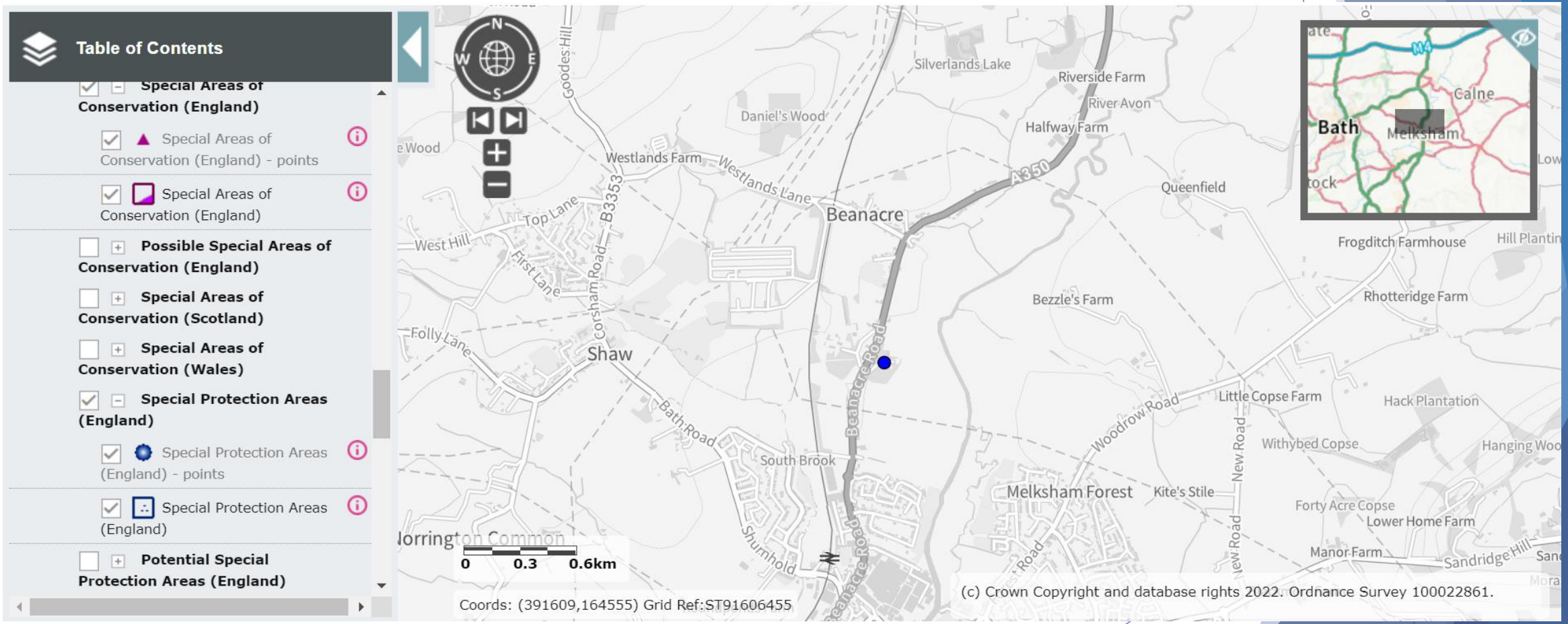
Beechfield House Hotel

Discharge permit supporting information

wardell armstrong

Protected Sites – no SACs, SPAs, Ramsar, SSSIs



Water quality data - Ammoniacal Nitrogen

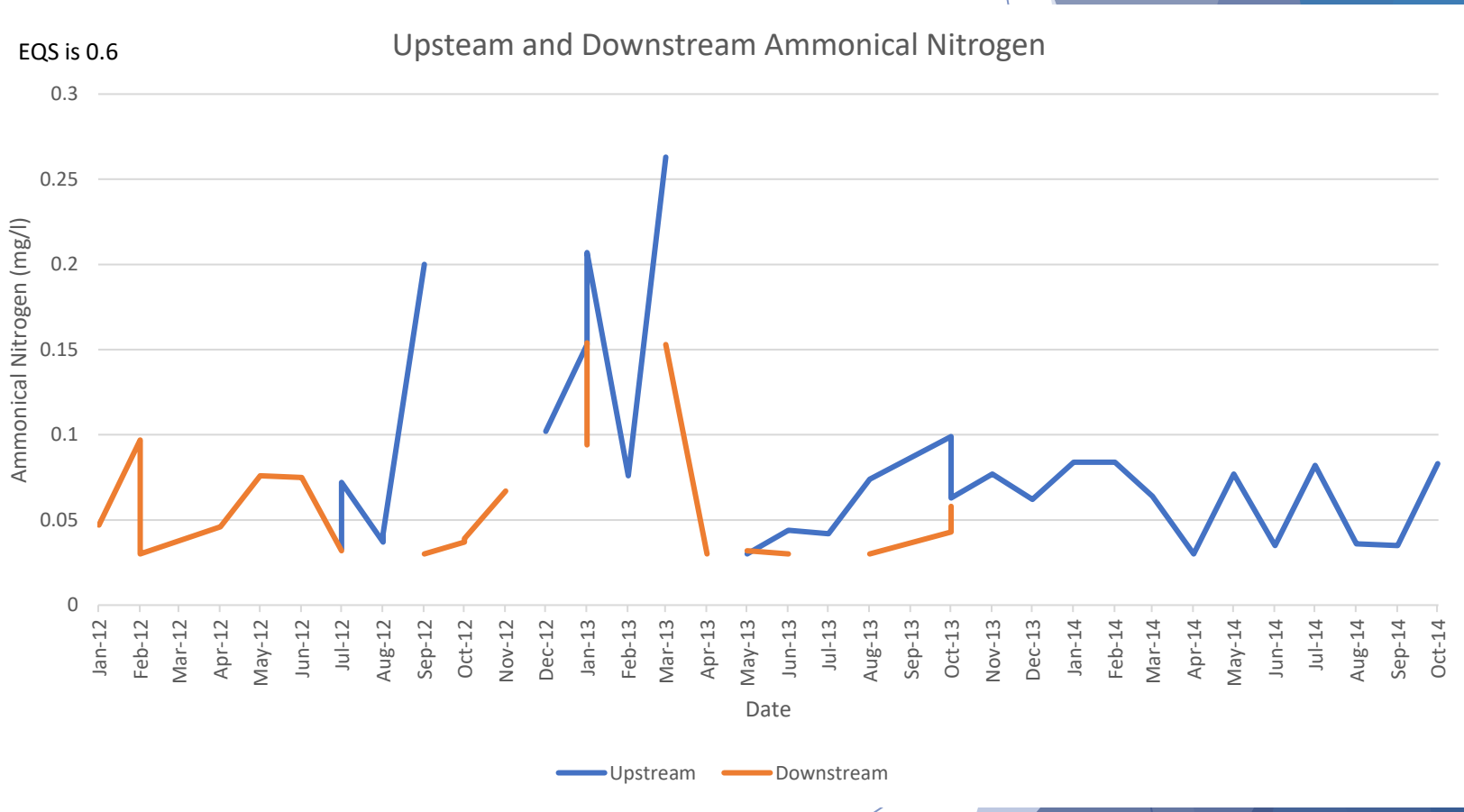
Upstream and Downstream of Beechfield House

- EQS for Ammonical Nitrogen is 0.6 mg/l

EA data location:

- Upstream - Bristol Avon At Lacock
- Downstream - Bristol Avon At Scotland Road

Low levels of difference between upstream and downstream water quality, so based on the available data it is unlikely Beechfield House Hotel is causing water quality issues.



Data from:

Environment Agency Water Quality Archive: https://environment.data.gov.uk/water-quality/view/explore?search=&area=c&samplingPointType.group=F&samplingPointStatus%5B%5D=open&samplingPointStatus%5B%5D=closed&loc=390591%2C166375&_limit=500

