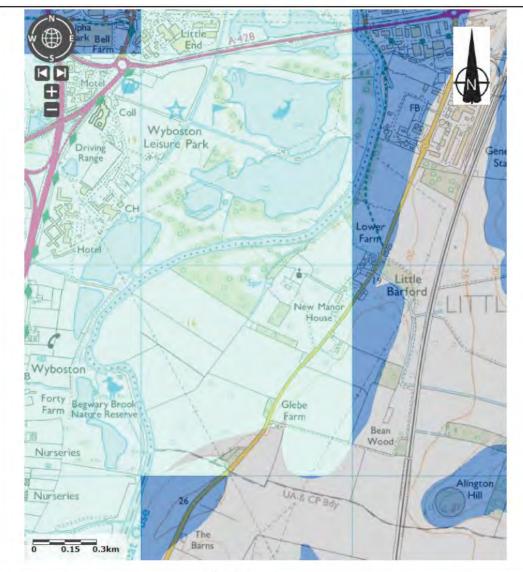


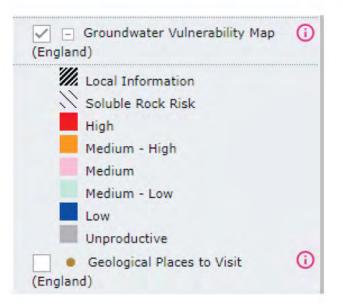
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Over 900mm 300 to 900mm Below 300mm

Surface Water Flooding (Low Risk)		
Date:	Job No:	Dwg No:
27.5.21	60830	Fig. 5 (NTS)
	Surfa	Surface Water F (Low Risk







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Client:
The Executors of the Late Nigel Alington

Date:
Date:
Job No:
Dwg No:
Little Barford

Drawing Title:

Groundwater Vulnerability
Date:
Job No:
Dwg No:
Fig. 6
(NTS)







APPENDIX A

Title: SITE SPECIFIC FLOOD RISK ASSESSMENT Project: Alington Estate, Little Barford, Bedfordshire The Executors of the Late Nigel Alington Client:

Project no: 60830



Flood map for planning

Your reference Location (easting/northing) Created

60830 518022/256851 26 May 2021 11:26

Your selected location is in flood zone 1, an area with a low probability of flooding.

This means:

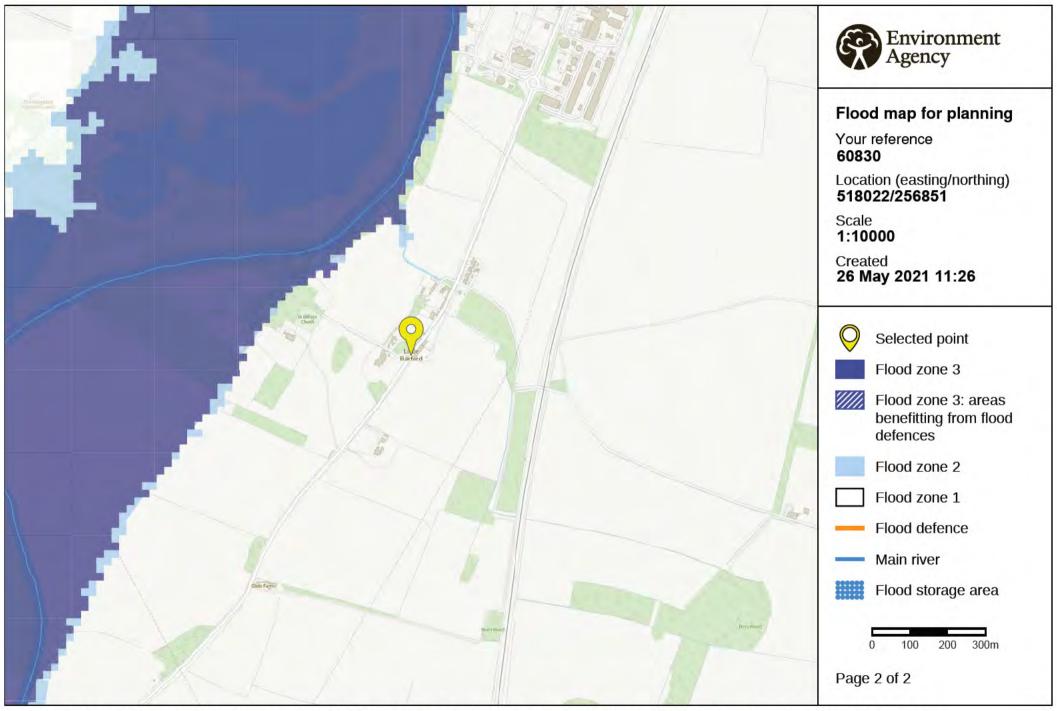
- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1
 hectare or affected by other sources of flooding or in an area with critical drainage
 problems

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

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APPENDIX B

Title: SITE SPECIFIC FLOOD RISK ASSESSMENT Project: Alington Estate, Little Barford, Bedfordshire The Executors of the Late Nigel Alington Client:

Project no: 60830

Flood risk assessments: Climate change allowances

Application of the allowances and local considerations

East Anglia; Essex, Norfolk, Suffolk, Cambridgeshire and Bedfordshire

1) The climate change allowances

The National Planning Practice Guidance refers planners, developers and advisors to the Environment Agency guidance on considering climate change in Flood Risk Assessments (FRAs). This guidance was updated in February 2016 and is available on Gov.uk. The guidance can be used for planning applications, local plans, neighbourhood plans and other projects. It provides climate change allowances for peak river flow, peak rainfall, sea level rise, wind speed and wave height. The guidance provides a range of allowances to assess fluvial flooding, rather than a single national allowance. It advises on what allowances to use for assessment based on vulnerability classification, flood zone and development lifetime.

2) Assessment of climate change impacts on fluvial flooding

Table A below <u>indicates</u> the level of technical assessment of climate change impacts on fluvial flooding appropriate for new developments depending on their scale and location. This should be used as a guide only. Ultimately, the agreed approach should be based on expert local knowledge of flood risk conditions, local sensitivities and other influences. For these reasons we recommend that applicants and / or their consultants should contact the Environment Agency at the preplanning application stage to confirm the assessment approach, on a case by case basis. Table A defines three possible approaches to account for flood risk impacts due to climate change, in new development proposals:

- Basic: Developer can add an allowance to the 'design flood' (i.e. 1% annual probability) peak levels to account for potential climate change impacts. The allowance should be derived and agreed locally by Environment Agency teams.
- Intermediate: Developer can use existing modelled flood and flow data to construct a stagedischarge rating curve, which can be used to interpolate a flood level based on the required peak flow allowance to apply to the 'design flood' flow.
- **Detailed:** Perform detailed hydraulic modelling, through either re-running Environment Agency hydraulic models (if available) or construction of a new model by the developer.

Table A – Indicative guide to assessment approach

VULNERABILITY	FLOOD	DEVELOPMENT TYPE				
CLASSIFICATION	ZONE	MINOR	SMALL-MAJOR	LARGE-MAJOR		
ECCENTIAL	Zone 2	Detailed				
ESSENTIAL INFRASTRUCTURE	Zone 3a	Detailed				
INFRASTRUCTURE	Zone 3b	Detailed				
	Zone 2	Intermediate/ Basic	Intermediate/ Basic	Detailed		
HIGHLY VULNERABLE	Zone 3a	Not appropriate development				
VULNERABLE	Zone 3b	Not appropriate development				
MODE	Zone 2	Basic	Basic	Intermediate/ Basic		
MORE	Zone 3a	Intermediate/ Basic	Detailed	Detailed		
VULNERABLE	Zone 3b	Not appropriate development				
LESS	Zone 2	Basic	Basic	Intermediate/ Basic		
VULNERABLE	Zone 3a	Basic	Basic	Detailed		
VOLNERABLE	Zone 3b	Not appropriate development				
MATER	Zone 2	None				
WATER	Zone 3a	Intermediate/ Basic				
COMPATIBLE	Zone 3b	Detailed				

Note: Where the table states 'not appropriate development', this is in line with national planning policy. If in exceptional circumstances such development types are proposed in these locations, we would expect a detailed modelling approach to be used.

NOTES:

- Minor: 1-9 dwellings/ less than 0.5 ha | Office / light industrial under 1 ha | General industrial under 1 ha | Retail under 1 ha | Gypsy/traveller site between 0 and 9 pitches
- Small-Major: 10 to 30 dwellings | Office / light industrial 1ha to 5ha | General industrial 1ha to 5ha | Retail over 1ha to 5ha | Gypsy/traveller site over 10 to 30 pitches
- Large-Major: 30+ dwellings | Office / light industrial 5ha+ | General industrial 5ha+ | Retail 5ha+ | Gypsy/traveller site over 30+ pitches | any other development that creates a non residential building or development over 1000 sq m.

The assessment approach should be agreed with the Environment Agency as part of preplanning application discussions to avoid abortive work.

3) Specific local considerations

Where the Environment Agency and the applicant and / or their consultant has agreed that a 'basic' level of assessment is appropriate the figures in Table B below can be used as a precautionary allowance for potential climate change impacts on peak 'design' (i.e. 1% annual probability) fluvial flood level rather than undertaking detailed modelling.

Table B – Local precautionary allowances for potential climate change impacts

Essex, Norfolk and Suffolk

Hydraulic Model (Watercourse)	Central	Higher Central	Upper
Blackwater & Brain -	500mm	600mm	900mm
Blackwater between TL7520925623 and			
TL7820324314			
Brain between TL7373323312 and TL7683821321			
Chelmer - between TL6872107082 and	350mm	450mm	750mm
TL7161609422 and TL7436306592			
Colne (Model Extent)	450mm	600mm	950mm
Gipping – Downstream of Needham Market	400mm	500mm	850mm
Gipping – Needham Market and upstream including Somersham W/C	200mm	250mm	400mm
Norwich Downstream of TG2332009072	450mm	600mm	950mm
Norwich Upstream of TG2332009072	600mm	800mm	1200mm
Wensum (Model Extent)	400mm	500mm	800mm
Yare (Model Extent)	200mm	250mm	450mm
Broads (2008 Model Extent)		ne current 1 in 1000	
Bure and Ant (2012 Model Extent)		cluding climate cha	
Other main rivers, tributaries and ordinary watercourses	For other main rivers, tributaries and ordinar watercourses that are not stated above, bas allowances have not been calculated. In this instance you can either: • If flow data is available you can requesta from us and can conduct an intermediate assessment yourself • Or alternatively, you can choose to undertake a Detailed Assessment as "perform detailed hydraulic modelling through either re-running our hydrau models (if available) or constructing model		above, basic lated. In this you can request this induct an int yourself in choose to sessment and ulic modelling, g our hydraulic

Cambridgeshire and Bedfordshire

Watercourse / Model	Central	Higher Central	Upper End
Alconbury Brook	600mm	700mm	900mm
River Kym			
Lower Ouse (Model	700mm	800mm	1100mm
Extent)			
Mid Ouse (Cold	700mm	800mm	1100mm
Brayfield to Bromham –			
between			
SP9156852223 and			
TL0132950919)			
Mid Ouse (East of	700mm	850mm	1200mm
Bedford to Roxton –			
between			
TL0791848903 and			
TL1618854543)			
River Hiz and River	400mm	450mm	550mm
Purwell			
River Ivel	500mm	600mm	750mm
Pix Brook	450mm	500mm	600mm
Potton Brook	500mm	600mm	700mm
River Cam and	600mm	700mm	950mm
tributaries (excluding			
the Cam Lodes and the			
Slade System)			
Great Barford (ordinary	500mm	550mm	650mm
watercourses)			
Bromham (ordinary	550mm	650mm	850mm
watercourse)			

NOTES:

Urban areas excluded from the 'basic' approach: St Ives, Holywell, Godmanchester, Swavesey, Over, Bedford, Newport Pagnell, Buckingham and Leighton Buzzard. More detailed assessment of climate change allowances will need to be undertaken in these locations.

Use of these allowances will only be accepted after discussion with the Environment Agency.

4) Fluvial food risk mitigation

For planning consultations where we are a statutory consultee and our <u>Flood risk standing</u> advice **does not** apply we use the following benchmarks to inform flood risk mitigation for different vulnerability classifications. <u>These are a guide only</u>. We strongly recommend you contact us at the pre-planning application stage to confirm this on a case by case basis. For planning consultations where we are not a statutory consultee or our <u>Flood risk Standing advice</u> applies we recommend local planning authorities and developers use these benchmarks but we do not expect to be consulted.

- For development classed as 'Essential Infrastructure' our benchmark for flood risk mitigation is
 for it to be designed to the 'upper end' climate change allowance for the epoch that most closely
 represents the lifetime of the development, including decommissioning.
- For highly vulnerable or more vulnerable developments in flood zone 2, the 'central' climate change allowance is our minimum benchmark for flood risk mitigation, and in flood zone 3 the 'higher central' climate change allowance is our minimum benchmark for flood risk mitigation. In sensitive locations it may be necessary to use the higher central (in flood zone 2) and the upper end allowance (in flood zone 3).
- For water compatible or less vulnerable development (e.g. commercial), the 'central' climate change allowance for the epoch that most closely represents the lifetime of the development is our minimum benchmark for flood risk mitigation. In sensitive locations it may be necessary to use the higher central (particularly in flood zone 3) to inform built in resilience.

For a visual representation of the above, please see Tables 1 and 2 overleaf.

5) Development in Tidal Areas

There is no change to the way we respond to sites affected solely by tidal flood risk as the sea level allowances are unchanged.

6) Our Service

Non-chargeable service

We will give a free opinion on:

- What climate change allowance to apply to a particular development type
- Which technical approach is suitable in the FRA

Chargeable service:

- Review of climate change impacts using intermediate and detailed technical approaches (i.e. modelling review)
- Assessment and review of proposals for managed adaptation.

allowance

Table 1 p		lowances by rive	r basin district (us	e 1961 to 1990	
River basin district	Allowance cate	egory	Total potential change anticipated for '2020s' (2015 to 39)	Total potential change anticipated for '2050s' (2040 to 2069)	Total potential change anticipated for '2080s' (2070 to 2115)
Anglian	Upper end		25%	35%	65%
	Higher central		15%	20%	35%
	Central		10%	15%	25%
Thames	Upper end		25%	35%	70%
	Higher central		15%	25%	35%
	Central		10%	15%	25%
Table 2:	Using peak river	flow allowances	for flood risk asse	essments	
Flood Zone	Essential Infrastructure	Highly Vulnerable	More Vulnerable	Less Vulnerable	Water Compatible
2	higher central and upper end allowances	higher central and upper end allowances	central and higher central allowances	central allowance	none of the allowances
3a	upper end allowance	Х	higher central and upper end	central and higher central	central allowance
3b	upper end	X	x	x	central

X – Development should not be permitted

allowance

There may be circumstances where local evidence supports the use of other data or allowances. Where you think this is the case we may want to check this data and how you propose to use it.

