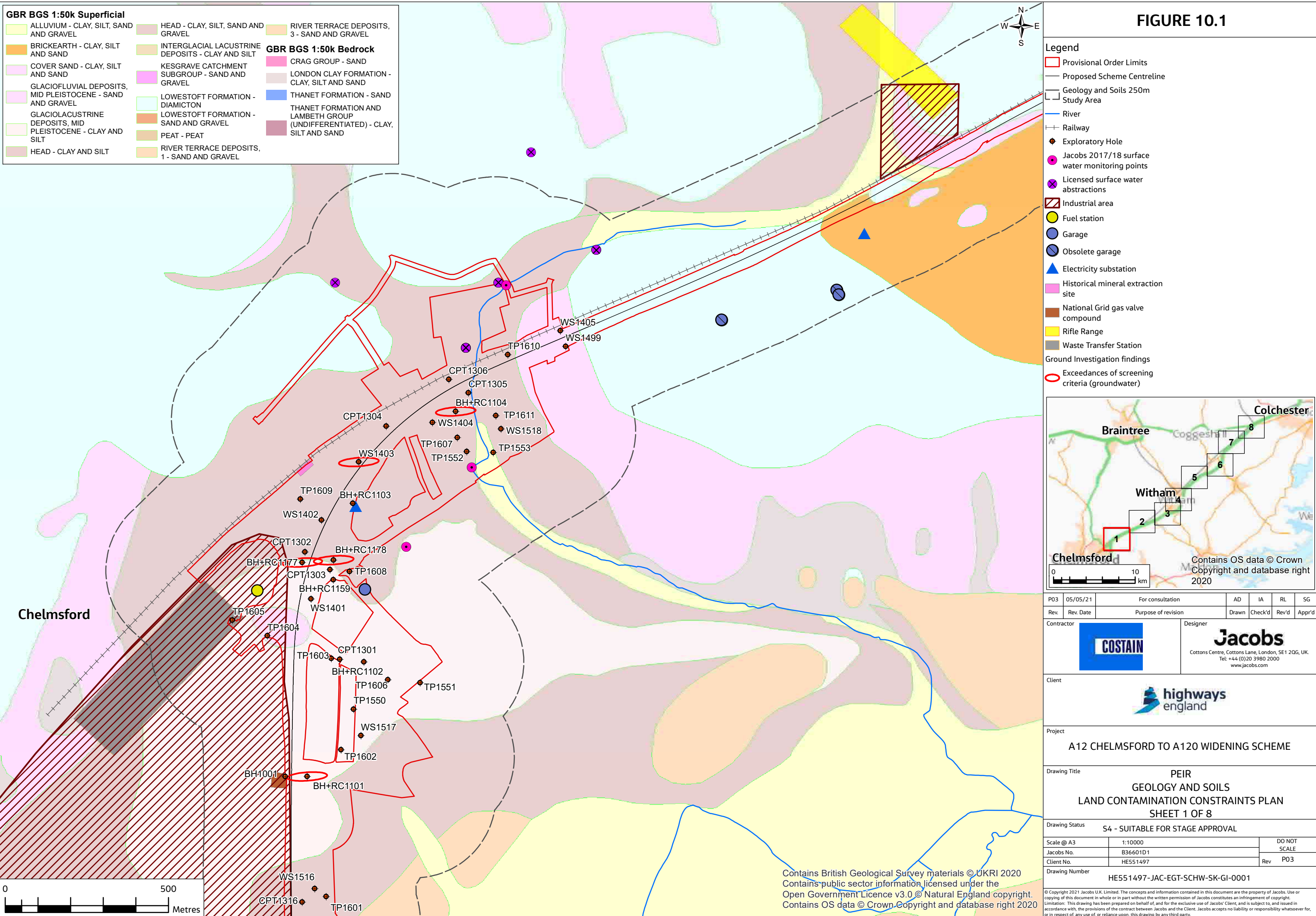


A12 Chelmsford to A120 widening scheme

**PRELIMINARY ENVIRONMENTAL
INFORMATION REPORT**

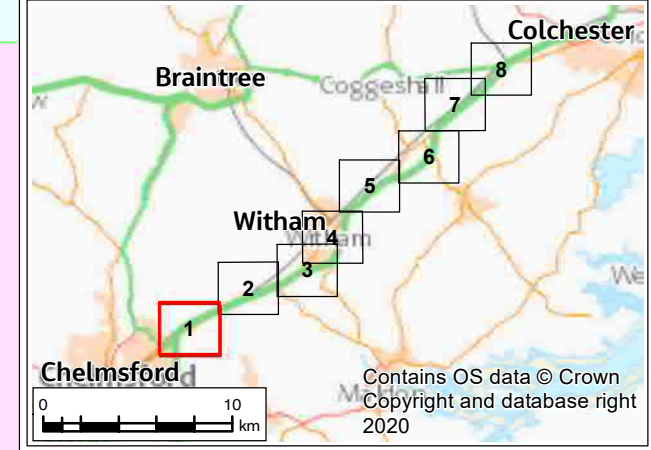
**CHAPTER 10 – GEOLOGY & SOILS
FIGURES**

FIGURE 10.1



- GBR BGS 1:50k Superficial**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
 - BRICKEARTH - CLAY, SILT AND SAND
 - COVER SAND - CLAY, SILT AND SAND
 - GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL
 - GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - CLAY AND SILT
 - HEAD - CLAY AND SILT
 - HEAD - CLAY, SILT, SAND AND GRAVEL
 - INTERGLACIAL LACUSTRINE DEPOSITS - CLAY AND SILT
 - KESGRAVE CATCHMENT SUBGROUP - SAND AND GRAVEL
 - LOWESTOFT FORMATION - DIAMICTON
 - LOWESTOFT FORMATION - SAND AND GRAVEL
 - PEAT - PEAT
 - RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL
 - RIVER TERRACE DEPOSITS, 3 - SAND AND GRAVEL
- GBR BGS 1:50k Bedrock**
- CRAG GROUP - SAND
 - LONDON CLAY FORMATION - CLAY, SILT AND SAND
 - THANET FORMATION - SAND
 - THANET FORMATION AND LAMBETH GROUP (UNDIFFERENTIATED) - CLAY, SILT AND SAND

- Legend**
- Provisional Order Limits
 - Proposed Scheme Centreline
 - Geology and Soils 250m Study Area
 - River
 - Railway
 - Exploratory Hole
 - Jacobs 2017/18 surface water monitoring points
 - Licensed surface water abstractions
 - Industrial area
 - Fuel station
 - Garage
 - Obsolete garage
 - Electricity substation
 - Historical mineral extraction site
 - National Grid gas valve compound
 - Rifle Range
 - Waste Transfer Station
 - Ground Investigation findings
 - Exceedances of screening criteria (groundwater)

