



Flood Risk Assessment

21T2034 – Cleator Moor Innovation Quarter Phase 2
LUF – Unit 9 & 12

Report Reference: LUF-BGP-09-XX-T-C-0002

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Flood Risk Assessment

Project: Cleator Moor Innovation Quarter Phase 2 LUF – Unit 9 & 12

Client: Cumberland Council

LLFA: Cumberland Council

BGP Job No: 21T2034

Document Checking:

Prepared By: J Herbert – Associate Director *BEng (Hons) IEng MICE*



Checked By: J Conway – Director *BSc CEng MICE*



Issue	Date	Status	Checked for Issue
P01	22/09/2022	Planning	JC
P02	23/11/2023	Planning	JC
P03	09/01/2025	Planning	JC
P04	13/09/2025	Planning	JC
P05	01/10/2025	Planning	JC
P06	07/11/2025	Planning	JC
P07	28/11/2025	Planning	JC

This document has been prepared solely as a Flood Risk Assessment for Cumberland Council regarding the proposed scheme at land off Leconfield Street, Cleator Moor. Billinghurst George & Partners accepts no responsibility or liability for any use that is made of this document other than by the Client for which it was originally commissioned and prepared.



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1. Introduction

- 1.1. This Flood Risk Assessment has been prepared in accordance with the requirements of The National Planning Policy Framework (Ministry of Housing, Communities and Local Government – December 2024) [The Framework] and the Planning Practice Guidance to the National Planning Policy Framework Website (Launched 6th March 2014) [The Technical Guidance].
- 1.2. This report has been prepared to supplement the planning application for the proposed development on land off Leconfield Street, Cleator Moor, Cumbria. See Appendix A for the site location plan.
- 1.3. The proposals are to construct two new industrial start up units for business accommodation on the brownfield site that previously comprised an industrial unit, this is now demolished with the existing floor slab remaining insitu. The adjacent parcel of greenfield of land is located to the southeast of the existing slab.
- 1.4. To support the planning application the BGP Drainage Philosophy (21T2034 – Drainage Philosophy Revision P06) is provided as a separate document.



2. Existing Site Description and Location

2.1. Site Location

- 2.1.1 Site Name: Leconfield Industrial Estate
- 2.1.2 Site Address: Land off Leconfield Street, Cleator Moor
- 2.1.3 OS Grid Reference: E: 301649, N: 515500
- 2.1.4 National Grid Reference: NY016155

2.2. Site Description

- 2.2.1 Site Area: 3.17 Ha
- 2.2.2 Site Area to be developed: 1.487 Ha
- 2.2.3 Existing Land Use: Industrial Building (now demolished)
- 2.2.4 Proposed Land Use: Industrial Units/Yard and Car Parking
- 2.2.5 Local Planning Authority: Copeland Borough Council
- 2.2.6 Sewer Undertaker: United Utilities (UU)
- 2.2.7 At approximately 3.17 Ha in size the Brownfield site is located approximately 5.15km southeast of Whitehaven and approximately 18km southwest of Cockermouth. The site currently comprises existing service yards, old building footprints and part soft landscaping. The site is bound by woodland and grass to the northern, eastern and southern boundary, existing industrial buildings and demolished building footprints to the west. See Appendix E for topographic survey.

2.3. Flood Zone (Table 1 NPPF)

- 2.3.1 The development lies within Flood Zone 1. (See Appendix C for Flood Maps).

2.4. NPPF Site Classification (Table 2 NPPF)

- 2.4.1 The vulnerability classification for 'Buildings used for shops, financial, professional and other services, restaurants and cafes, hot food takeaways, offices, general industry, storage and distribution, non-residential institutions not included in "more vulnerable", and assembly and leisure' is "Less Vulnerable".



2.5. Flood Zone “Compatibility” (Table 3 NPPF):

Table 1 – NPPF Flood Zone Compatibility (Table 3 within NPPF)

	Essential Infrastructure	Highly Vulnerable	More Vulnerable	Less Vulnerable	Water Compatible
Flood Zone 1	Yes	Yes	Yes	Yes	Yes
Flood Zone 2	Yes	Exception test required	Yes	Yes	Yes
Flood Zone 3a	Exception test required	No	Exception test required	Yes	Yes
Flood Zone 3b	Exception test required	No	No	No	Yes

2.5.1 The proposal to construct the LUF2 Industrial Start-Up units on land off Leconfield Street is acceptable in terms of flood risk in accordance with Table 3 of the NPPF (above).

2.6. Sequential Test

2.6.1 As the site is located within Flood Zone 1, the sequential test does not need to be applied.

3. Definition of the Flood Hazard

3.1. Tidal Flood Risk

The site is approximately 5.5km from the sea and located between elevations of approximately 83.2m AOD to 82.6m AOD. It is therefore considered that the site will not be affected by flooding from the sea.

The risk of flooding from the sea is categorised as **LOW**.

3.2. Fluvial Flood Risk

The nearest named watercourse is Nor Beck, which, where open, is located 100m north of the site. Through CCTV investigation it is evident that it is culverted at a point northwest of site and runs southwest into Leconfield Industrial Estate and through to Leconfield Street. Nor Beck culvert continues southwest through Norbeck Park and adjacent fields ultimately converging with the River Keekle.

There are no other named or unnamed watercourses within close proximity to site.

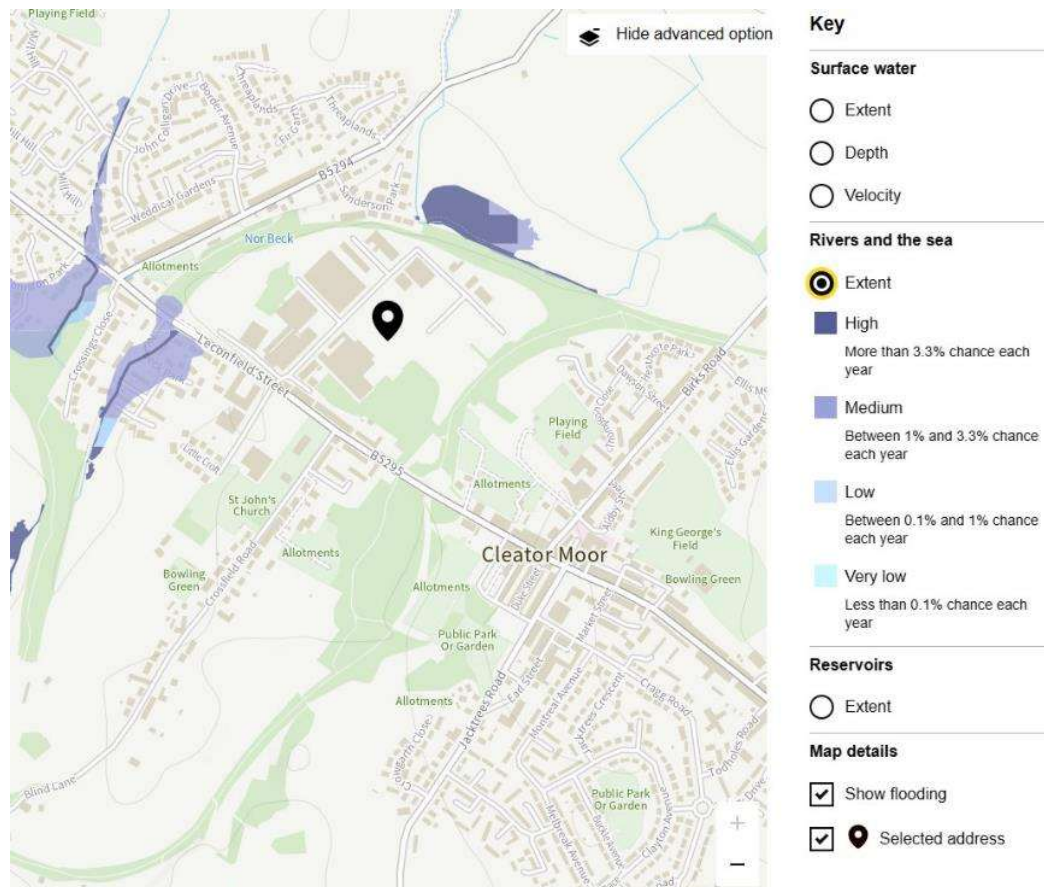


Figure 1 – Environment Agency Flood Map for Planning

The Copeland Borough Council Strategic Flood Risk Assessment (SFRA) Level 1 report has been reviewed. This states that there are no incidents of historical flooding within the site.

The Environment Agency 'Flood Map for Planning' (Figure 1 and Appendix C) shows that the proposed site is unaffected by this or any other watercourse and is wholly within Flood Zone 1. Flood Zone 1 is land that is assessed as having less than a 1 in 1000 (0.1 percent) chance of flooding each year.