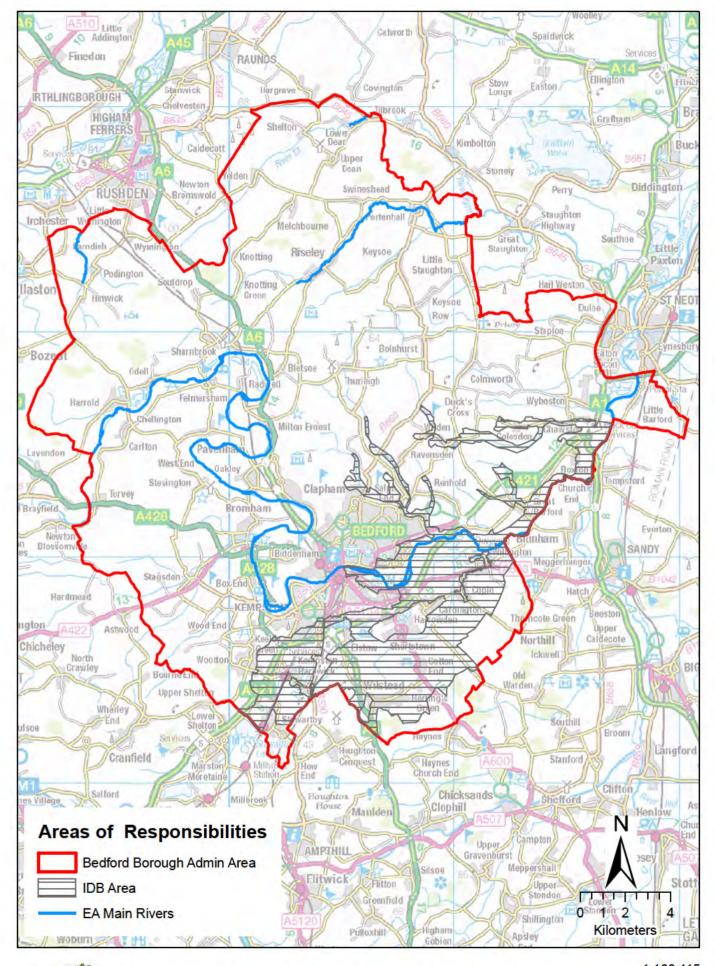
If (exceptionally) development is considered appropriate when not in accordance with flood zone vulnerability categories, then it would be appropriate to use the upper end allowance.



APPENDIX C

Title: SITE SPECIFIC FLOOD RISK ASSESSMENT
Project: Alington Estate, Little Barford, Bedfordshire
The Executors of the Late Nigel Alington

Client: The Executors of the Late Nigel Alington Project no: 60830





Bedford Borough Council Areas of Responsibilities

1:168,115

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Environment Agency – Main River Mapping Dated 27.5.21





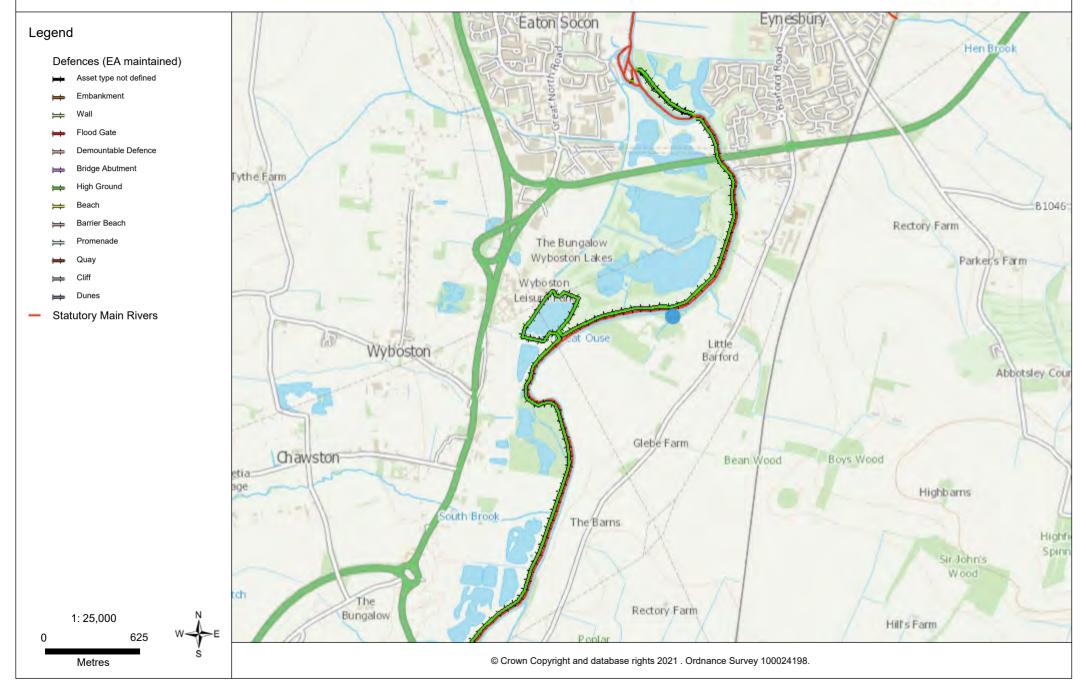
APPENDIX D

Title: SITE SPECIFIC FLOOD RISK ASSESSMENT Project: Alington Estate, Little Barford, Bedfordshire The Executors of the Late Nigel Alington Client:

Project no: 60830

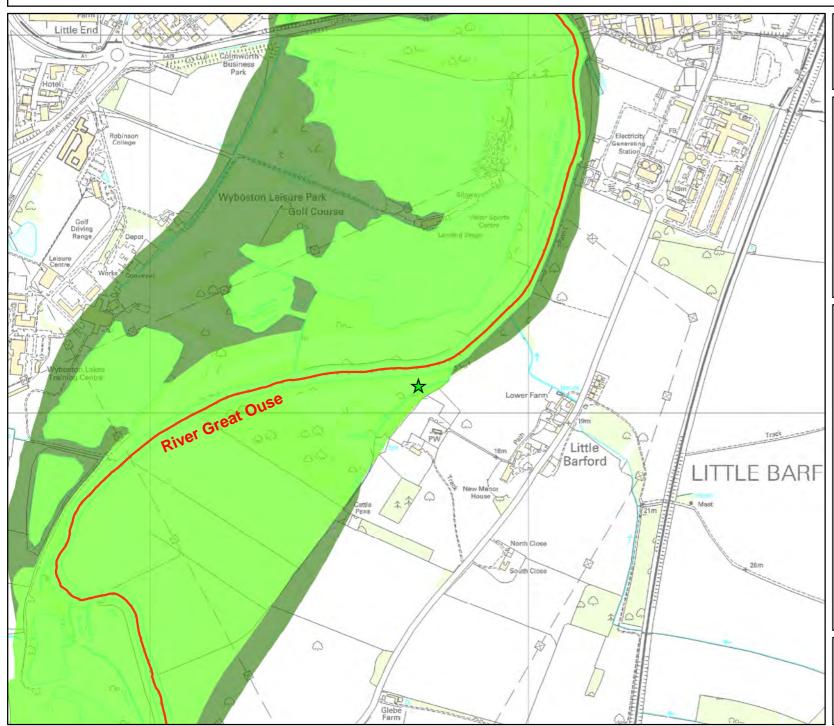
Title





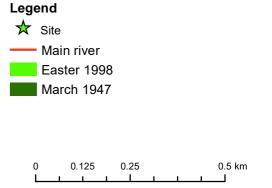
Recorded Flood Event Outlines centred on land at Little Barford

NGR TL1771057072 Ref 206031 Created 03/03/2021



Environment Agency Bromholme Lane, Brampton, Cambridgeshire PE28 4NE





Information

Recorded Outlines - The recorded flood outlines provided are only indicative and may not accurately represent the area that flooded in the named events. Our historic flood event outlines do not provide a definitive record of flooding. It is possible that there will be an absence of datail in places where we have not been able to record the extent of flooding. It is also possible for errors occur in the digitisation of historic records of flooding.

Recorded Outlines - There may be other flood events that have occurred that we have not been able to produce an outline for.

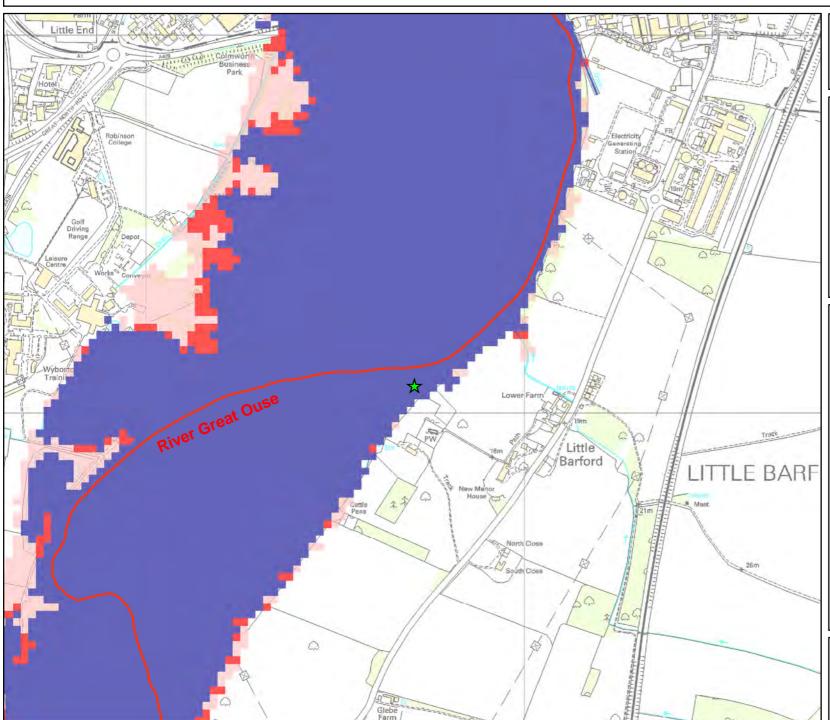
Recorded Outlines - The historic flood event outlines are based on a combination of anecdotal evidence, Environment Agency staff observations and survey.

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Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY Tel: 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

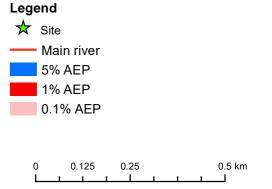
Defended Model Flood Outlines centred on land at Little Barford

NGR TL1771057072 Ref 206031 Created 03/03/2021



Environment Agency Bromholme Lane, Brampton, Cambridgeshire PE28 4NE





Information

Model Tolerance - Any data included in this product is subject to a standard modelling tollerance of +/- 150mm. The fluvial models used to produce these results are intended for strategic scale use only.

Flood Risk Assessments - The Environment Agency recommends any Flood Risk Assessment should only consider these results in the context of a site specific assessment.

AEP - Annual Exceedance Probability - The probability of a given event occurring in any one year. Please note this is not a return period.

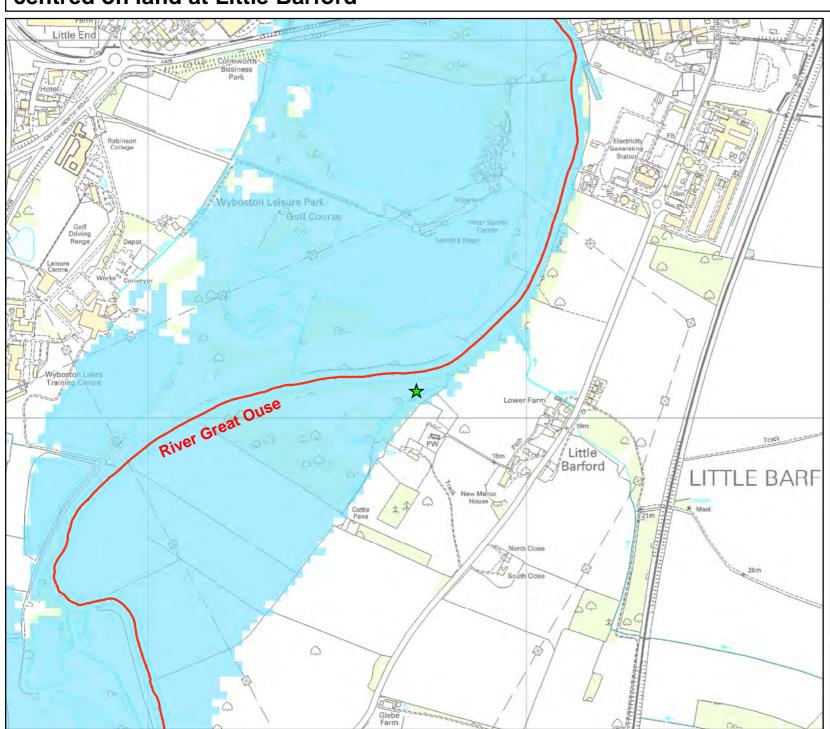
Strategic Scale Model - This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences if present.

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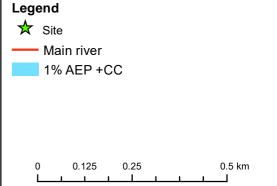
Defended Climate Change Model Flood Outlines centred on land at Little Barford

NGR TL1771057072 Ref 206031 Created 03/03/2021



Environment Agency Bromholme Lane, Brampton, Cambridgeshire PE28 4NE





Information

Model Tolerance - Any data included in this product is subject to a standard modelling tollerance of +/- 150mm. The fluvial models used to produce these results are intended for strategic scale use only.

Flood Risk Assessments - The Environment Agency recommends any Flood Risk Assessment should only consider these results in the context of a site specific assessment.

AEP - Annual Exceedance Probability - The probability of a given event occurring in any one year. Please note this is not a return period.

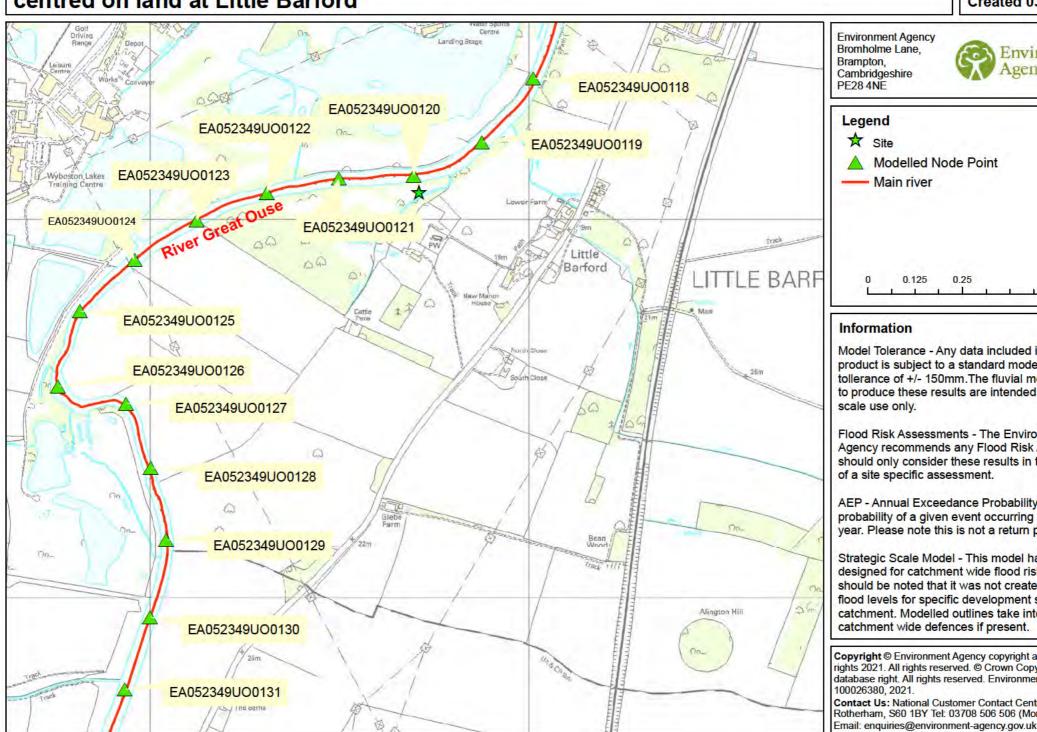
Strategic Scale Model - This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences if present.