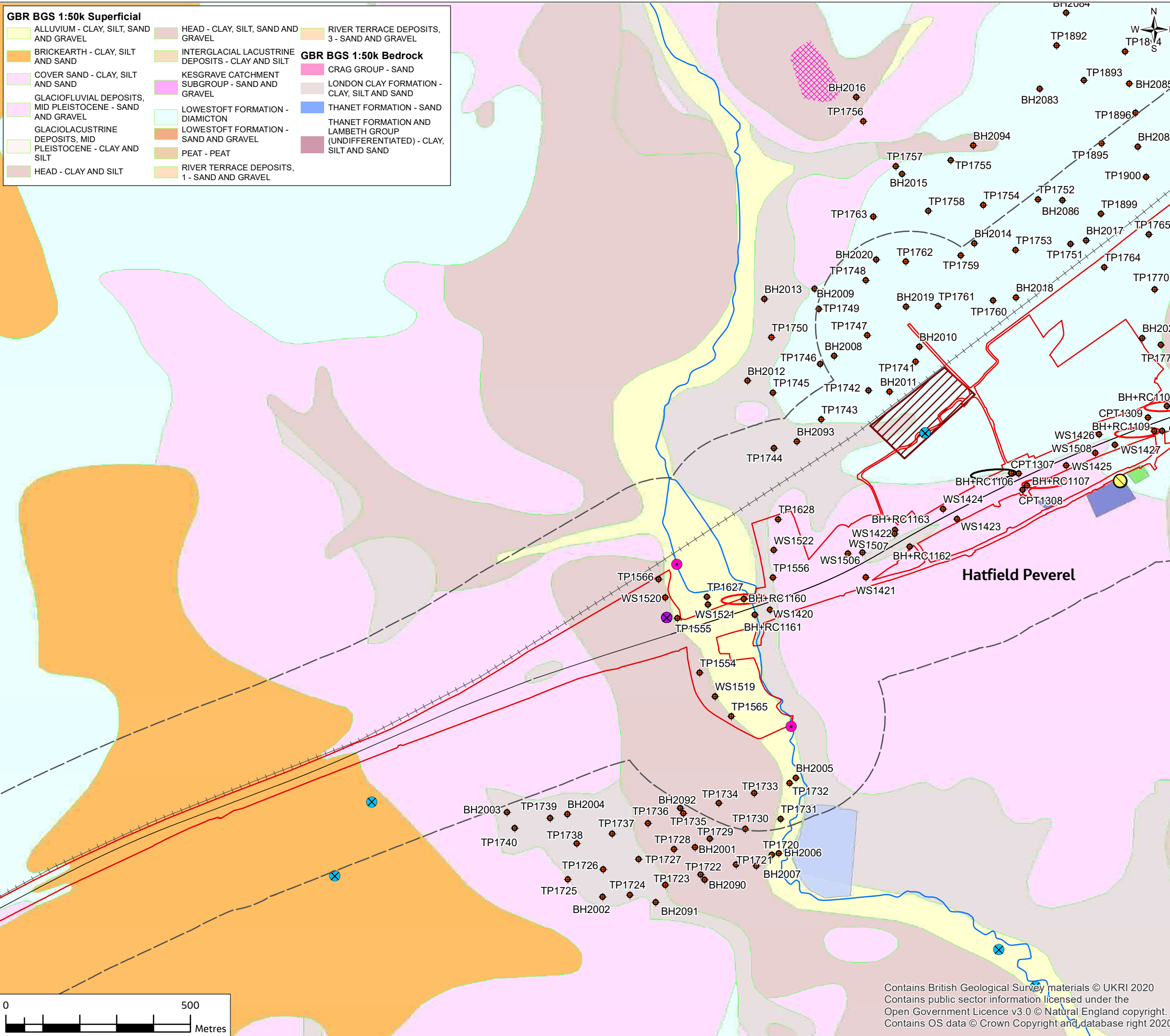


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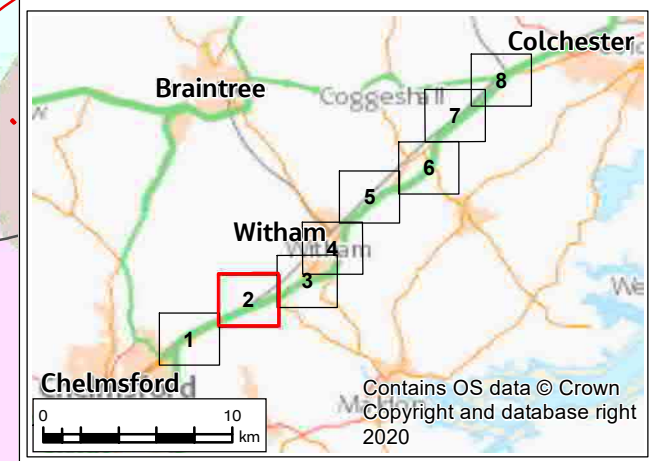