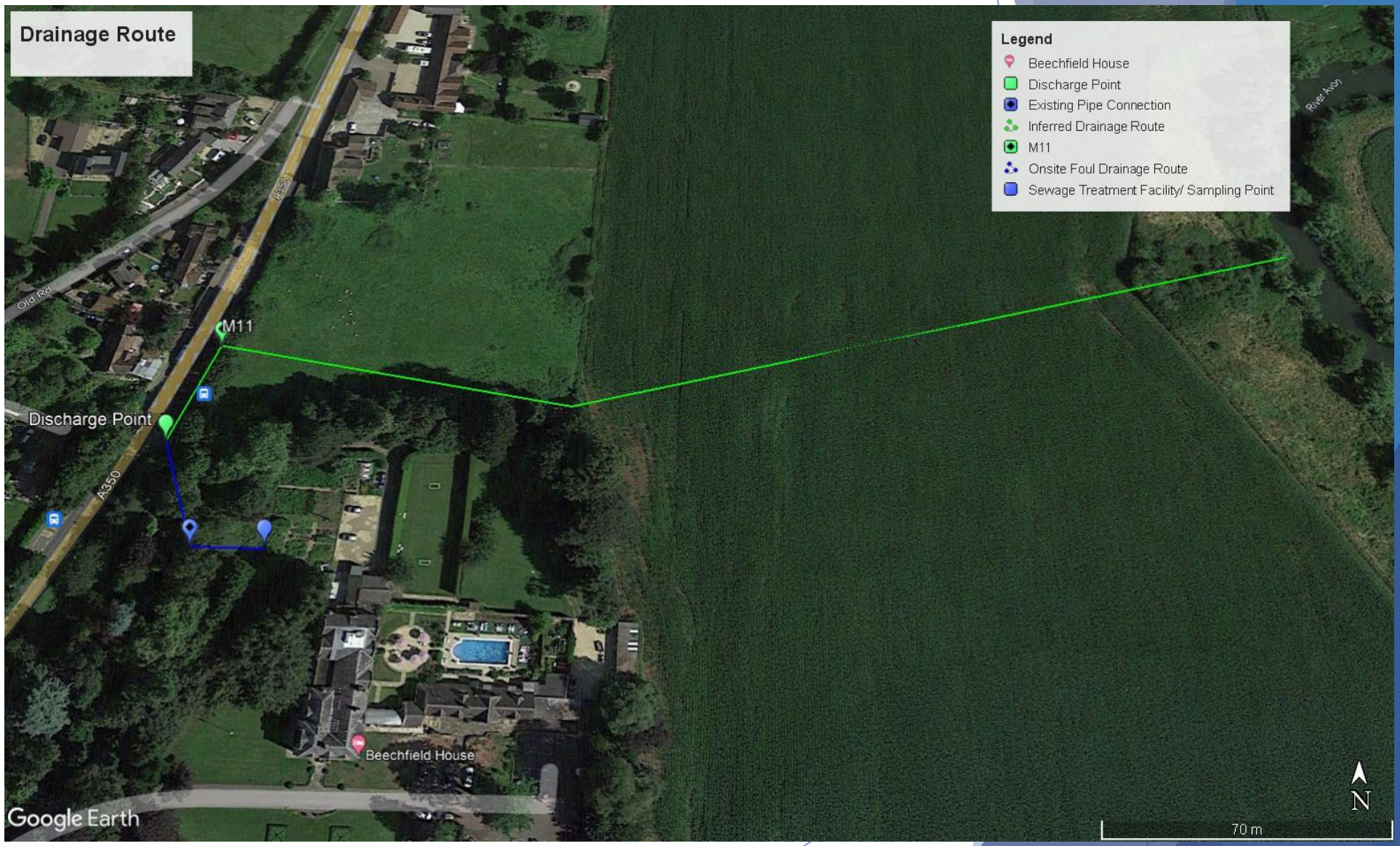
Drainage Route with Highways Drawing Overlay

- The Highways Drawing is a plan from road improvements to the A350 Beanacre, the bypass is adjacent to Beechfield House.



Drainage Route

- The flow enters the sewage plant and flows to the existing onsite pipe connection and discharges to the surface water sewer on the deliveries drive of Beechfield House Hotel. From the discharge point, the flow heads north to manhole M11, as labelled on the highways drawing and then flows east out to the River Avon, across the inferred drainage route.
- This route has been inferred from extending the approximate location of existing drain from the highways drawing while taking into account topography and vegetation in the satellite image.
- This view of the drainage has been informed by onsite inspection of the drainage manholes (see next slide) and flow routes together with the historic drainage plans.



The Discharge Point

- The flow enters the discharge point, which is a surface water drain on the deliveries drive of Beechfield House Hotel and flows to the north to manhole M11 in the main road verge.
- National Grid Reference of the discharge point: ST 90281 65720



← Inferred Drainage Route

↓ N Orientation of North



Manhole M11

← Inferred Drainage Route

↓ N Orientation of North

- The discharge point flows into M11 and the flow leaves to the east.
- There was a significant amount of flow from M11 east towards the River Avon 16/02/2023 capable of providing significant dilution to the discharge.