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Modelled Node Point Locations centred on land at Little Barford

NGR TL1771057072 Ref 206031 Created 03/03/2021



Environment Agency Bromholme Lane. Brampton, Cambridgeshire PE28 4NF

Main river

Modelled Node Point



0.5 km



Model Tolerance - Any data included in this product is subject to a standard modelling tollerance of +/- 150mm. The fluvial models used to produce these results are intended for strategic scale use only.

0.25

Flood Risk Assessments - The Environment Agency recommends any Flood Risk Assessment should only consider these results in the context of a site specific assessment.

AEP - Annual Exceedance Probability - The probability of a given event occurring in any one year. Please note this is not a return period.

Strategic Scale Model - This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences if present.

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nt Nur

Reference 206031

Number

Little Barford PE19 6YD

Customer

NGR

TL1771057072

Datasheet - Product 4

03 March 2021

This datasheet provides supporting information for your Product 4. It will be clearly indicated if we are unable to provide information to fulfil any part of your request.

Model Summary

Model Name	Model Code
Lower Ouse	EA052349

Important Information

The following information should considered when using the material provided to fulfil this request.

Information				
Limited Modelled Extents Provided	We have only provided a limited number of modelled flood extents for clarity. If you require further extents we will be happy to provide them.			
Climate Change Allowances	The 1%+CC AEP flood level in the tables will be based on the 1% annual probability flood event including an additional 20% increase in peak flows to account for climate change impacts. Guidance on climate change allowances for the purpose of flood risk assessments is available on our website at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances. You may need to undertake further assessment / modelling of future flood risk using different climate change allowances to ensure your assessment of future flood risk is based on the best available evidence.			

Modelled Water Levels and Flows

The following tables provide modelled in channel water level and flow values. Values are provided for Annual Exceedence Probability (AEP) events, which is the probability of a given event occurring in any one year. This is not a return period.

The fluvial models used to produce these results are intended for strategic scale use only.

If the tables show a value of -9999, this indicates that we have no level or flow data for that particular AEP or node point.

Level Data

Level values are measured in metres above Ordnance Datum (m aOD).

All level data included are subject to standard modelling tolerance of +/-150 millimetres.

Present Day Levels

Node	Model	Easting	Northing	20%	10%	5%	4%	2%	1.33%	1%	0.5%	0.1%
EA052349UO0118	EA052349	518012	257373	15.87	15.96	-9999	16.08	16.17	16.23	16.27	16.37	16.73
EA052349UO0119	EA052349	517875	257204	15.88	15.97	-9999	16.1	16.19	16.24	16.28	16.38	16.74
EA052349UO0120	EA052349	517696	257116	15.89	15.98	-9999	16.11	16.2	16.26	16.29	16.39	16.75
EA052349UO0121	EA052349	517498	257108	15.92	16.02	-9999	16.15	16.25	16.31	16.34	16.44	16.79
EA052349UO0122	EA052349	517307	257070	15.97	16.07	-9999	16.21	16.3	16.36	16.39	16.49	16.83
EA052349UO0123	EA052349	517123	256998	16.01	16.12	-9999	16.26	16.37	16.43	16.46	16.57	16.91
EA052349UO0124	EA052349	516958	256893	16.04	16.15	-9999	16.3	16.4	16.46	16.5	16.6	16.94
EA052349UO0125	EA052349	516813	256758	16.07	16.18	-9999	16.33	16.44	16.5	16.53	16.64	16.97
EA052349UO0126	EA052349	516755	256558	16.18	16.27	16.36	16.4	16.49	16.55	16.58	16.68	17
EA052349UO0127	EA052349	516935	256513	16.25	16.35	16.44	16.46	16.54	16.59	16.62	16.71	17.01
EA052349UO0128	EA052349	517001	256343	16.34	16.44	16.52	16.55	16.62	16.67	16.7	16.78	17.06
EA052349UO0129	EA052349	517042	256152	16.38	16.49	16.58	16.6	16.69	16.74	16.77	16.86	17.16
EA052349UO0130	EA052349	516999	255949	16.44	16.55	16.64	16.67	16.77	16.82	16.85	16.96	17.27
EA052349UO0131	EA052349	516932	255758	16.47	16.59	16.69	16.73	16.82	16.88	16.91	17.01	17.32

Climate Change Level

Node	Model	Easting	Northing	1%+20%cc	1%+25%cc	1%+35%cc	1%+65%cc	0.5%+20%cc	0.1%+20%cc
EA052349UO0118	EA052349	518012	257373	16.42	-9999	-9999	-9999	-9999	-9999
EA052349U00119	EA052349	517875	257204	16.43	-9999	-9999	-9999	-9999	-9999
EA052349UO0120	EA052349	517696	257116	16.44	-9999	-9999	-9999	-9999	-9999
EA052349U00121	EA052349	517498	257108	16.49	-9999	-9999	-9999	-9999	-9999
EA052349UO0122	EA052349	517307	257070	16.54	-9999	-9999	-9999	-9999	-9999
EA052349UO0123	EA052349	517123	256998	16.61	-9999	-9999	-9999	-9999	-9999
EA052349UO0124	EA052349	516958	256893	16.65	-9999	-9999	-9999	-9999	-9999
EA052349U00125	EA052349	516813	256758	16.68	-9999	-9999	-9999	-9999	-9999
EA052349UO0126	EA052349	516755	256558	16.72	-9999	-9999	-9999	-9999	-9999
EA052349U00127	EA052349	516935	256513	16.75	-9999	-9999	-9999	-9999	-9999
EA052349UO0128	EA052349	517001	256343	16.81	-9999	-9999	-9999	-9999	-9999
EA052349UO0129	EA052349	517042	256152	16.9	-9999	-9999	-9999	-9999	-9999
EA052349UO0130	EA052349	516999	255949	17	-9999	-9999	-9999	-9999	-9999
EA052349U00131	EA052349	516932	255758	17.06	-9999	-9999	-9999	-9999	-9999

Flow Data

Flow values are measured in cubic metres per second (cumecs - m3/s).

Present Day Flows

Node	Model	Easting	Northing	20%	10%	5%	4%	2%	1.33%	1%	0.5%	0.1%
EA052349UO0118	EA052349	518012	257373	84.56	91	-9999	100.5	107.5	111.1	113.7	118.9	131.9
EA052349UO0119	EA052349	517875	257204	94.3	103.9	-9999	117.4	127.1	132.3	135.6	142.8	157.1
EA052349UO0120	EA052349	517696	257116	105.5	116.8	-9999	130.2	139.8	144.8	148.0	154.6	168.0
EA052349UO0121	EA052349	517498	257108	103.7	114.6	-9999	126.9	135.5	140.1	142.9	149.6	163.4
EA052349UO0122	EA052349	517307	257070	96.41	105.7	-9999	117.1	125.7	130.7	134.0	141.9	161.6
EA052349UO0123	EA052349	517123	256998	92.63	98.26	-9999	104.7	109.1	111.8	113.3	117.8	125.9
EA052349UO0124	EA052349	516958	256893	95.99	101.0	-9999	104.7	106.6	109.0	110.2	114.0	125.6
EA052349UO0125	EA052349	516813	256758	110.3	114.7	-9999	116.1	117.6	118.3	119.3	120.8	125.5
EA052349UO0126	EA052349	516755	256558	112.1	122.0	127.0	127.3	128.6	129.3	129.9	132.6	148.1
EA052349UO0127	EA052349	516935	256513	104.2	113.4	120.4	122.3	129.2	133.7	136.3	143.6	167.8
EA052349UO0128	EA052349	517001	256343	104.2	113.4	123.3	127.0	139.8	147.0	152.0	166.3	200.3
EA052349UO0129	EA052349	517042	256152	106.0	118.5	131.1	135.0	146.3	151.9	156.3	168.4	199.8
EA052349UO0130	EA052349	516999	255949	106.0	118.6	130.6	134.1	143.5	147.9	151.2	159.9	189.3
EA052349UO0131	EA052349	516932	255758	104.8	113	121.3	124.2	133.7	139.4	143.4	154.5	190.4

Climate Change Flows

Node	Model	Easting	Northing	1%+20%cc	1%+25%сс	1%+35%сс	1%+65%cc	0.5%+20%cc	0.1%+20%cc
EA052349UO011 8	EA052349	518012	257373	121.6	-9999	-9999	-9999	-9999	-9999
EA052349UO011 9	EA052349	517875	257204	146.3	-9999	-9999	-9999	-9999	-9999
EA052349UO012 0	EA052349	517696	257116	157.9	-9999	-9999	-9999	-9999	-9999
EA052349UO012 1	EA052349	517498	257108	153.3	-9999	-9999	-9999	-9999	-9999
EA052349UO012 2	EA052349	517307	257070	146.5	-9999	-9999	-9999	-9999	-9999
EA052349UO012 3	EA052349	517123	256998	120.0	-9999	-9999	-9999	-9999	-9999
EA052349UO012 4	EA052349	516958	256893	116.6	-9999	-9999	-9999	-9999	-9999
EA052349UO012 5	EA052349	516813	256758	121.0	-9999	-9999	-9999	-9999	-9999
EA052349UO012 6	EA052349	516755	256558	134.8	-9999	-9999	-9999	-9999	-9999
EA052349UO012 7	EA052349	516935	256513	147.6	-9999	-9999	-9999	-9999	-9999
EA052349UO012 8	EA052349	517001	256343	172.4	-9999	-9999	-9999	-9999	-9999
EA052349UO012 9	EA052349	517042	256152	173.2	-9999	-9999	-9999	-9999	-9999
EA052349UO013 0	EA052349	516999	255949	163.6	-9999	-9999	-9999	-9999	-9999
EA052349UO013	EA052349	516932	255758	159.2	-9999	-9999	-9999	-9999	-9999

Recorded Flood Events

Where included, the Recorded Flood Event Outlines map provides an indication of areas which have flooded. Not all properties shown to be within the outline will have flooded.

Flood Event	Start	End	Source	Cause
Easter 1998	08/04/1998	15/04/1998	Main River	Channel Capacity Exceeded (no raised defences)
March 1947	13/03/1947	17/03/1947	Main River	Channel Capacity Exceeded (no raised defences)

General Information

Flood Map for Planning (Rivers and Sea

The Flood Map for Planning (Rivers and Sea) indicates the area at risk of flooding for a flood event with a 0.5% chance of occurring in any year for flooding from the sea, or a 1% chance of occurring in any year for fluvial (river) flooding (Flood Zone 3).

It also shows the extent of the Extreme Flood Outlines (Flood Zone 2) which represents the extent of a flood event with a 0.1% chance of occurring in any year, or the highest recorded historic extent if greater. The Flood Zones refer to the land at risk of flooding and do not refer to individual properties.

The Flood Map for Planning (Rivers and Sea) can be viewed and downloaded as a PDF file on GOV.UK by following this link: https://flood-map-for-planning.service.gov.uk or downloaded in GIS format under an open data licence from the following address: https://data.gov.uk/publisher/environment-agency

The Flood Map is updated on a quarterly basis to account for any amendments required.

Surface Water, Ordinary Watercourses and Groundwater Flooding

Lead Local Flood Authorities (LLFA) are responsible for managing local flood risk from ordinary watercourses, surface water flooding and groundwater flooding. You should check with the LLFA as they may have more up to date information regarding this type of flooding.

The Risk of Flooding from Surface Water Flood Map can be viewed and downloaded as a PDF file on GOV.UK by following this link: https://flood-warning-information.service.gov.uk/long-term-flood-risk

Information on how to reduce the impact of flooding from groundwater can be found online by the following link: https://www.gov.uk/government/publications/flooding-from-groundwater

Flooding from Reservoirs

The Risk of Flooding from Reservoirs Flood Map can be viewed and downloaded as a PDF file on GOV.UK by following this link: https://flood-warning-information.service.gov.uk/long-term-flood-risk

Sewer Flooding

Your local water company may have information on sewage flooding in your area of interest.

Areas Benefitting from Defence

Areas Benefitting from Defences show the area benefiting from defences from a 1 in 100 (1% AEP) year fluvial event or a 1 in 200 (0.5% AEP) tidal/coastal event.

The associated dataset can be downloaded in GIS from the following link: https://data.gov.uk/dataset/flood-map-for-planning-rivers-and-sea-areas-benefiting-from-defences



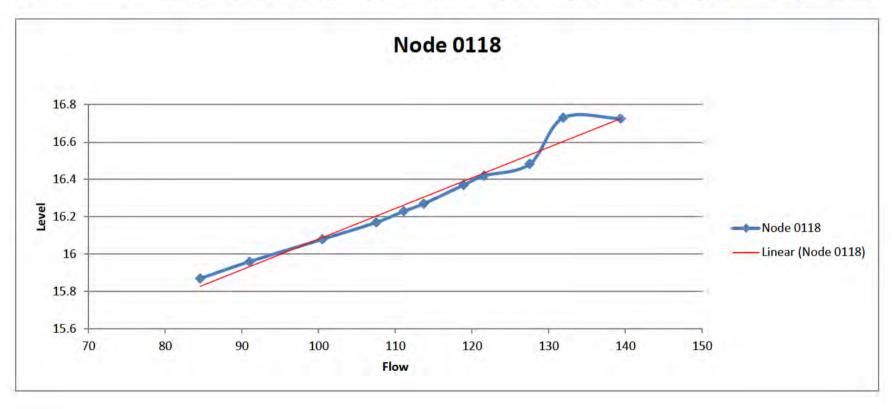
APPENDIX E

Title: SITE SPECIFIC FLOOD RISK ASSESSMENT Project: Alington Estate, Little Barford, Bedfordshire Client: The Executors of the Late Nigel Alington

Project no: 60830



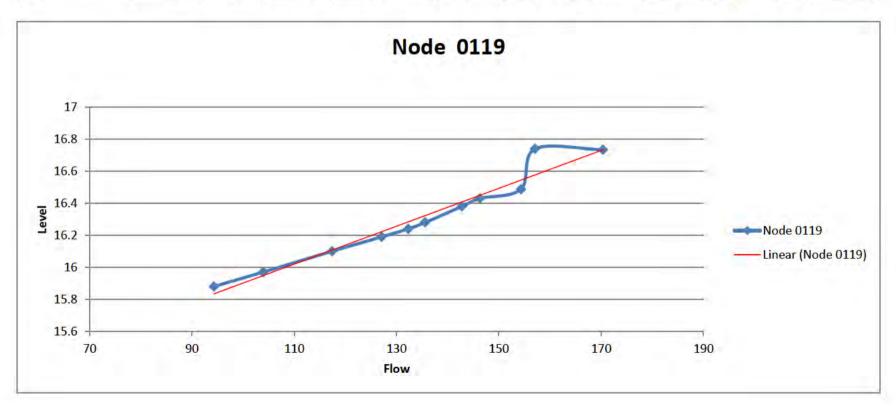
Node 0118						-11			1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	84.56	91	100.5	107.5	111.1	113.7	118.9	121.6	127.525	131.9	139.375
level	15.87	15.96	16.08	16.17	16.23	16.27	16.37	16.42	16.483	16.73	16.726