FIGURE 10.1



- GBR BGS 1:50k Superficial**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
 - BRICKEARTH - CLAY, SILT AND SAND
 - COVER SAND - CLAY, SILT AND SAND
 - GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL
 - GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - CLAY AND SILT
 - HEAD - CLAY AND SILT
 - HEAD - CLAY, SILT, SAND AND GRAVEL
 - INTERGLACIAL LACUSTRINE DEPOSITS - CLAY AND SILT
 - KESGRAVE CATCHMENT SUBGROUP - SAND AND GRAVEL
 - LOWESTOFT FORMATION - DIAMICTON
 - LOWESTOFT FORMATION - SAND AND GRAVEL
 - PEAT - PEAT
 - RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL
- GBR BGS 1:50k Bedrock**
- CRAG GROUP - SAND
 - LONDON CLAY FORMATION - CLAY, SILT AND SAND
 - THANET FORMATION - SAND
 - THANET FORMATION AND LAMBETH GROUP (UNDIFFERENTIATED) - CLAY, SILT AND SAND
 - RIVER TERRACE DEPOSITS, 3 - SAND AND GRAVEL

- Legend**
- Provisional Order Limits
 - Proposed Scheme Centreline
 - Geology and Soils 250m Study Area
 - River
 - Railway
 - Exploratory Hole
 - Jacobs 2017/18 surface water monitoring points
 - Licensed groundwater abstractions
 - Licensed surface water abstractions
 - Historic landfill site
 - Industrial area
 - Obsolete fuel station
 - Historical fire Station
 - Obsolete garage
 - Historical sewage works
 - Ground Investigation findings
 - Exceedances of screening criteria (soils)
 - Exceedances of screening criteria (groundwater)