It is considered that the risk of flooding to the site from fluvial sources is categorised as **LOW**.

3.3. Overland Flood Risk

Intensive rainfall, often of short duration, that is unable to soak into the ground or enter drainage systems can run quickly off land and result in localised flooding.

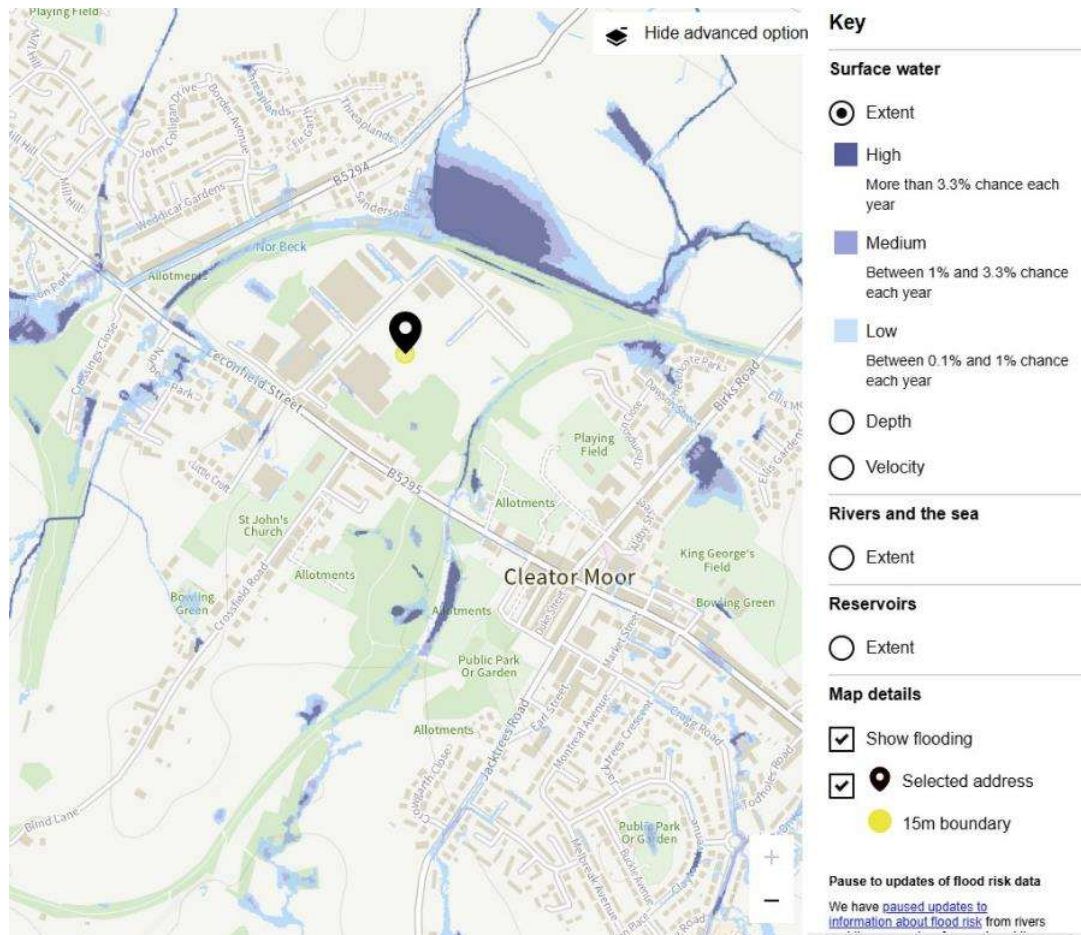


Figure 2 – Environment Agency Surface Water Flooding Map for Planning

Figure 2 'Surface Water Flooding Map for Planning' shows that the site is for the majority at 'Very Low' (<0.1%) risk to surface water flooding with a small areas of 'Low' risk evident within the existing site access road.

The site is relatively flat at an approximate level of between 83.2m and 82.6m AOD, falls existing within the existing storage yard to provide drainage falls to gullies.

The low risk area's of surface water flooding indicated within Figure 2 are as mentioned along the existing access road where gullies are located at low points. This level of surface water flooding likely occurs due to gullies not being maintained. It is anticipated that through the



development of the site, cleaning of gullies and introduction of positive drainage systems throughout that these areas will be alleviated.

Based on the above, the existing risk of flooding from overland sources is categorised as **LOW**.

3.4. Groundwater Flood Risk

Groundwater flooding occurs when water levels in the ground rise above surface elevations. It is most likely to occur in low lying areas underlain by permeable rocks.

A 'Phase 2 Site Investigation' have been carried out by Solmek dated March 2024. (Report No. S240720).

The Phase 2 Site Investigation reveals that ground conditions comprises:

- Made ground was generally encountered to depths of between 1.50mbgl and 9.00mbgl. In the northwest of the site, the made ground varied between just 0.32 and 0.54m.
- Firm to stiff (locally soft) sandy gravelly medium to high strength clay was encountered (1.90-6.30m thick)
- Locally, bands of dense to very dense granular material were encountered (0.30-5.60m thick).
- Rockhead between 6.80 & 12.30mbgl, generally comprising sandstones and mudstones.
- Groundwater was encountered locally, with shallow perched strikes within the made ground at 0.45-1.95mbgl, localised strikes within the drift between 5.00 and 9.10mbgl, and localised strikes at depth within the solid geology, between 22.00 and 35.50mbgl.

Therefore, the risk of flooding to the proposed site from ground water is therefore categorised as **LOW**.

3.5. Flooding from Sewers

See Appendix D for locations of existing United Utilities public drains. Several United Utilities combined drains and manholes are located toward to primary access of Leconfield Industrial Estate. The 225-300mm diameter combined sewers drain from southeast to northwest along Leconfield Street in keeping with the topography of the highway.

A United Utilities 600mm diameter combined sewer is located just beyond the north western boundary, which drains southwest.

The overall existing site is currently served by wastewater systems through an existing network of separate private sewers. The surface water run off from the site currently discharges to the culverted Nor Beck watercourse in two locations, one to the west and the other to the northwest of the development site. The foul water flows from the site currently discharge to the existing 675mm diameter United Utilities sewer located to the west of site.

Therefore, the main sources of flood risk from sewers will be from the United Utilities adopted sewers, any existing private drainage and all proposed drainage. These sources include:

- Any flooding from the UU combined sewer located toward the primary access to Leconfield Industrial Estate would flow away from the site due to the elevation of the site being higher than the surrounding levels. Combined sewers are less prone to flooding and the likelihood of the sewers flooding is minimal as it is adopted and maintained by UU.



- Any flooding from the UU combined sewer located northwest of the site would flow away from the site due to the elevation of the site being higher than the surrounding levels. Combined sewers are less prone to flooding and the likelihood of the sewers flooding is minimal as it is adopted and maintained by UU.
- All proposed drainage is to be designed in accordance with current best practices and follow the requirements of the Lead Local Flood Authority in order to obtain planning permission. As such, the proposed drainage system would need to be designed in order to prevent flooding to buildings for rainfall events up to and including the 1 in 100-year event with an additional 50% increase allowance for climate change. Therefore, the expected risk of flooding from proposed drainage would be low.

Based on the above the risk of flooding from sewers is categorised as **LOW**.

3.6. Flooding from Artificial Sources

Based on the Environment Agency map 'Flood Risk from Reservoirs' the site is not at risk from any artificial sources such as reservoirs.

The risk of flooding from artificial sources is categorised as **LOW**.

4. Probability of Flooding

- 4.1. The Environment Agency maps have been reviewed (see Appendix C). The entirety of the site is identified as being in Flood Zone 1 as categorised by the National Planning Policy Framework (NPPF) and Technical Guidance.
- 4.2. Flood Zone 1 describes the land assessed as having a less than 1 in 1000 annual probability of river or sea flooding in any one year.
- 4.3. The Cumberland Council Strategic Flood Risk Assessment (SFRA) Level 1 report has been reviewed. This states that there are no incidents of historical flooding within the site.
- 4.4. The previous section describes other flood hazards and the risk they pose to this project. A summary of the existing flood risk and the mitigation required is provided within Table 2 below.
- 4.5. Based on the previous section the overall assessment of the probability of flooding to the site is **LOW**.