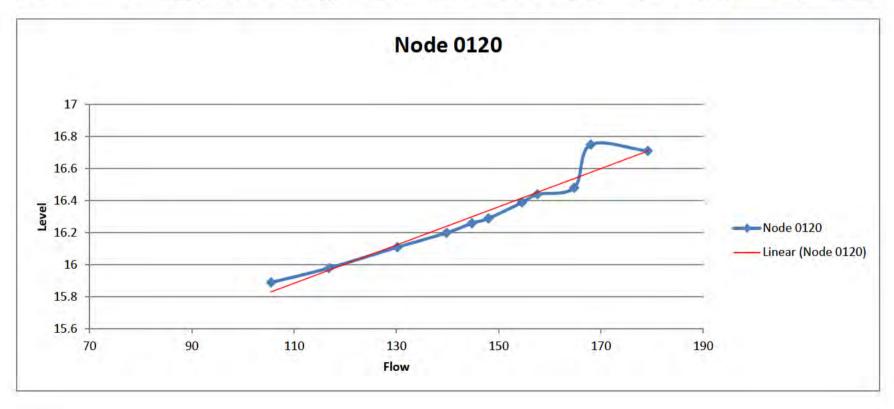
River Great Ouse - Little Barford

Node 0119									1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	94.3	103.9	117.4	127.1	132.3	135.6	142.8	146.3	154.325	157.1	170.375
level	15.88	15.97	16.1	16.19	16.24	16.28	16.38	16.43	16.487	16.74	16.734



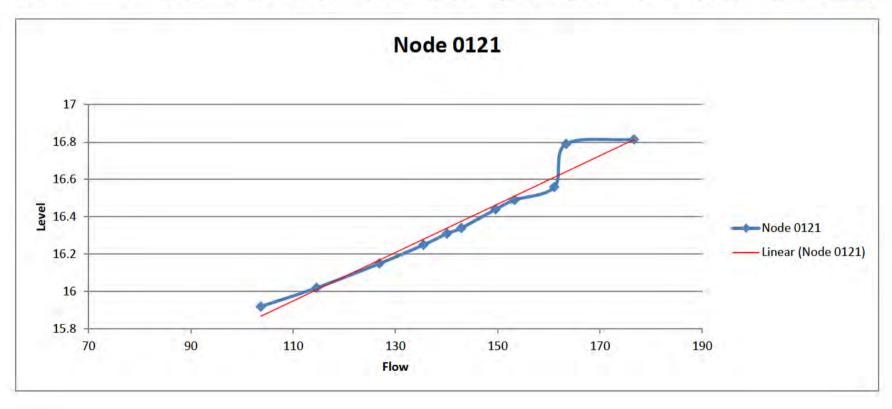


Node 0120						-1			1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	105.5	116.8	130.2	139.8	144.8	148	154.6	157.6	164.800	168	179.200
level	15.89	15.98	16.11	16.2	16.26	16.29	16.39	16.44	16.482	16.75	16.711



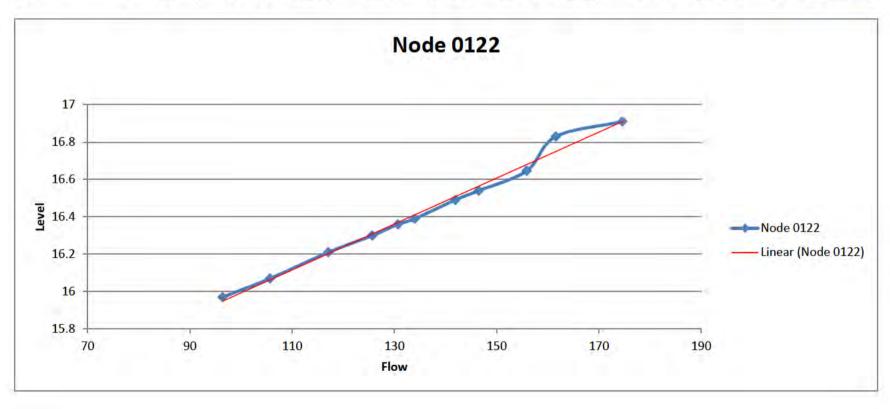


Node 0121						-11			1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	103.7	114.6	126.9	135.5	140.1	142.9	149.6	153.3	161.100	163.4	176.700
level	15.92	16.02	16.15	16.25	16.31	16.34	16.44	16.49	16.560	16.79	16.814



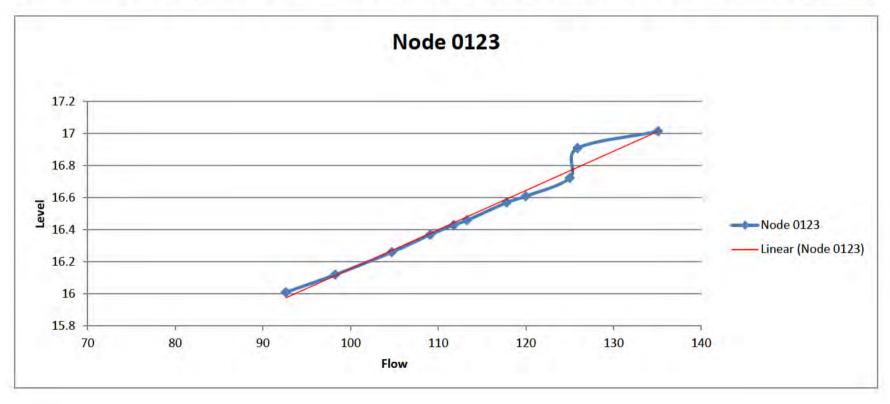


Node 0122						-11			1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	96.41	105.7	117.1	125.7	130.7	134	141.9	146.5	155.875	161.6	174.625
level	15.97	16.07	16.21	16.3	16.36	16.39	16.49	16.54	16.646	16.83	16.910



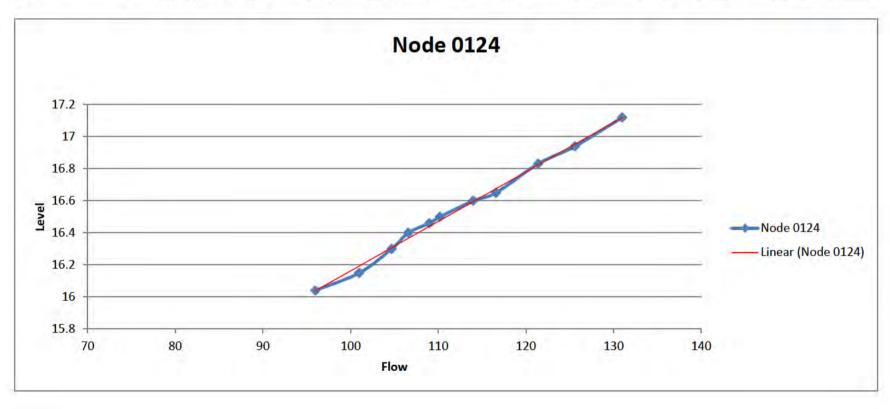


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AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	92.63	98.26	104.7	109.1	111.8	113.3	117.8	120	125.025	125.9	135.075
level	16.01	16.12	16.26	16.37	16.43	16.46	16.57	16.61	16.724	16.91	17.015





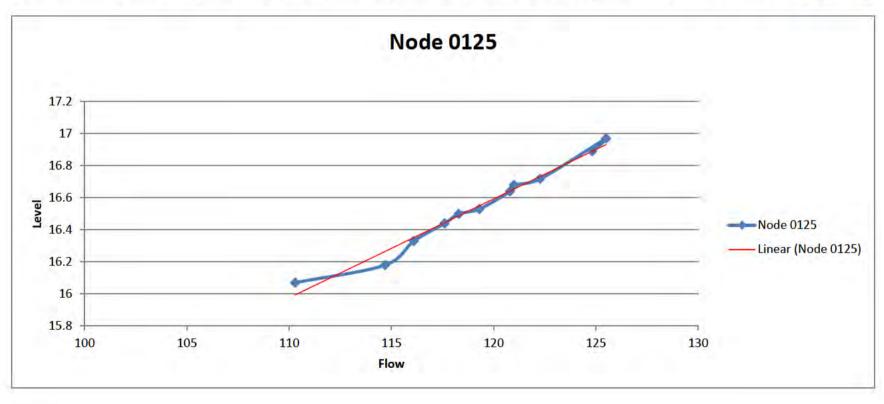
Node 0124						-10			1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	95.99	101	104.7	106.6	109	110.2	114	116.6	121.400	125.6	131.000
level	16.04	16.15	16.3	16.4	16.46	16.5	16.6	16.65	16.831	16.94	17.120





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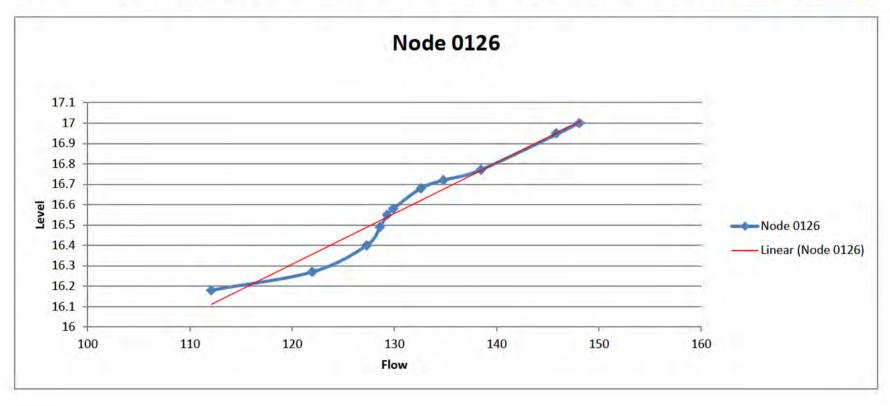
Node 0125						-1			1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	110.3	114.7	116.1	117.6	118.3	119.3	120.8	121	122.275	125.5	124.825
level	16.07	16.18	16.33	16.44	16.5	16.53	16.64	16.68	16.718	16.97	16.891





River Great Ouse - Little Barford

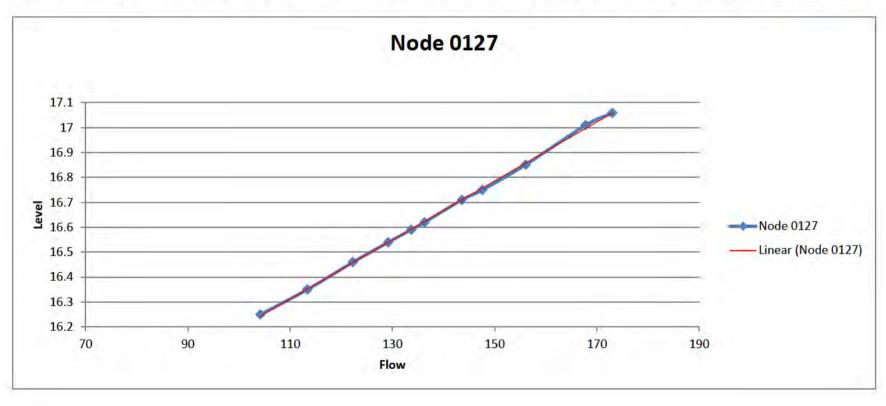
Node 0126						-1			1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	112.1	122	127.3	128.6	129.3	129.9	132.6	134.8	138.475	148.1	145.825
level	16.18	16.27	16.4	16.49	16.55	16.58	16.68	16.72	16.771	17	16.950





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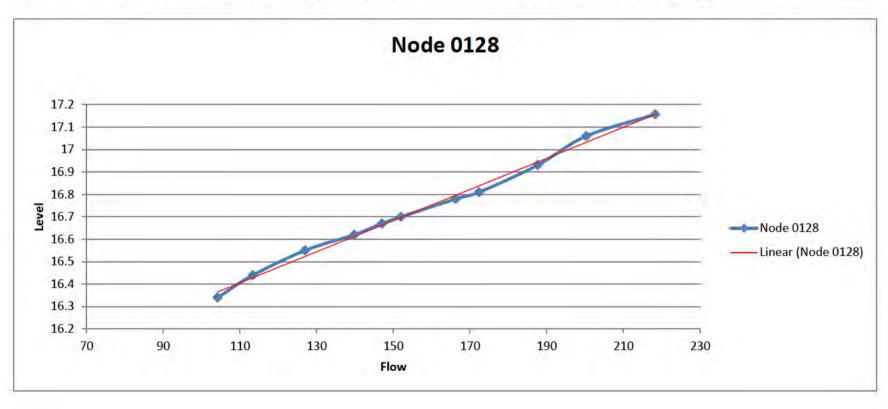
Node 0127						-11	141		1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	104.2	113.4	122.3	129.2	133.7	136.3	143.6	147.6	156.075	167.8	173.025
level	16.25	16.35	16.46	16.54	16.59	16.62	16.71	16.75	16.851	17.01	17.059





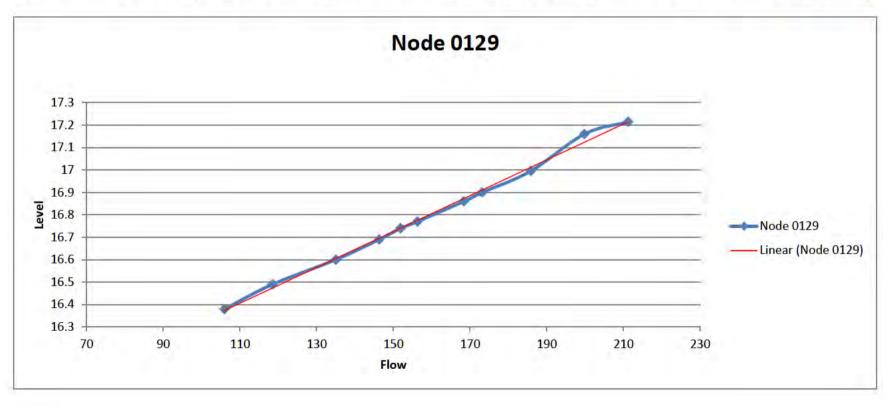
River Great Ouse - Little Barford

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AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	104.2	113.4	127	139.8	147	152	166.3	172.4	187.700	200.3	218.300
level	16.34	16.44	16.55	16.62	16.67	16.7	16.78	16.81	16.931	17.06	17.158





Node 0129						-11			1 in 100 plus		1 in 100 plus
AEP (%)	20.00%	10.00%	4.00%	2.00%	1.33%	1.00%	0.50%	1.00%	1.00%	0.10%	1.00%
Return Period (1inX)	5	10	25	50	75	100	200	100	100	1000	100
Additional CC %	0	0	0	0	0	0	0	20%	35%	0	65%
Flow	106	118.5	135	146.3	151.9	156.3	168.4	173.2	185.875	199.8	211.225
level	16.38	16.49	16.6	16.69	16.74	16.77	16.86	16.9	16.996	17.16	17.215





APPENDIX F

Title: SITE SPECIFIC FLOOD RISK ASSESSMENT Project: Alington Estate, Little Barford, Bedfordshire The Executors of the Late Nigel Alington Client:

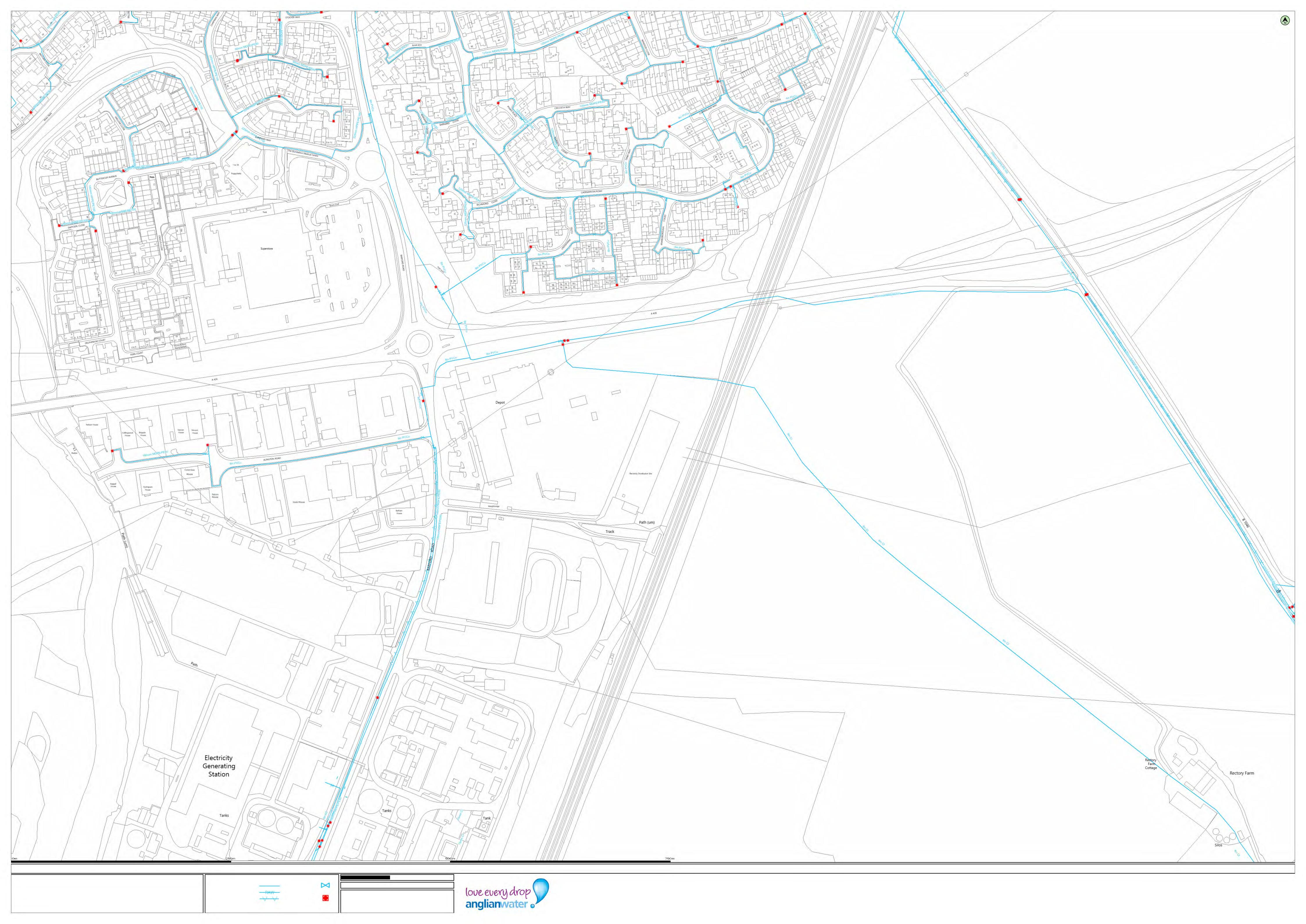
Project no: 60830



WATER

91 Market Street Hoylake Wirral CH47 5AA Tel. 0151 632 5142 enquiries@cornerstoneprojects.co.uk www.cornerstoneprojects.co.uk VAT Reg. No. 851 4941 19

Company No. 5132353

















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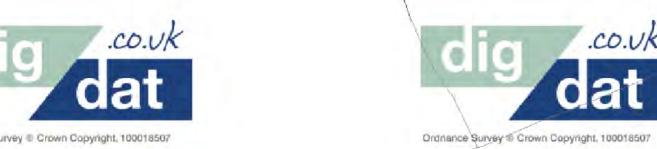
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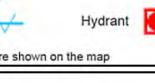
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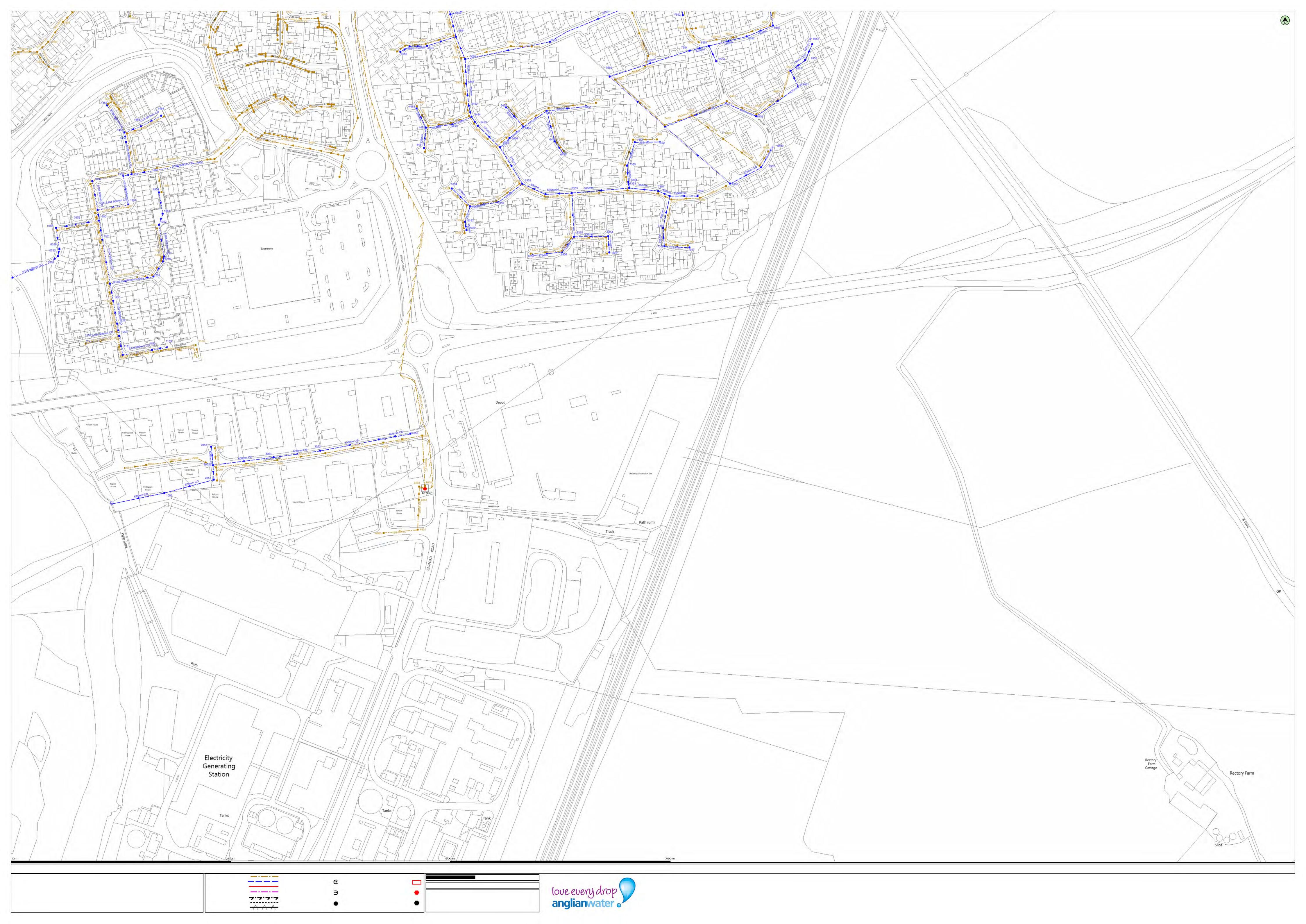