Table 2 – Summary of existing flood risk and mitigation strategies

Flood Risk Source	Current Risk Level	Mitigation Requirement during detailed design	Risk Level following Mitigation
Tidal and Fluvial Flooding	LOW	Development areas are located in Flood Zone 1. No mitigation required.	LOW
Surface Water	LOW	Development areas are located in Flood Zone 1. No mitigation required.	LOW
Groundwater	LOW	Development areas are located in Flood Zone 1. No mitigation required.	LOW
Sewer Flooding	LOW	Any flooding from UU sewers within the surrounding area due to blockages or following intense rainfall periods would be directed away from site as the development is located at a higher elevation than surrounding drains. Mitigation measures: - Ensure all proposed drainage is designed in accordance with best practices with an allowance for climate change. - Design proposed levels to direct surface water around buildings or structures that could form a barrier and away from building entrances.	LOW
Artificial Sources	LOW	The site is not at risk from any artificial sources according to the EA map 'Flood Risk from Reservoirs'.	LOW

5. Climate Change

- 5.1. NPPF Planning Practice Guidance website provides information on the impacts of climate change, which include sea level changes, river flash flooding and more frequent high intensity, short-duration rainfall. These are based on the Environment Agency current recommendations.
- 5.2. As concluded previously the risk of flooding from all sources is low. Therefore, these sources of flood risk are unlikely to be affected by climate change.

6. Detailed Development Proposals

- 6.1. The proposals are to construct two new industrial units for business accommodation on the brownfield site that previously comprised an industrial unit, this is now demolished with the existing floor slab remaining insitu. The adjacent parcel of greenfield of land is located to the southeast of the existing slab. See Appendix A for site location plan.
- 6.2. The proposed site layout within Appendix B shows the extents of the new buildings and car parking. The car park and buildings will be accessible via existing Leconfield Industrial Estate access roads.
- 6.3. The current use means that the surface water drainage discharge rate will need to be kept as close as practicable to Brownfield rates as per the Cumbria County Council SuDS Adoption Guidance for Major Developments.
- 6.4. The proposed attenuation is to be designed to store surface water for rainfall events up to and including the 1 in 100 year with an allowance for climate change based on current Environment Agency recommendations. This volume will be based on the proposed impermeable surfaced area and the surface water discharge rate which is to be agreed with the Lead Local Flood Authority and the Environment Agency due to surface water being discharged to a watercourse.
- 6.5. Further details of the proposed drainage works are available in the 'Drainage Philosophy' report (21T2034 – Drainage Philosophy Revision P06) by BGP that is submitted as part of this planning application.



7. Flood Risk Management Measures

As stated in previous sections, the site is at low risk of flooding from tidal, fluvial, sewer, overland, groundwater and artificial sources post development. All impermeable areas will be positively drained via a suitable drainage system.

Surface water attenuation will be provided within the proposal to accommodate the 1 in 100 year storm, with an allowance for climate change based on current Environment Agency recommendations.

8. Off Site Impacts

The proposals for this site should not increase the flood risk elsewhere off site for the following reasons: -

- The proposed surface water discharge rate will be restricted as close as reasonably practicable to Brownfield runoff rates and agreed with the Lead Local Flood Authority and Environment Agency.
- The impermeable areas within the site will be positively drained via a proposed drainage network.
- The site will allow extreme rainfall event flow routes to pass along the site perimeter, retaining flora and fauna.

9. Residual Risks

Recommendations have been made within Section 7 to mitigate against any flood sources that pose any significant risk to the proposed site. All sources of flooding have been considered and the conclusion is that any residual risks are negligible.



10. Conclusions

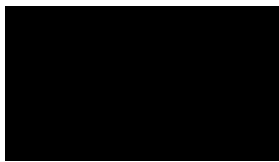
From the analysis through it can be seen that the risk to the proposed LUF2 Industrial Start-Up units, yards and car parking on the brownfield land within Leconfield Industrial Estate is **LOW** from all forms of flooding following mitigation as categorised in the Framework and Technical Guidance. This confirms the flood designation for the site.

The proposed uses of land are appropriate in this Flood Zone. (Tables 1, 2 & 3 of the Technical Guidance).

This report has been prepared with reference to the information available at the time of writing. The summary and recommendations may be revised upon receipt of additional or further information.

Report No: LUF-BGP-09-XX-T-C-0002

Report Title: Flood Risk Assessment – Cleator Moor Innovation Quarter Phase 2 LUF – Unit 9 & 12



James Herbert – Associate Director *BEng (Hons) IEng MICE*

Date: 28/11/2025



Jim Conway – Director *BSc CEng MICE*

Date: 28/11/2025

For and on behalf of Billingham George & Partners



Appendix A

Site Location Plan



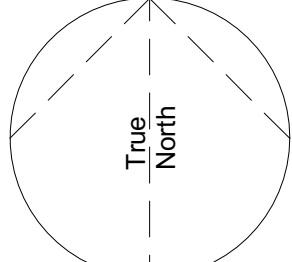
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Constructors must only work to figured dimensions which are to be checked on site. Do not scale from hard copy drawings.

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Keyplan	North Arrow 
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The image contains three logos. On the left is the NORR logo, featuring the word 'NORR' in a large, bold, dark blue sans-serif font, with 'NORR Consultants Limited. An Ingenium International Company' in a smaller, dark blue sans-serif font below it. In the center is the Cumberland Council logo, which includes a stylized green flower with five petals and a green center, flanked by two wavy lines (one blue, one green) on each side, and the text 'Cumberland Council' in a bold, black serif font below the flower. On the right is the Morgan Sindall Avison Young logo, featuring the words 'MORGAN' and 'SINDALL' in a bold, black sans-serif font, with a blue horizontal line under 'MORGAN', and the words 'AVISON' and 'YOUNG' in a bold, black sans-serif font, with a black horizontal line under 'AVISON'.

Project CUMBERLAND COUNCIL		Drawing Title SITE - LOCATION PLAN	
Project CLEATOR MOOR INNOVATION QUARTER LECONFIELD SITE - PLOTS 9 & 12			
Drawing LC	Date 10.02.25	Sheet Status PL - PLANNING	
Checked PB	Date 10.02.25	Project No. IANC23-0025	
Scale As indicated @ A1		Drawing No. LUF-NOR-ZZ-ZD-A-90000 (P)	Rev. P03



Appendix B

Proposed Site Layout

©One-Environments Ltd. This drawing is not to be scaled. All dimensions to be verified on site prior to commencement of works. Discrepancies, ambiguities and/or omissions between this drawing & information supplied by others must be reported immediately for clarification before proceeding

- NOTES
- Redline Boundary
- Ornamental Planting
- Hedgerow
- Wildflower Meadow/ Species Rich Grassland
- Native Woodland Mix
- Pollinators Mix
- Existing Vegetation to be retained
- Proposed Trees
- Vehicular Grade Asphalt
- Pedestrian Grade Asphalt
- Building Edge Concrete Block Paving
- Gravel
- Concrete Hardstand
- Permeable Concrete Paving Type 1
- Permeable Concrete Paving Type 2
- Tactile Blister Paving
- Tactile Corduroy Paving
- 6no. Cycle Stands
- Door Guards
- EV Charger Kiosk
- Active EV Bays
- Passive EV Bays
- Street Lights
- Bin Store
- MCCB
- Substation
- Cycle Storage
- Edge of road works

REVISION | P22 DATE | 25.11.25 BY | KJ CHECKED | PA

Additional passive EV parking symbols to bays

REVISION | P21 DATE | 22.10.25 BY | KJ CHECKED | PA

Sub-stations and EV charging kiosks positions updated. Tree's repositioned to inline with drainage strategy. Gravel around buildings added.

REVISION | P20 DATE | 29.09.25 BY | KJ CHECKED | PA

Updated for Planning Issue

REVISION | P19 DATE | 24.06.25 BY | KJ CHECKED | JE

Plot 9 building updated

REVISION | P18 DATE | 09.06.25 BY | HAN CHECKED | JE

Red Line Boundary (Plot 09 only) updated

REVISION | P17 DATE | 09.04.25 BY | HAN CHECKED | PA

Soft landscape around Plot 09 relocated

CLIENT Cumberland County Council

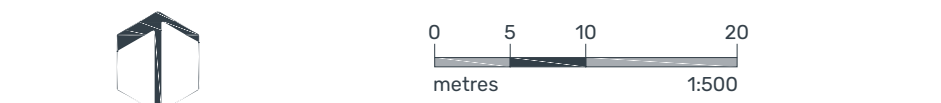
PROJECT **CMIQ Phase 2 LUF**

TITLE Landscape Site Plan

DWG No. LUF-ONE-ZZ-XX-D-L-0001 REV P22

STATUS PRELIMINARY

SCALE 1:500 @ A1 DATE 08.11.24 DRN BY HAN





Appendix C

Environment Agency Flood Maps



Flood map for planning

Your reference
LUF2

Location (easting/northing)
301624/515483

Created
9 Jan 2025 17:09

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

You will need to do a flood risk assessment if your site is **any of the following:**

- bigger than 1 hectare (ha)
- In an area with critical drainage problems as notified by the Environment Agency
- identified as being at increased flood risk in future by the local authority's strategic flood risk assessment
- at risk from other sources of flooding (such as surface water or reservoirs) and its development would increase the vulnerability of its use (such as constructing an office on an undeveloped site or converting a shop to a dwelling)

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.