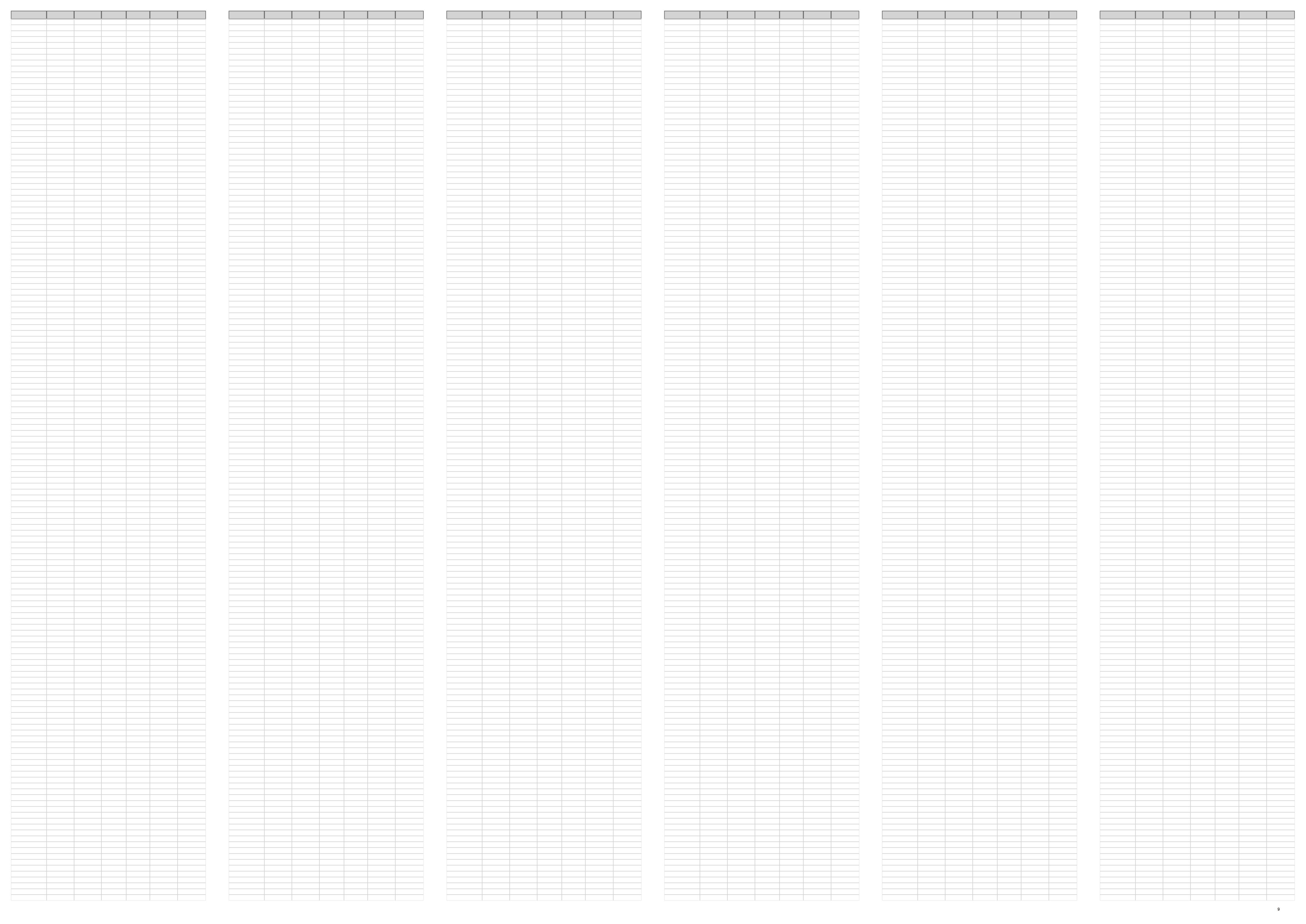


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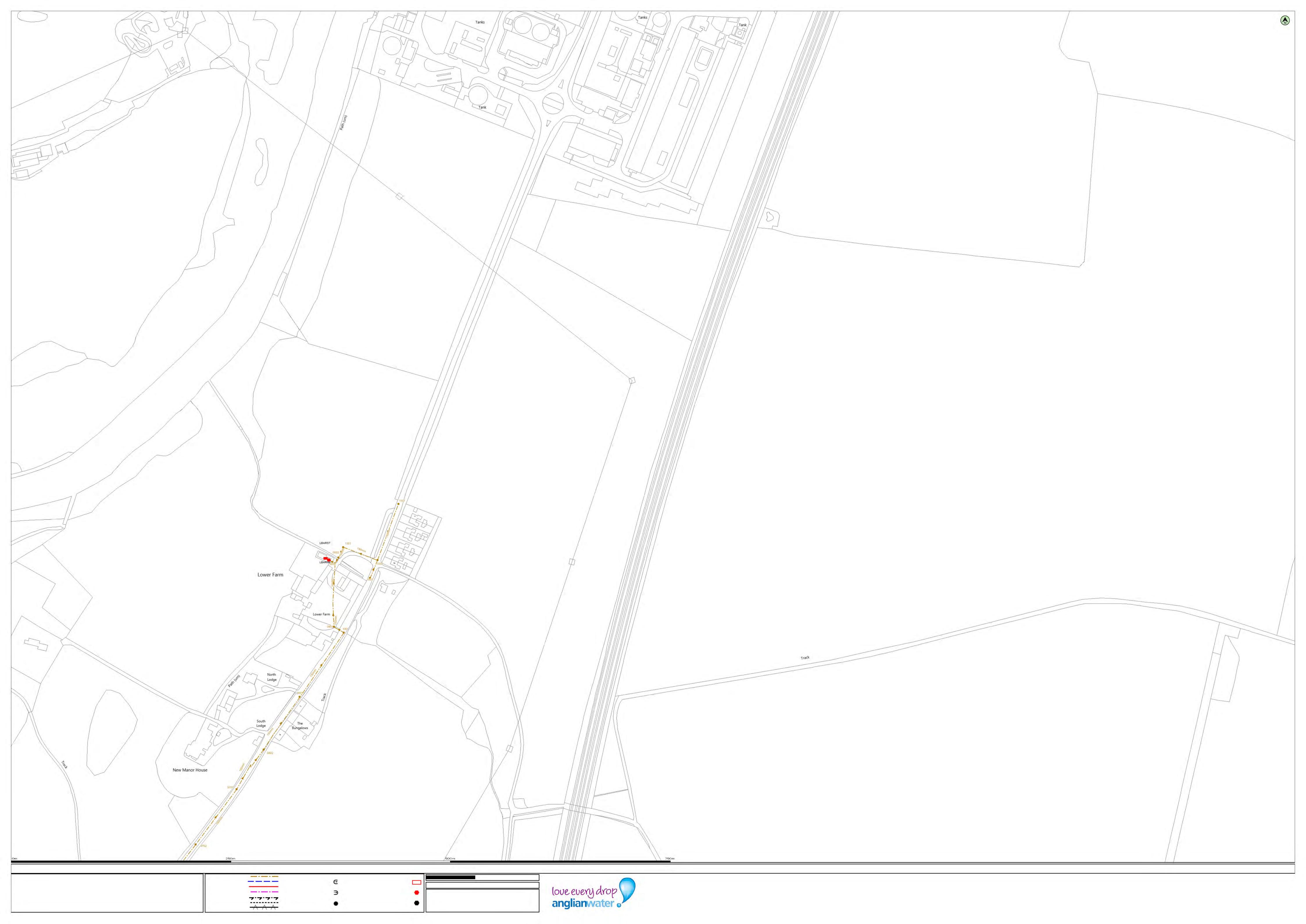
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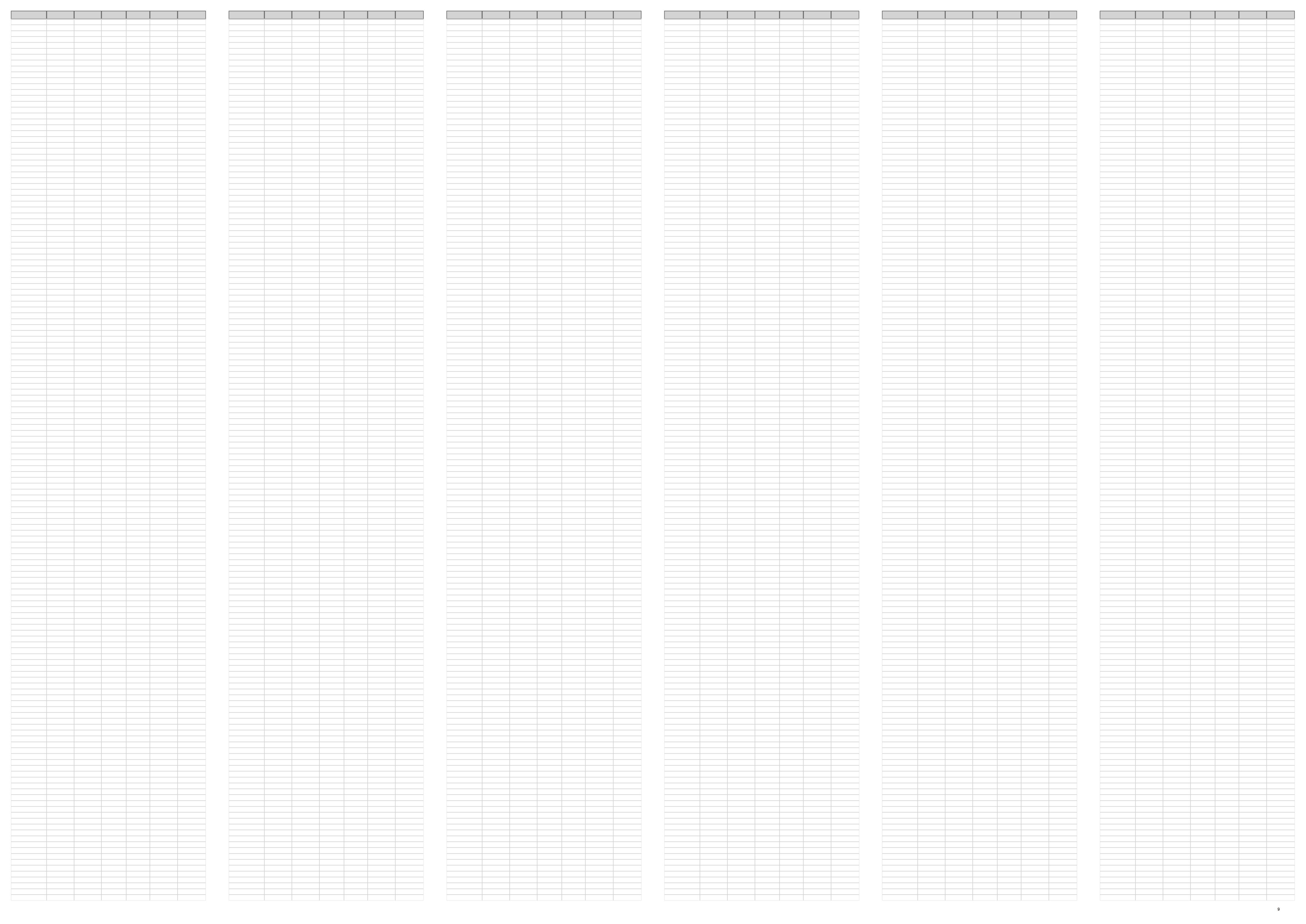
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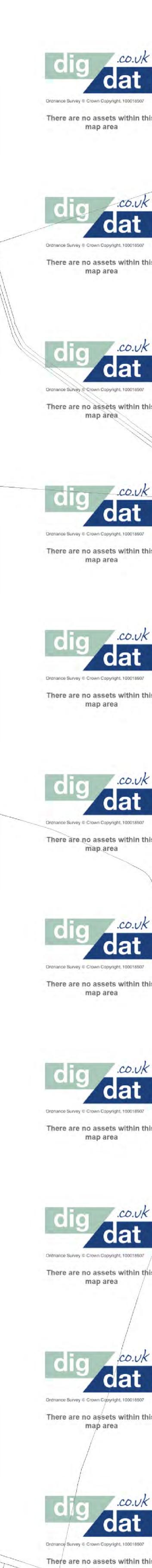
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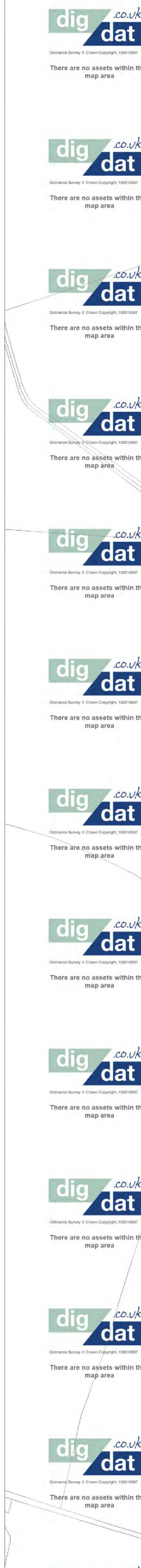


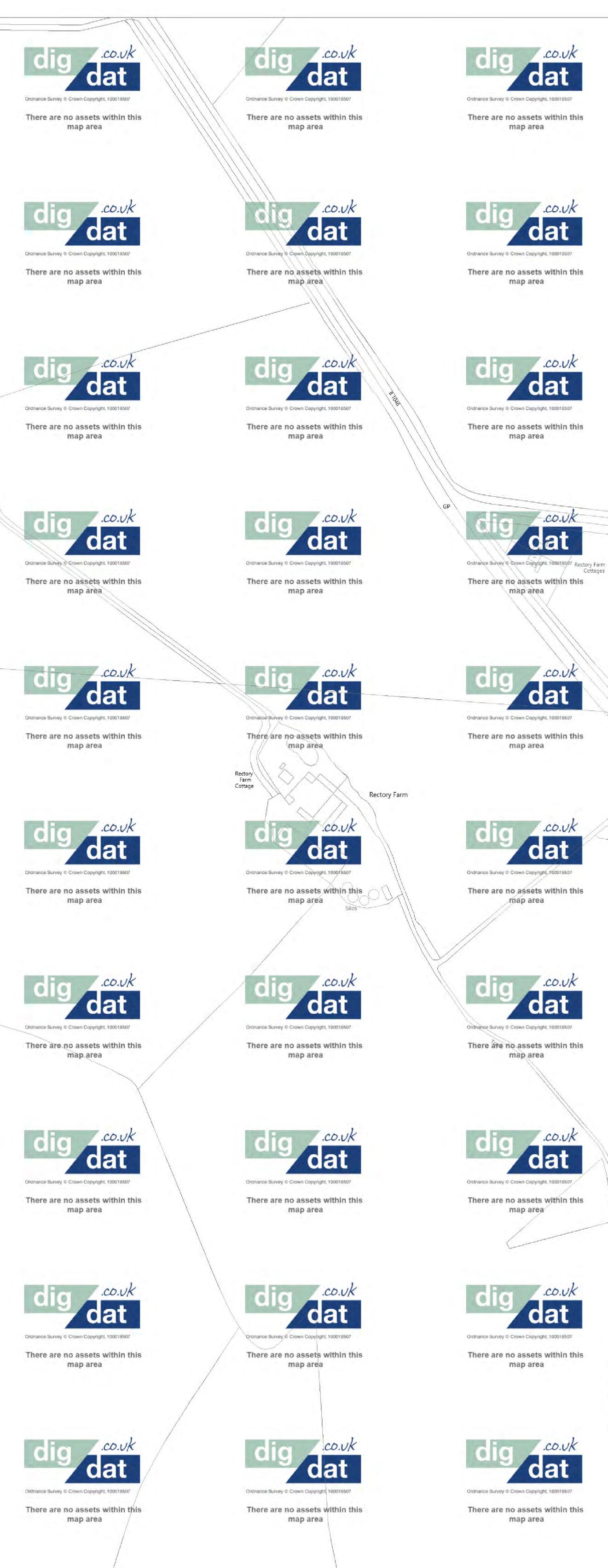


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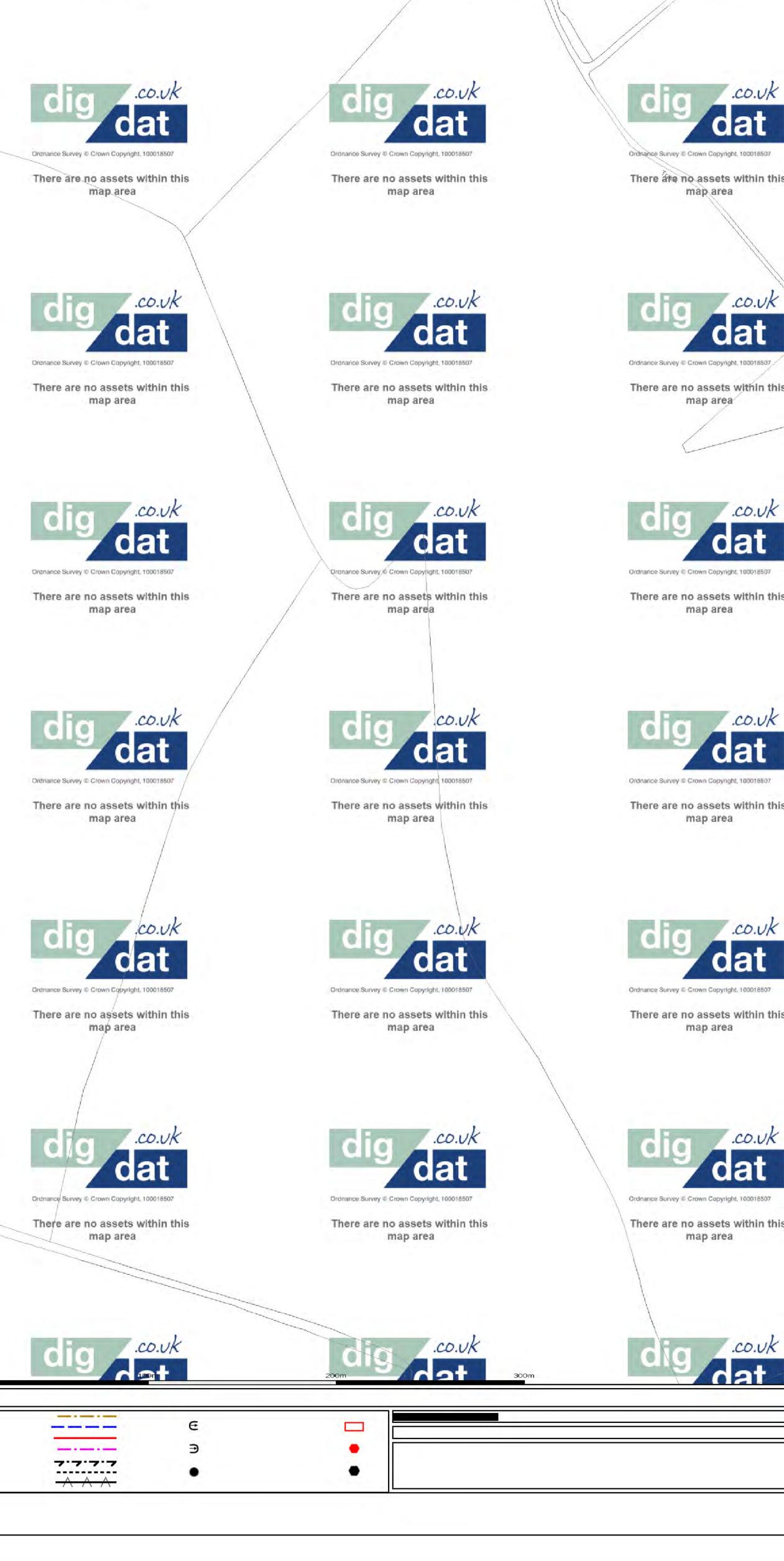