Flood risk data is covered by the Open Government Licence **which** sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2024 OS AC0000807064. <https://flood-map-for-planning.service.gov.uk/os-terms>



Flood map for planning

Your reference
LUF2

Location (easting/northing)
301624/515483

Scale
1:2500

Created
9 Jan 2025 17:09

- Selected area
- Flood zone 3
- Flood zone 2
- Flood zone 1
- Flood defence
- Main river
- Water storage area



**Key****Surface water**

-  Extent
-  Depth
-  Velocity

Rivers and the sea

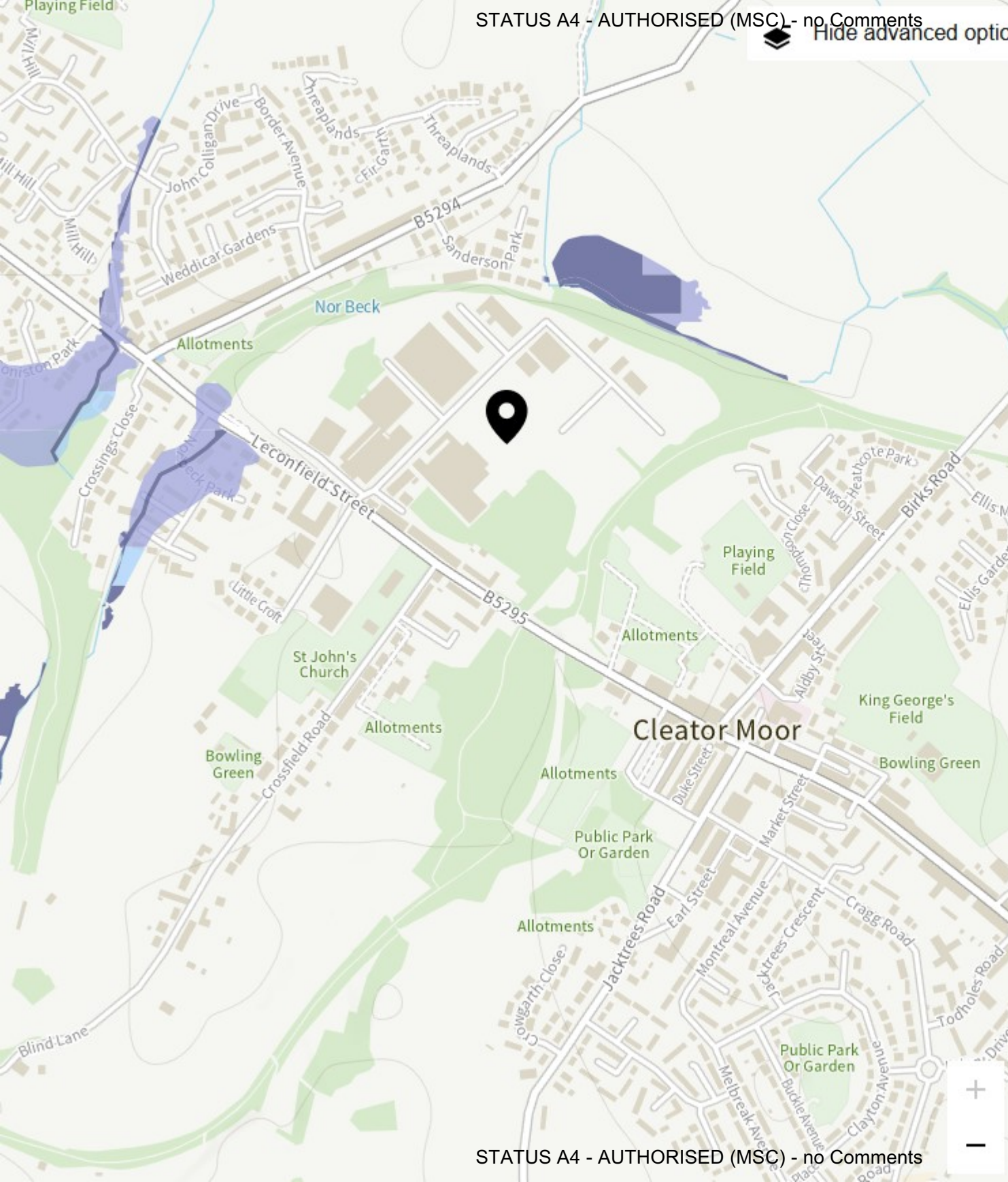
-  Extent
-  High
More than 3.3% chance each year
-  Medium
Between 1% and 3.3% chance each year
-  Low
Between 0.1% and 1% chance each year
-  Very low
Less than 0.1% chance each year