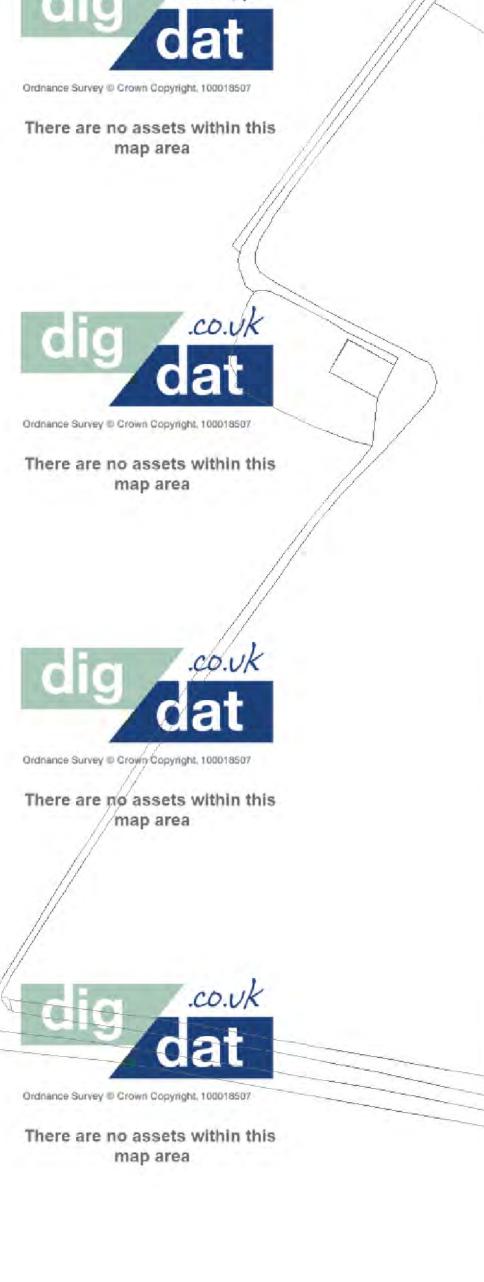


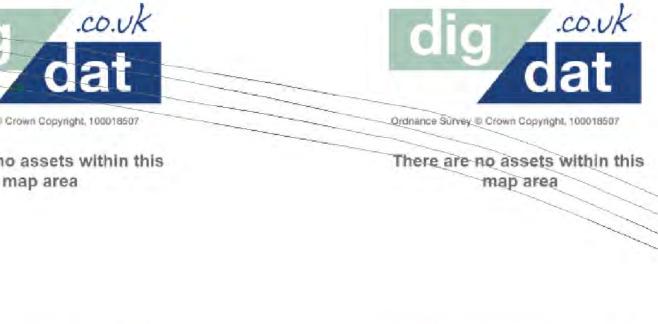






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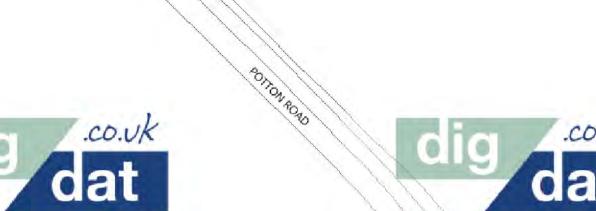
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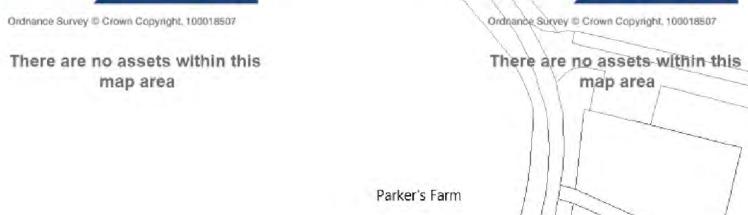
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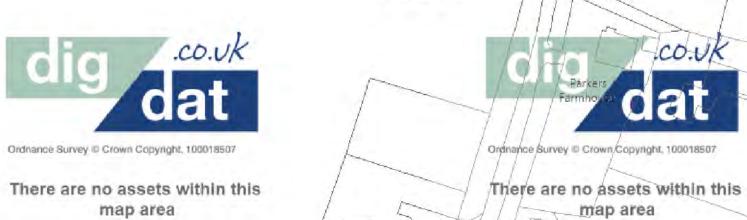
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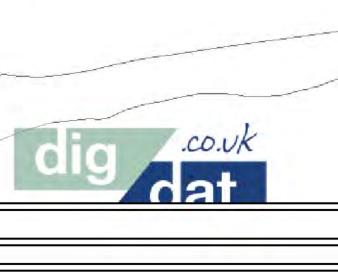
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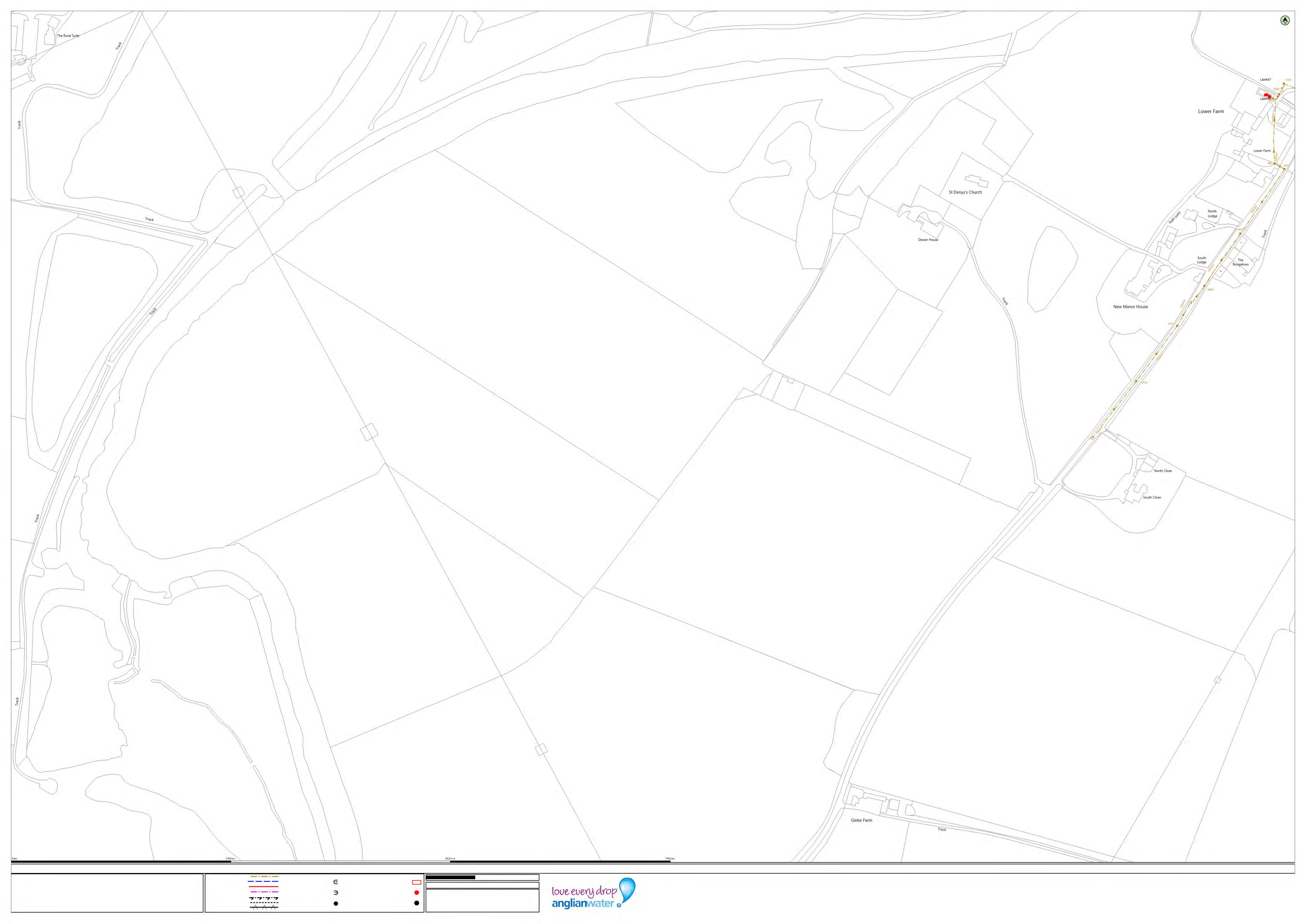


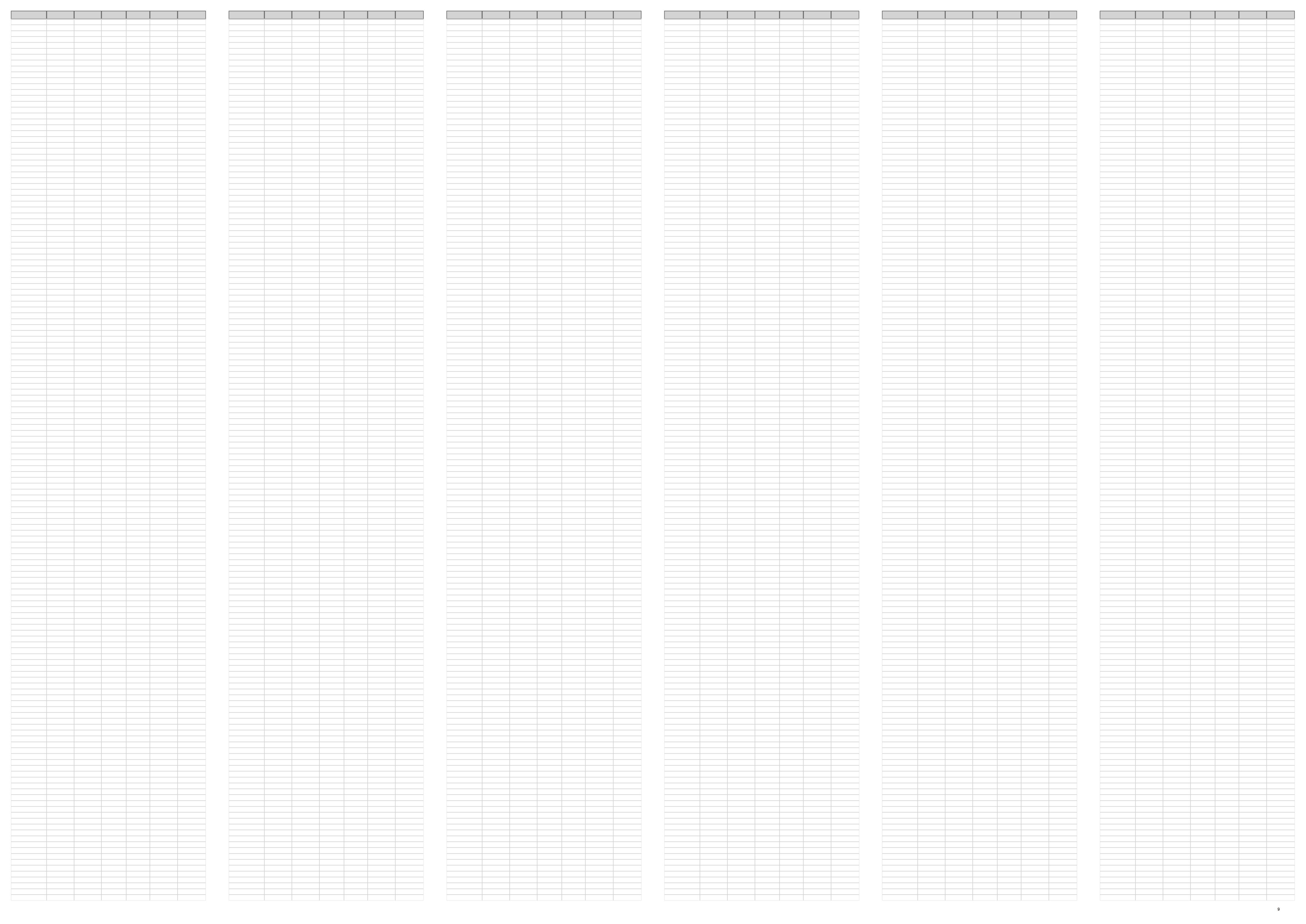






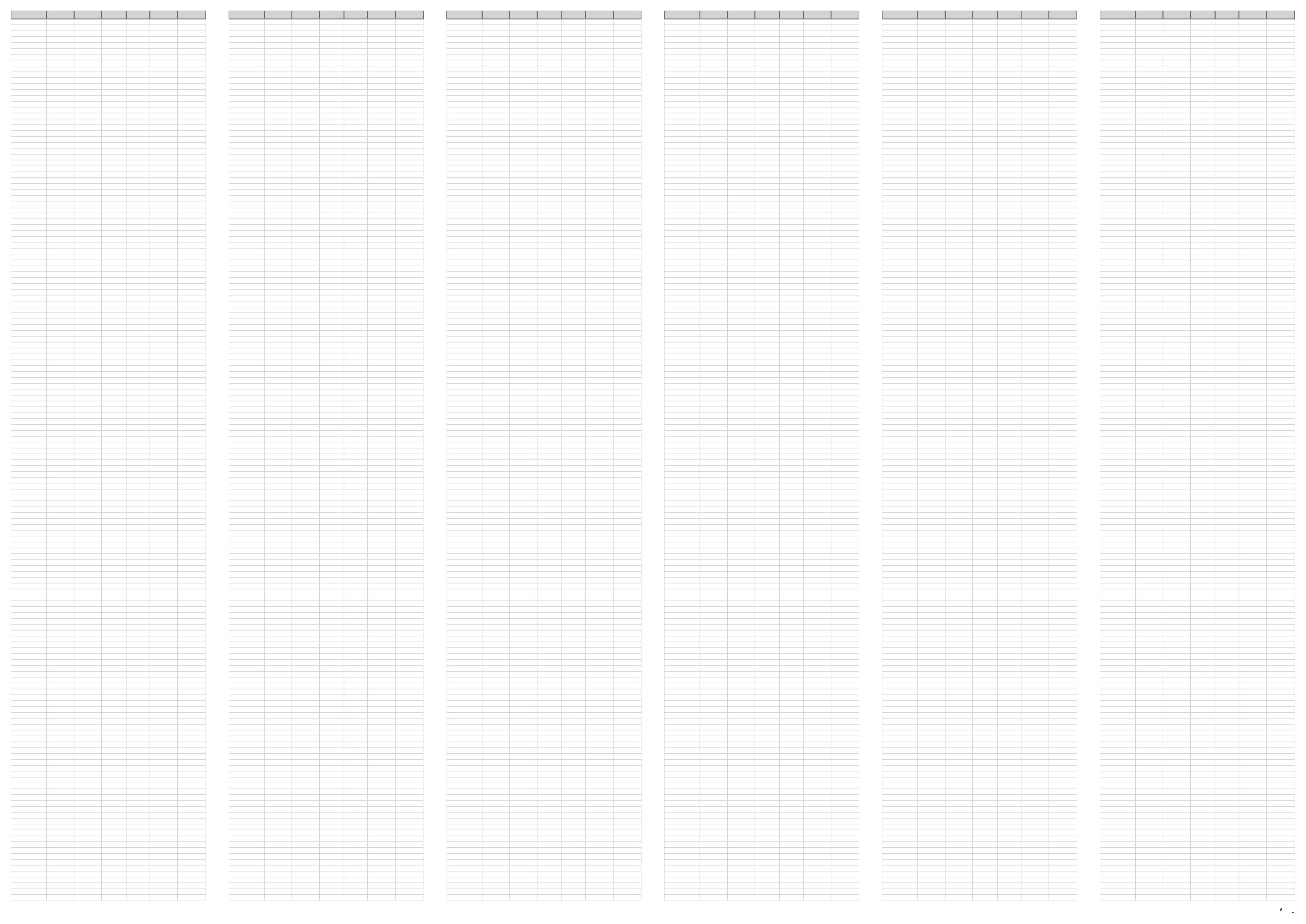
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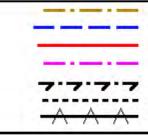
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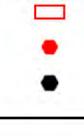
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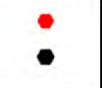


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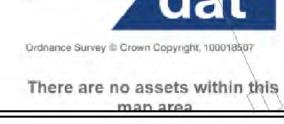