Reservoirs

-  Extent

Map details

- ☒ Show flooding
- ☒  Selected address



Key

Surface water



Extent



High

More than 3.3% chance each year



Medium

Between 1% and 3.3% chance each year



Low

Between 0.1% and 1% chance each year



Depth



Velocity

Rivers and the sea



Extent

Reservoirs



Extent

Map details



Show flooding

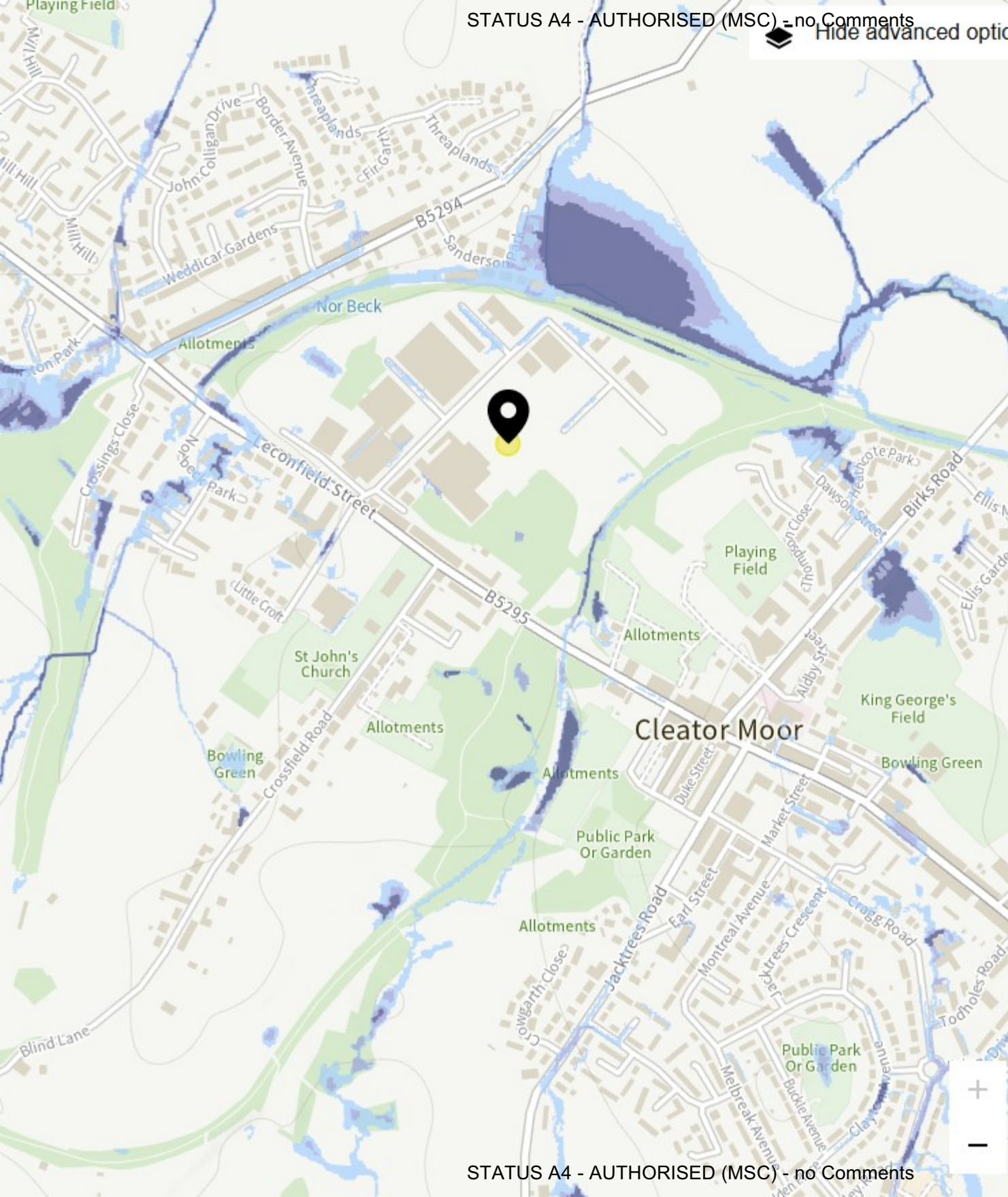


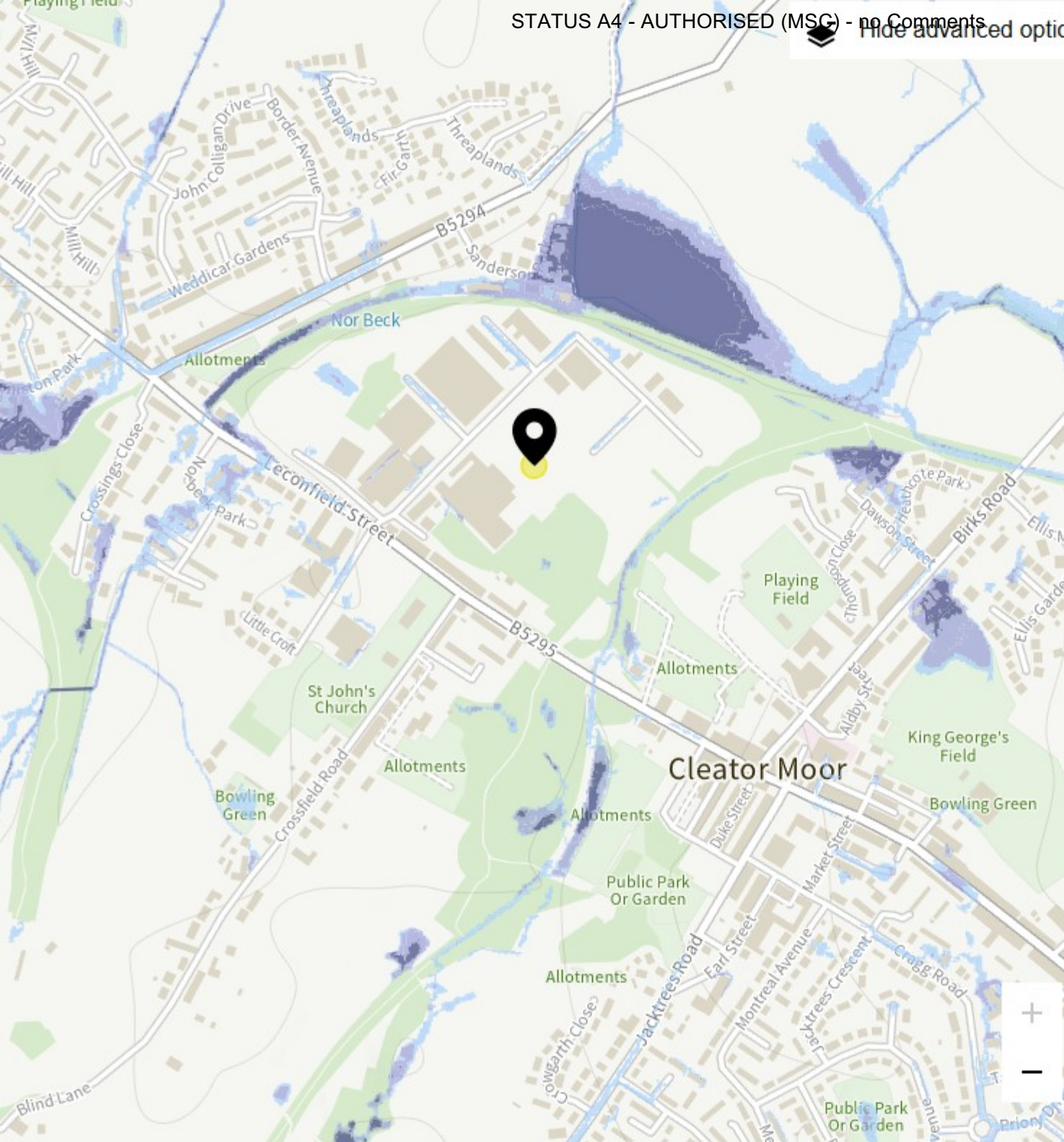
Selected address



15m boundary

Pause to updates of flood risk data

We have [paused updates to information about flood risk](#) from rivers



Key

Surface water

☐ Extent

☒ Depth

Above 90cm

30cm to 90cm

Below 30cm

☐ Velocity

Rivers and the sea

☐ Extent

Reservoirs

☐ Extent

Map details

☒ Show flooding

☒ Selected address

15m boundary

Pause to updates of flood risk data

We have [paused updates to information about flood risk](#) from rivers and the sea and surface water while we get ready for new data.

☐ **High**
3.3% chance each year

☐ **Medium**
1% chance each year

☒ **Low**
0.1% chance each year

Key

Surface water

☐ Extent☒ Depth Above 90cm 30cm to 90cm Below 30cm☐ Velocity

Rivers and the sea

☐ Extent

Reservoirs

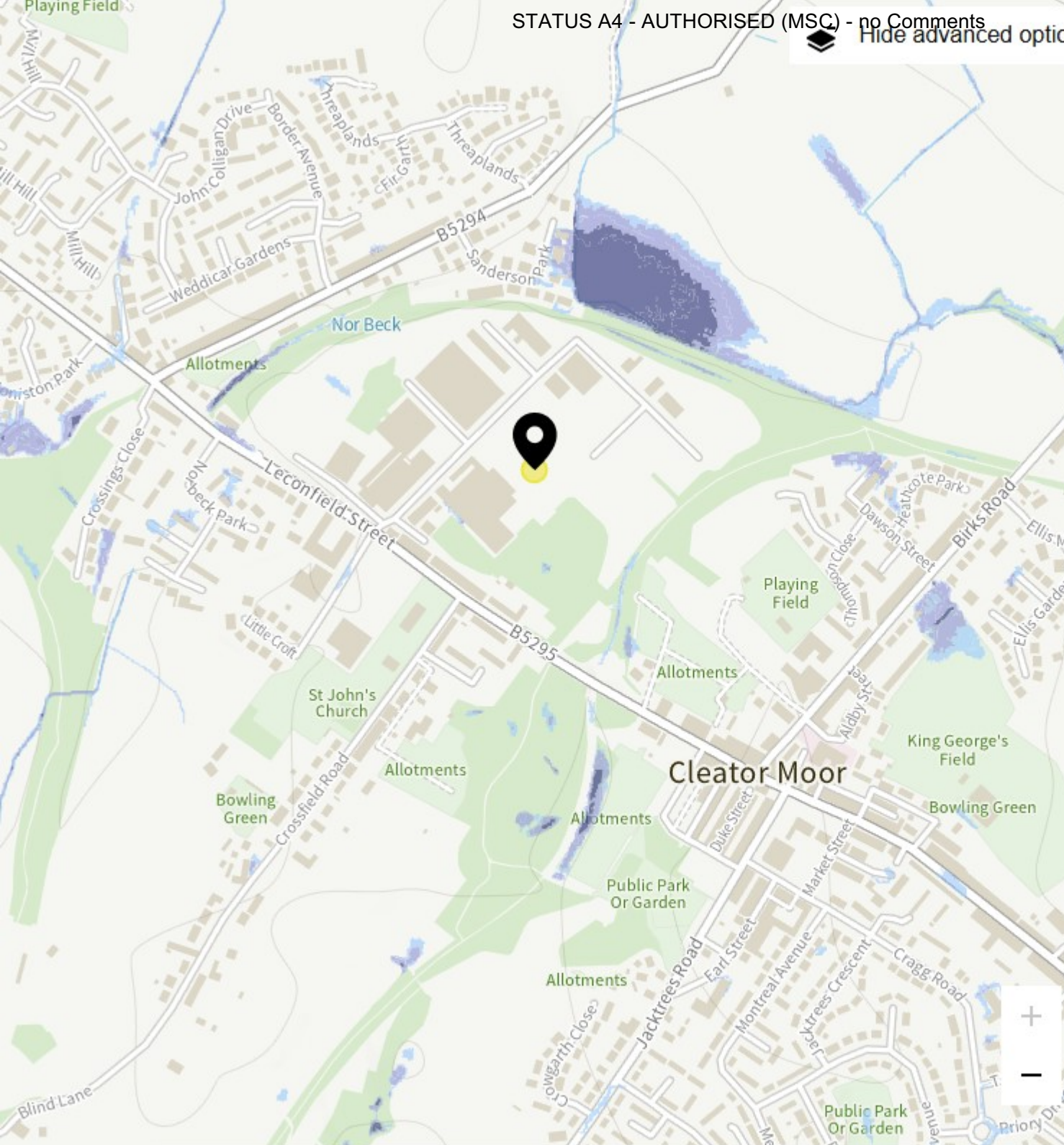
☐ Extent

Map details

☒ Show flooding☒  Selected address 15m boundary

Pause to updates of flood risk data

We have [paused updates to information about flood risk](#) from rivers and the sea and surface water while we get ready for new data.