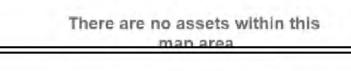






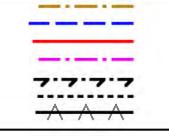


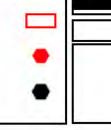




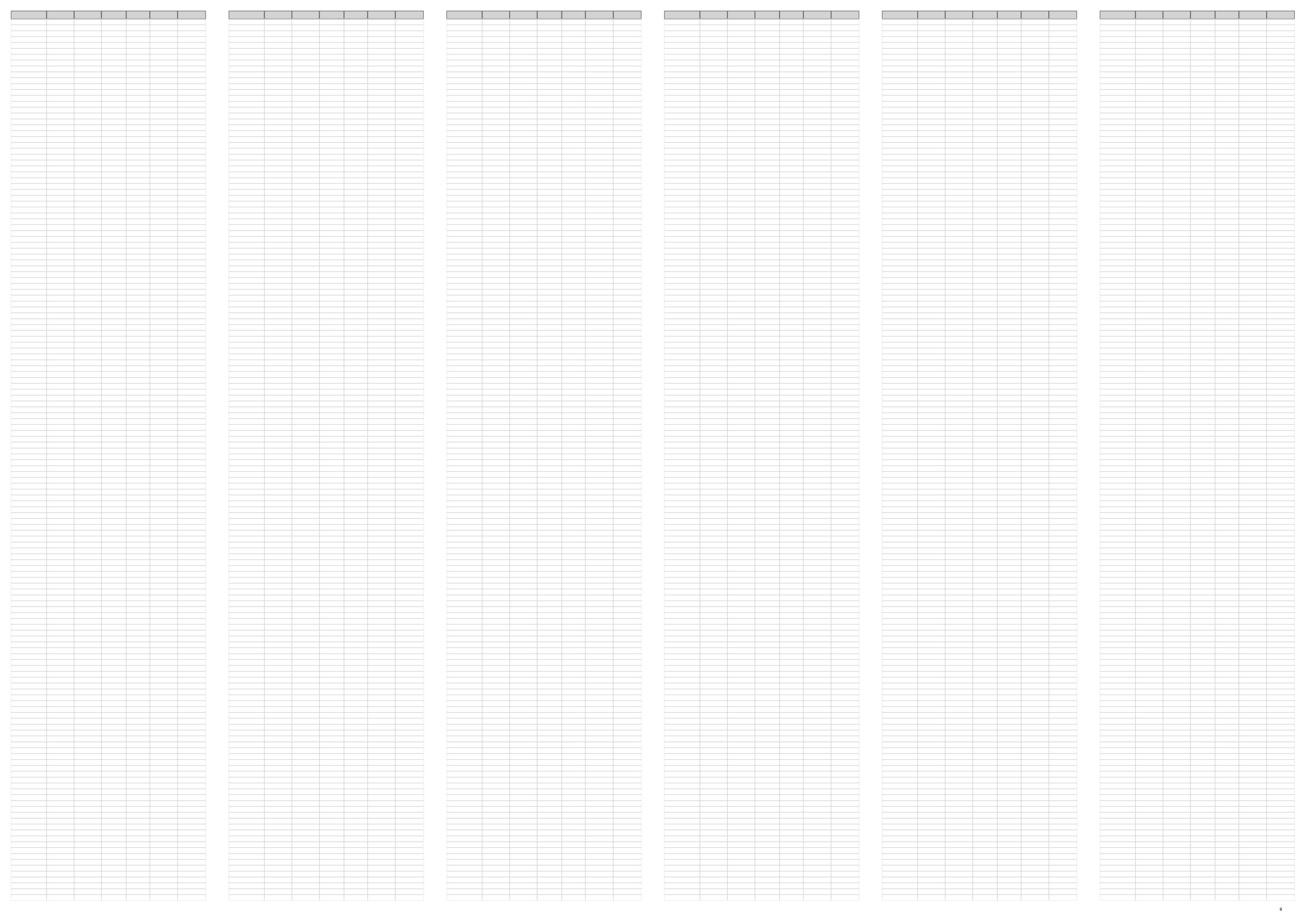












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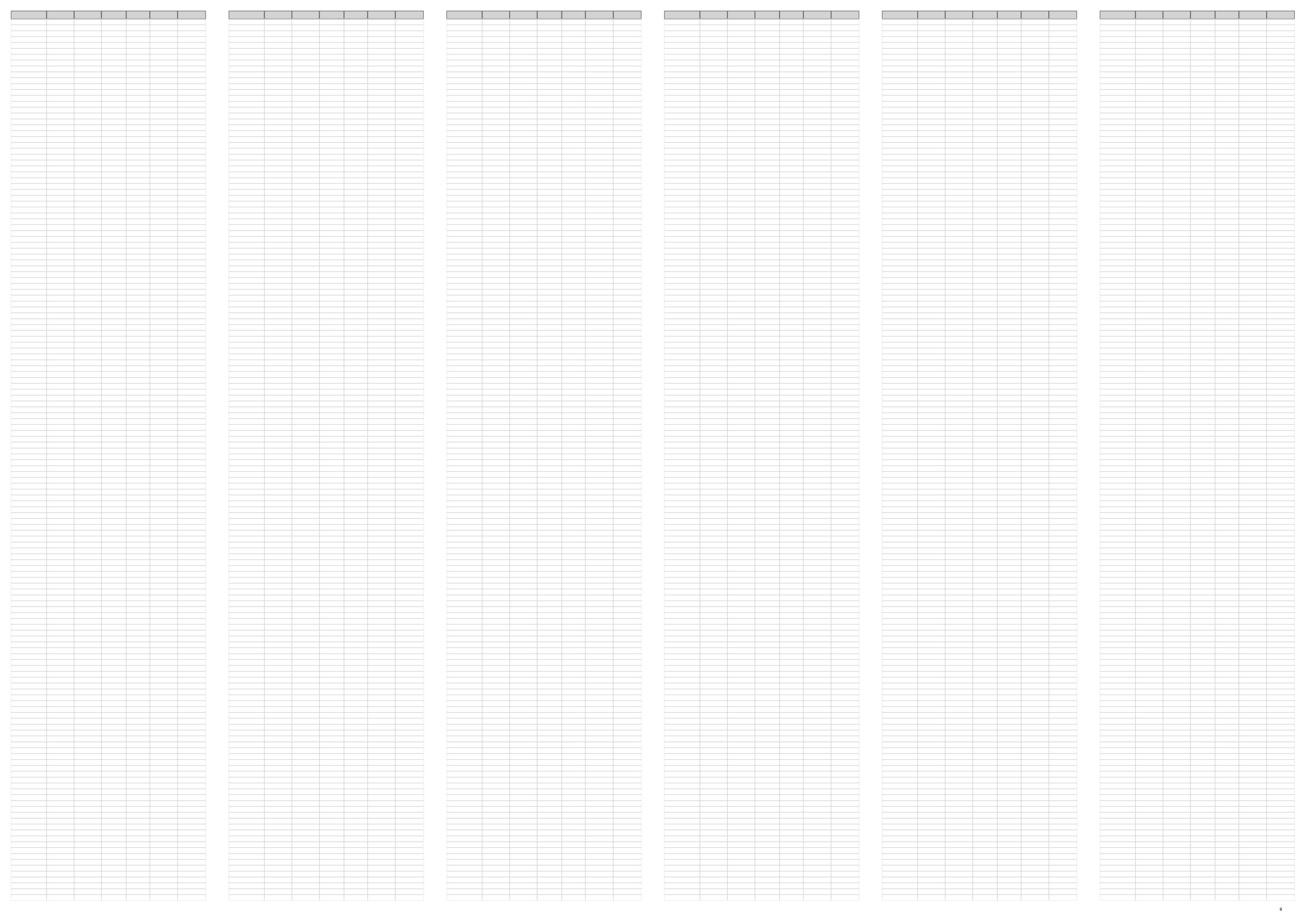
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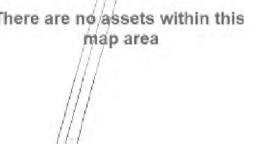
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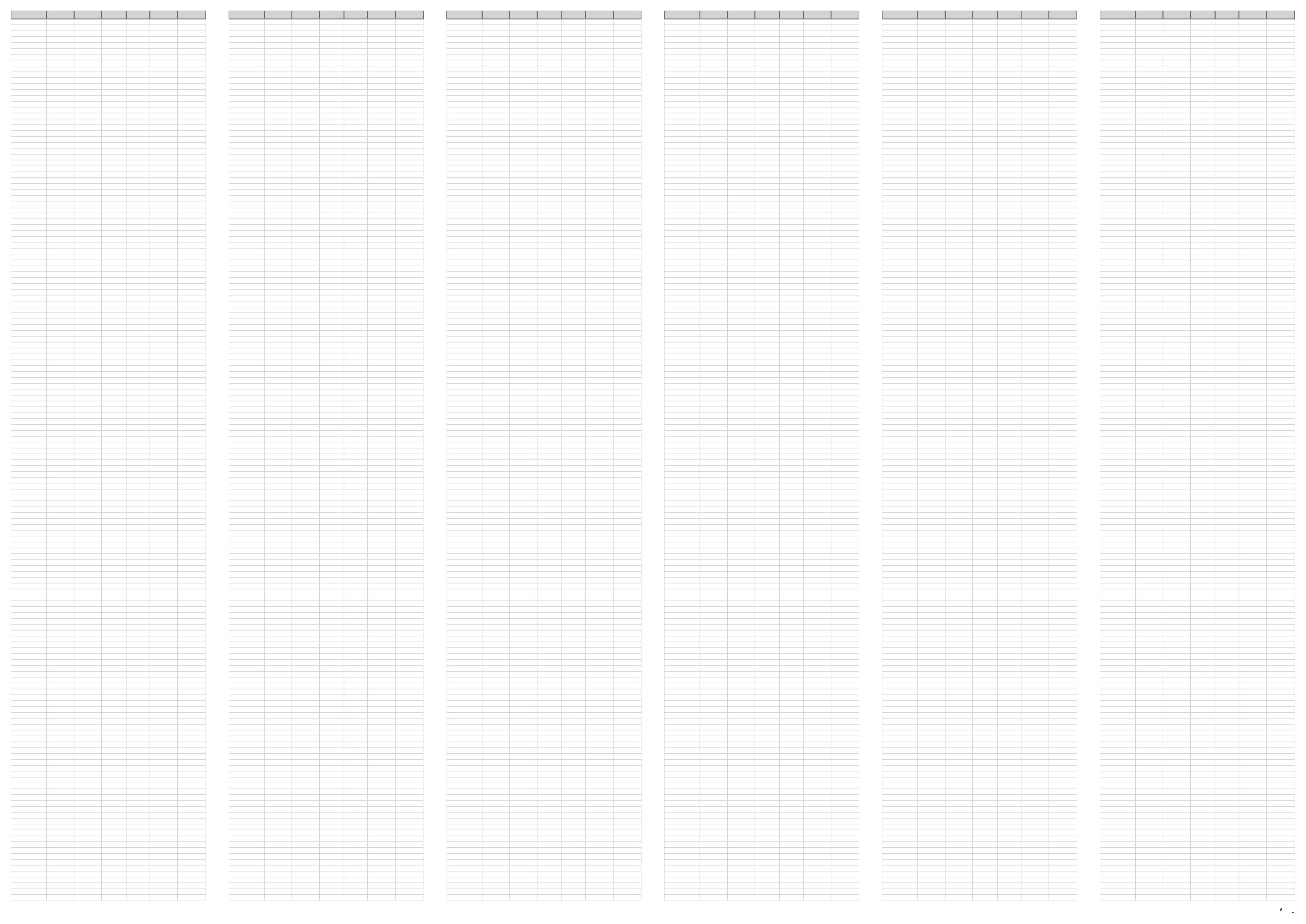
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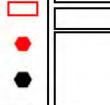
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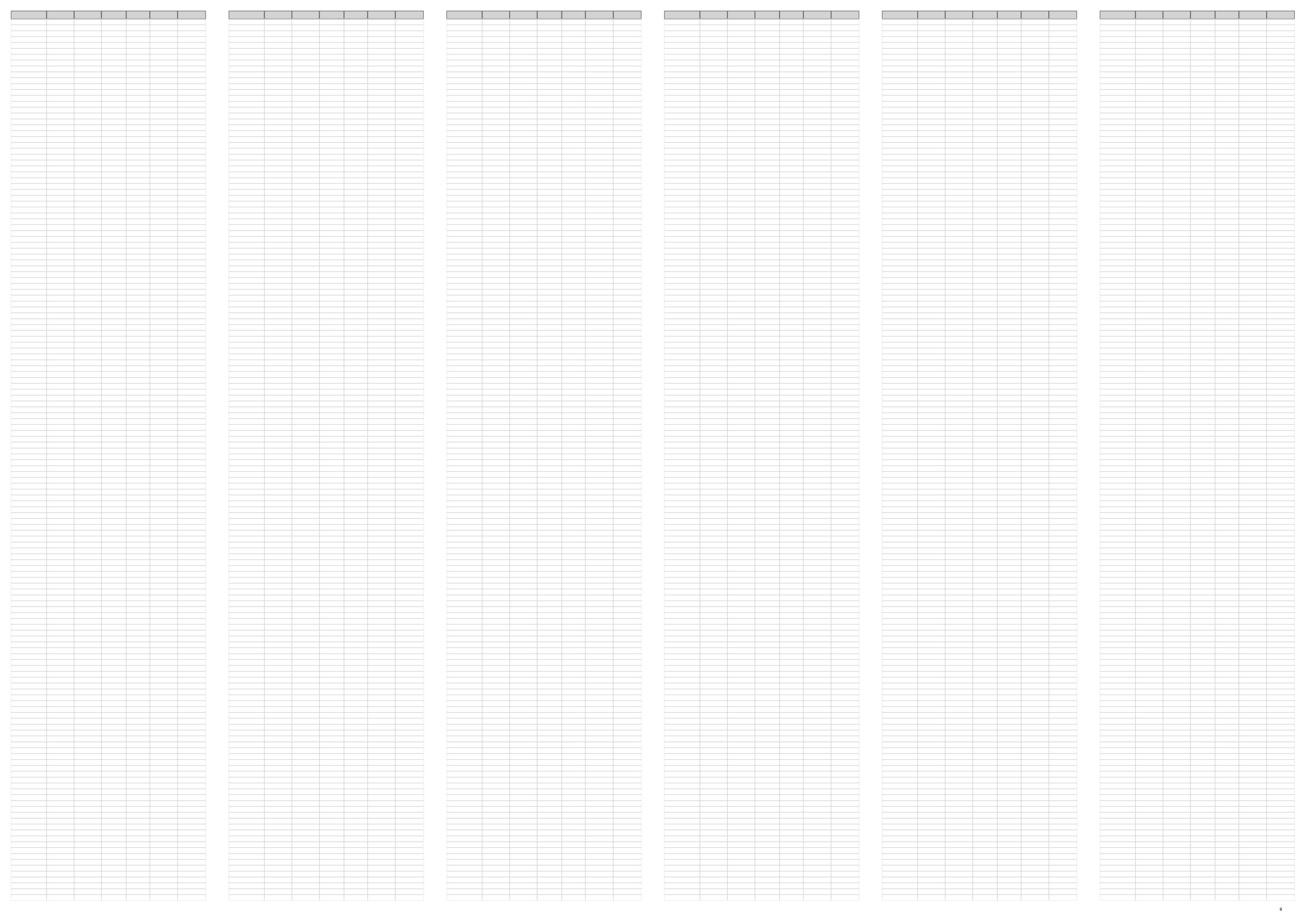
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