 **High**
3.3% chance each year

 **Medium**
1% chance each year

 **Low**
0.1% chance each year



Key

Surface water

☐ Extent

☒ Depth

 Above 90cm

 30cm to 90cm

 Below 30cm

☐ Velocity

Rivers and the sea

☐ Extent

Reservoirs

☐ Extent

Map details

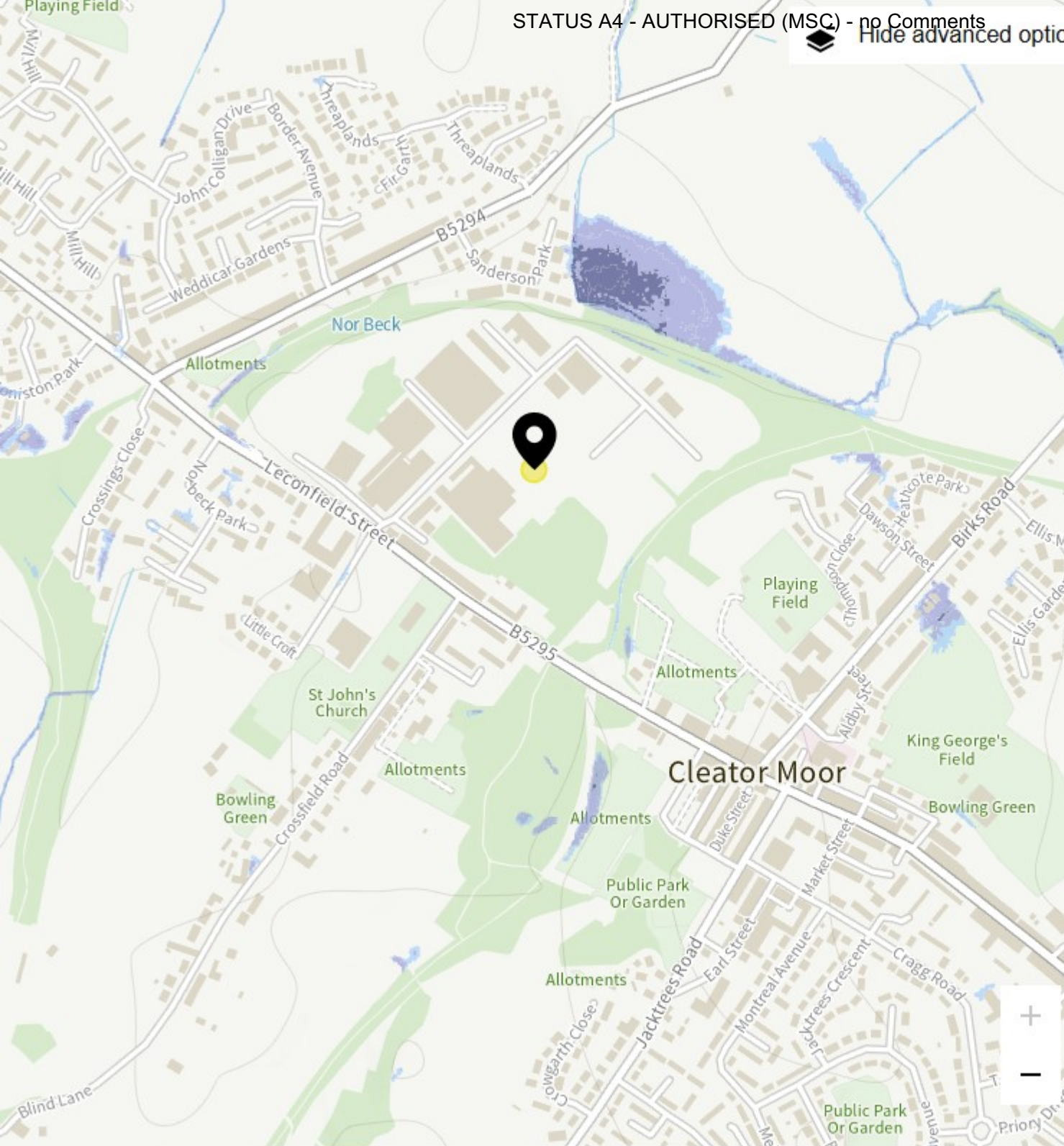
☒ Show flooding

☒  Selected address

 15m boundary

Pause to updates of flood risk data

We have [paused updates to information about flood risk](#) from rivers and the sea and surface water while we get ready for new data.



High

3.3% chance each year



Medium

1% chance each year



Low

0.1% chance each year

Key

Surface water

 Extent Depth Velocity More than 0.25 m/s
Metres per second Less than 0.25 m/s Direction

Rivers and the sea

 Extent

Reservoirs

 Extent

Map details

☒ Show flooding☒  Selected address 15m boundary

Pause to updates of flood risk data

We have [paused updates to information about flood risk](#) from rivers and the sea and surface water while we get ready for new data.

 **High**
3.3% chance each year **Medium**
1% chance each year **Low**
0.1% chance each year

Key

Surface water

☐ Extent☐ Depth☒ Velocity More than 0.25 m/s
Metres per second Less than 0.25 m/s Direction

Rivers and the sea

☐ Extent

Reservoirs

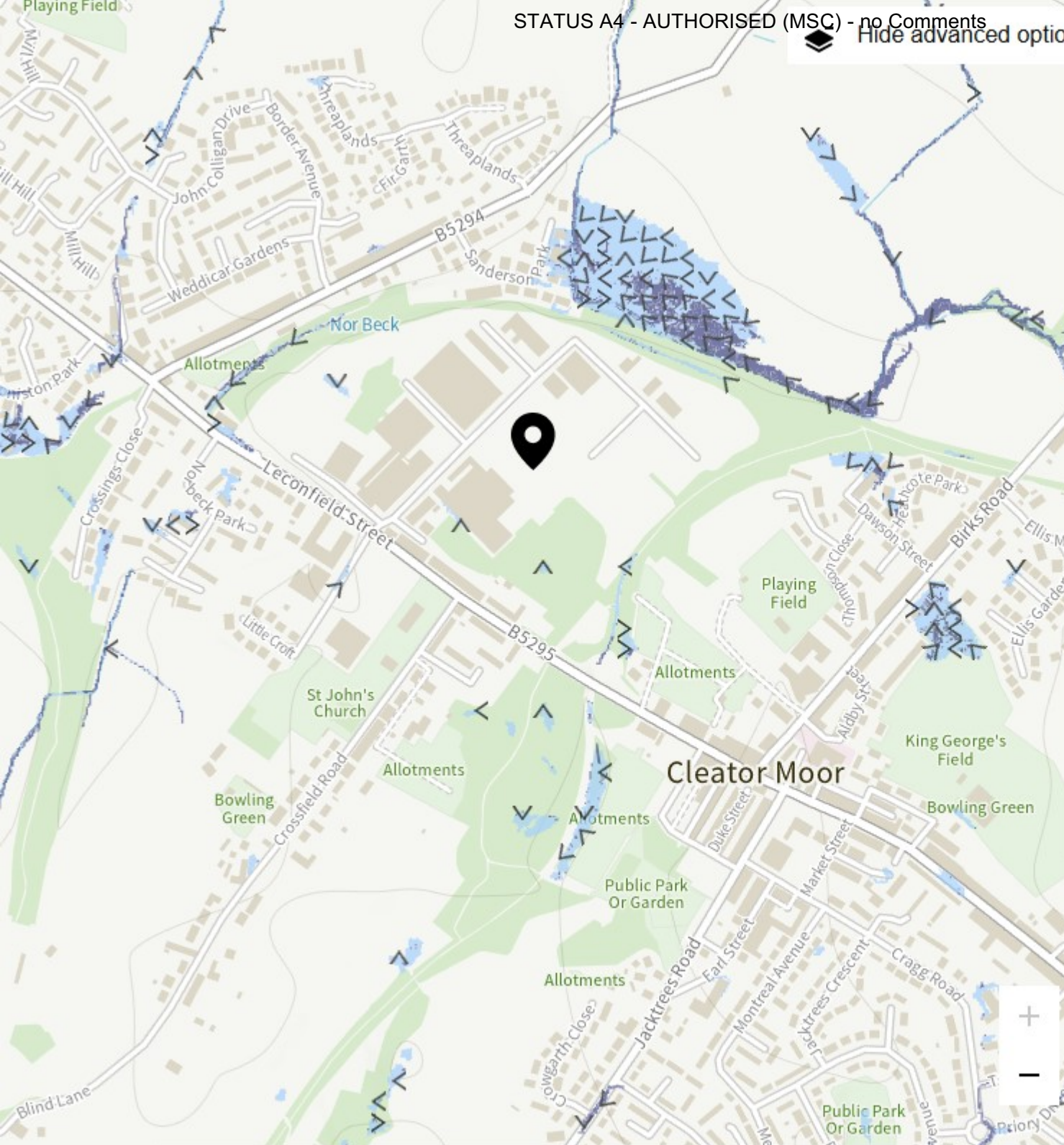
☐ Extent

Map details

☒ Show flooding☒  Selected address 15m boundary

Pause to updates of flood risk data

We have [paused updates to information about flood risk](#) from rivers and the sea and surface water while we get ready for new data.

 **High**
3.3% chance each year **Medium**
1% chance each year **Low**
0.1% chance each year

Key

Surface water

○ Extent

○ Depth

● Velocity

More than 0.25 m/s
Metres per second

Less than 0.25 m/s

> Direction

Rivers and the sea

○ Extent

Reservoirs

○ Extent

Map details

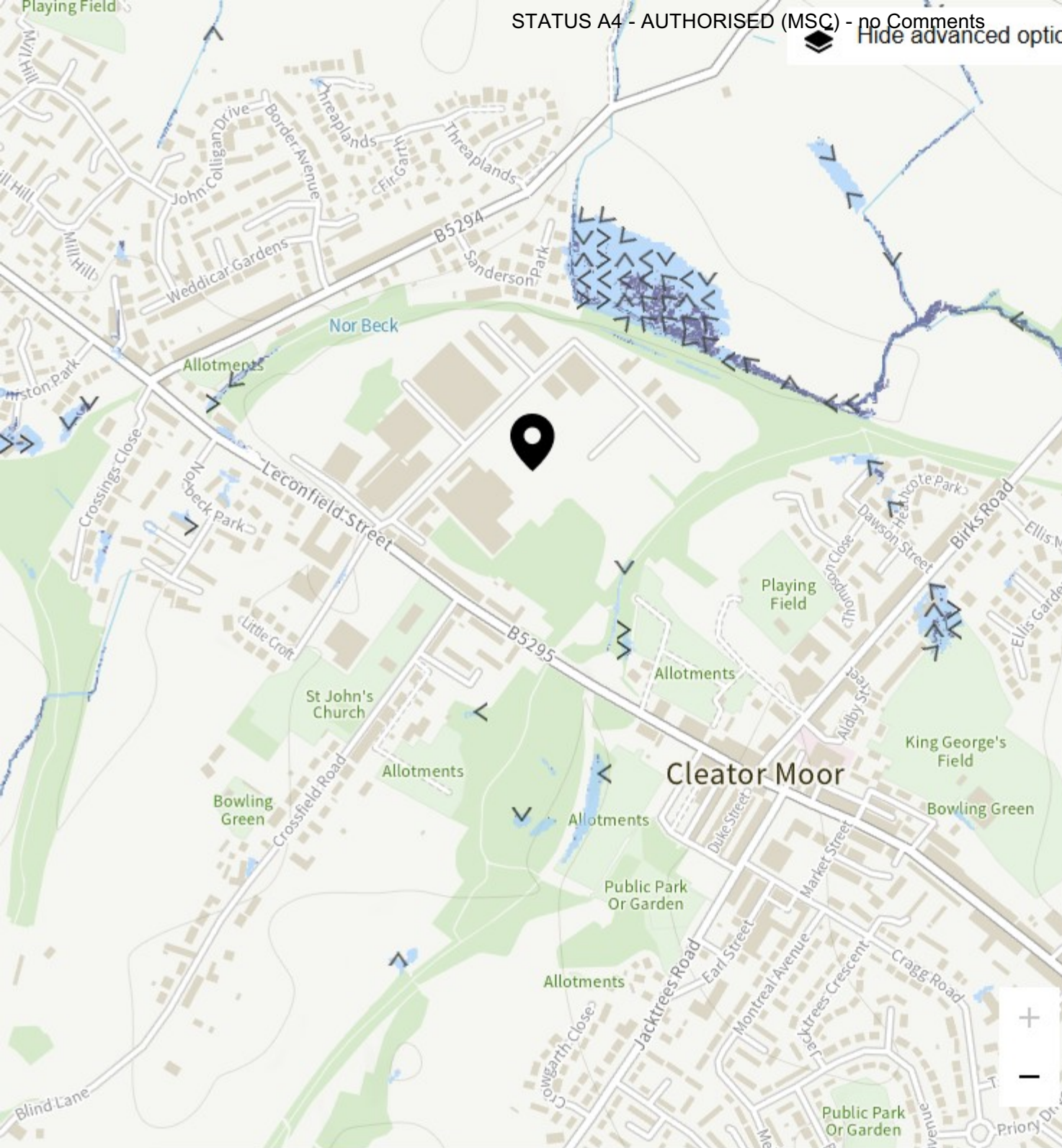
☒ Show flooding

☒ Selected address

15m boundary

Pause to updates of flood risk data

We have [paused updates to information about flood risk](#) from rivers and the sea and surface water while we get ready for new data.

**High**

3.3% chance each year

**Medium**

1% chance each year

**Low**

0.1% chance each year



Key

Surface water

-  Extent
-  Depth
-  Velocity

Rivers and the sea

-  Extent

Reservoirs

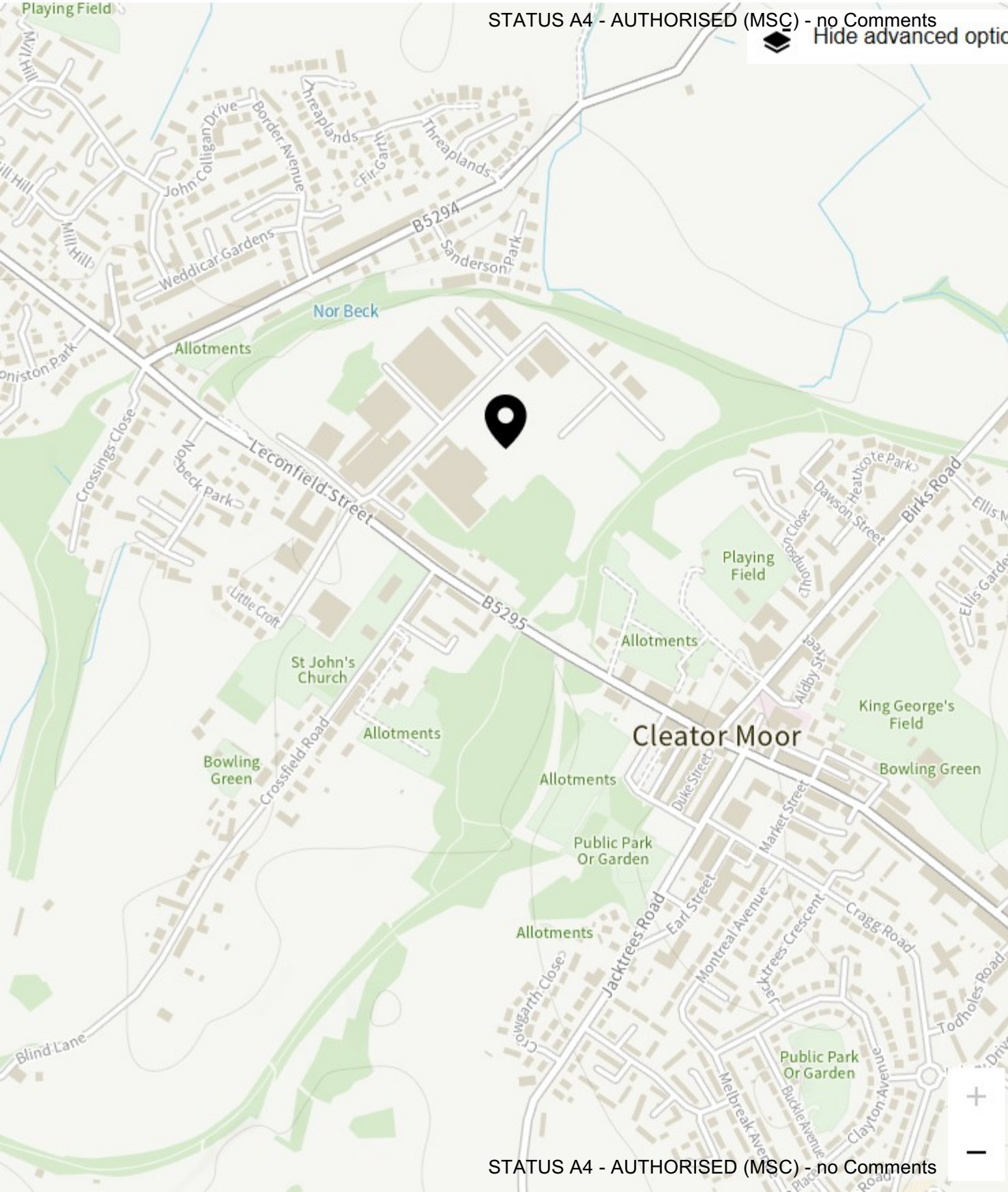
-  Extent
-  When river levels are normal
-  When there is also flooding from rivers

Map details

- ☒ Show flooding
- ☒  Selected address

Pause to updates of flood risk data

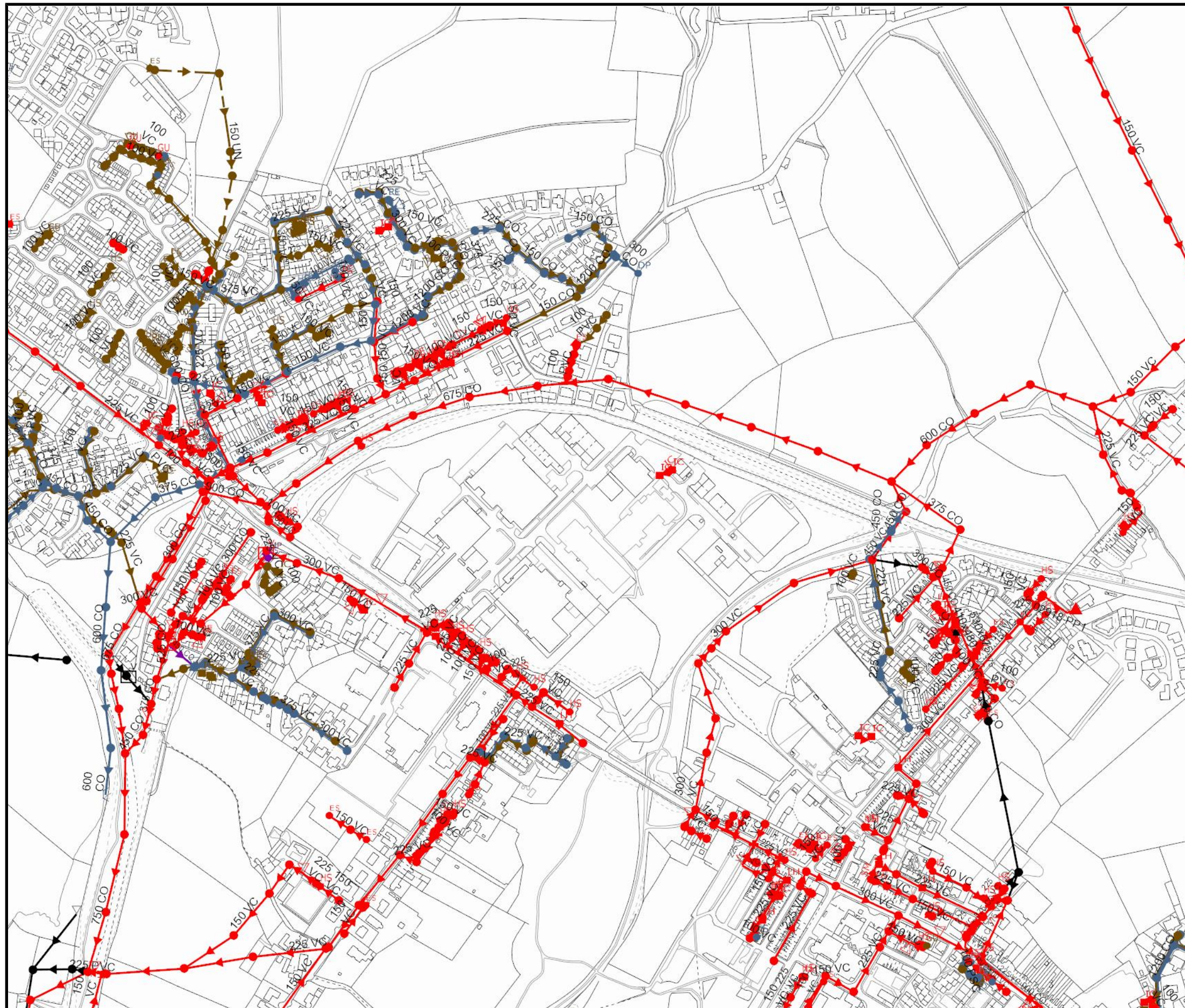
We have [paused updates to information about flood risk](#) from rivers and the sea and surface water while we get ready for new data.





Appendix D

United Utilities Drainage Records



Water for the North West

SEWER RECORDS

Address or Site Reference

CAPITAL ALUMINIUM
EXTRUSIONS LTD LECONFIELD
INDUSTRIAL ESTATE,
CLEATOR MOOR,
CA25 5QB

Scale: 1:5000
Date: 21/09/2021

Printed by: Property Searches

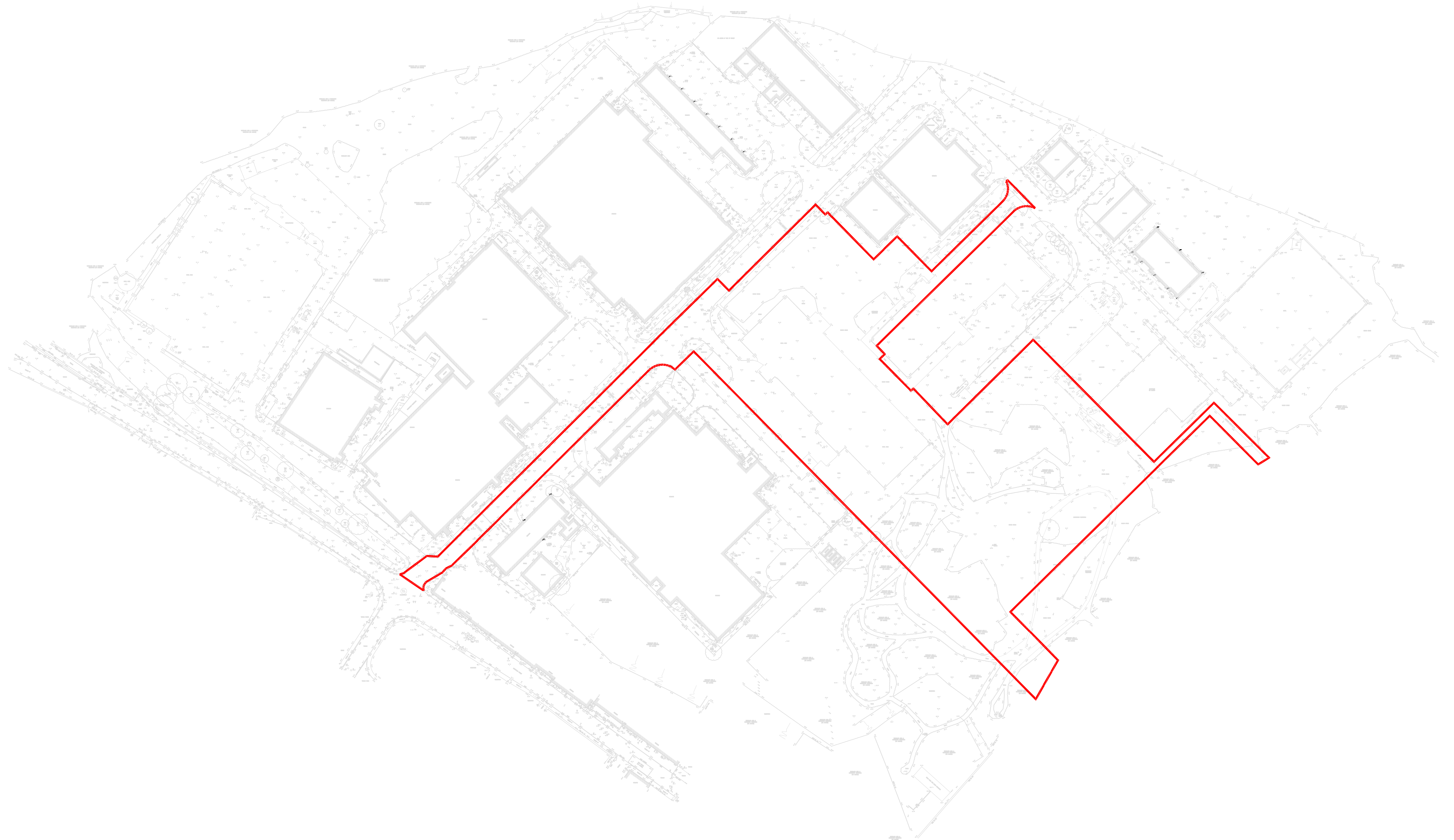
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Appendix E

Topographic Survey





Appendix F

Reference Documents List

The National Planning Policy Framework (March 2012)	Communities and Local Government
The Technical Guidance to the NPPF (March 2012)	Communities and Local Government
Flood Risk Assessment Guidance Note 1	Environment Agency
Cumberland Level 1 SFRA	JBA