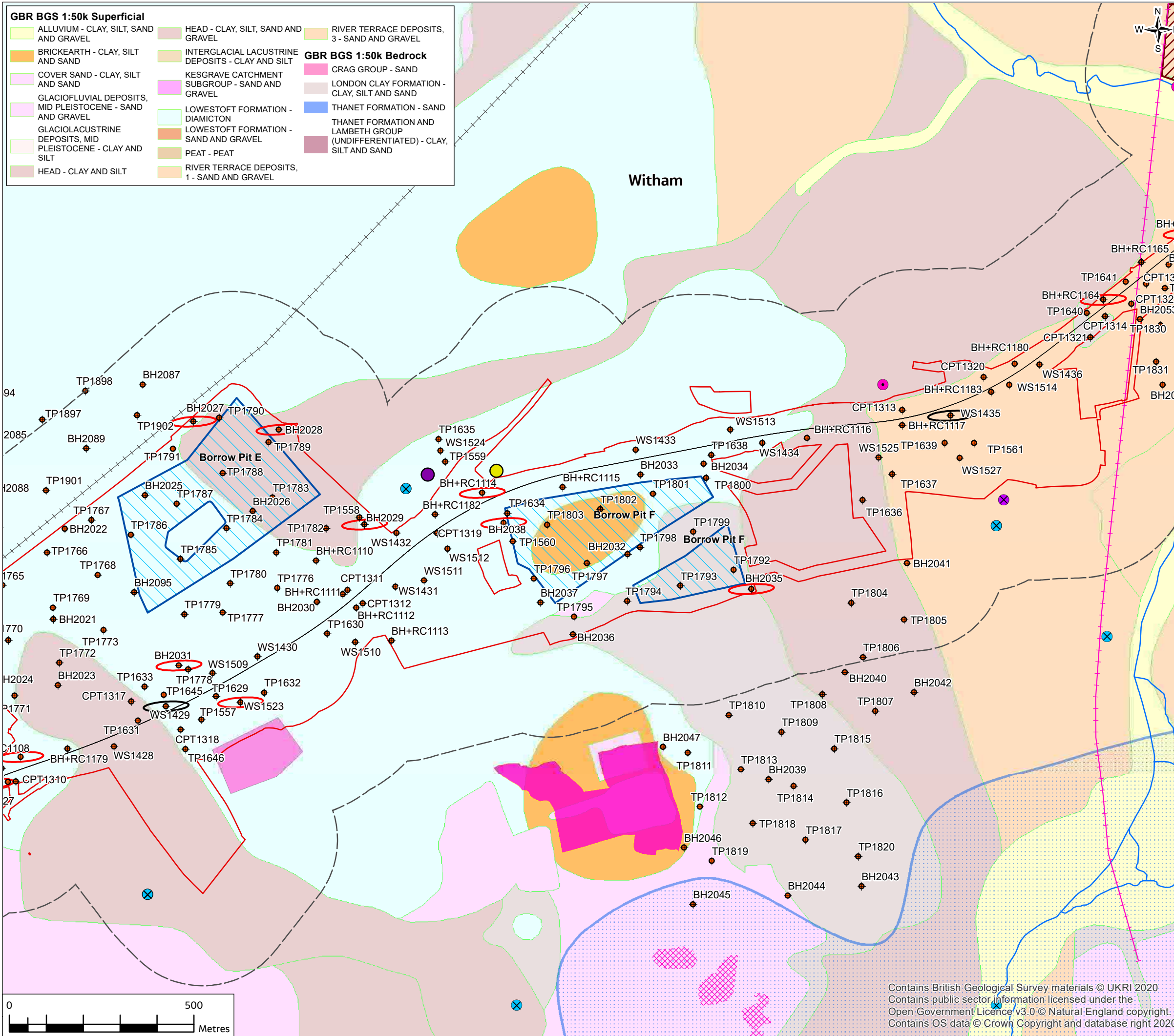
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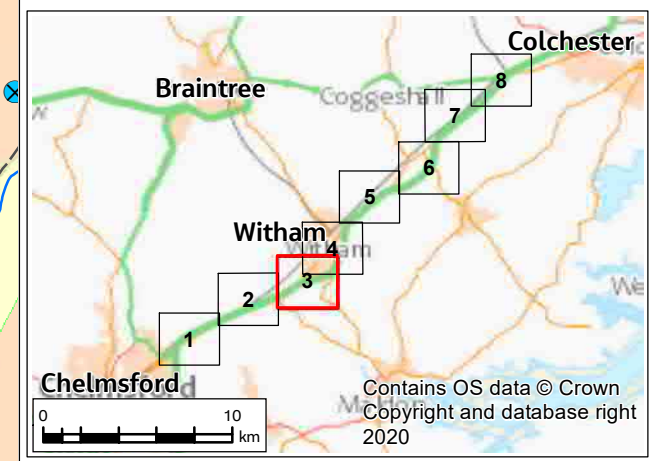
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FIGURE 10.1



- GBR BGS 1:50k Superficial**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
 - BRICKEARTH - CLAY, SILT AND SAND
 - COVER SAND - CLAY, SILT AND SAND
 - GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL
 - GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - CLAY AND SILT
 - HEAD - CLAY AND SILT
 - HEAD - CLAY, SILT, SAND AND GRAVEL
 - INTERGLACIAL LACUSTRINE DEPOSITS - CLAY AND SILT
 - KESGRAVE CATCHMENT SUBGROUP - SAND AND GRAVEL
 - LOWESTOFT FORMATION - DIAMICTON
 - LOWESTOFT FORMATION - SAND AND GRAVEL
 - PEAT - PEAT
 - RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL
- GBR BGS 1:50k Bedrock**
- CRAG GROUP - SAND
 - LONDON CLAY FORMATION - CLAY, SILT AND SAND
 - THANET FORMATION - SAND
 - THANET FORMATION AND LAMBETH GROUP (UNDIFFERENTIATED) - CLAY, SILT AND SAND
- RIVER TERRACE DEPOSITS, 3 - SAND AND GRAVEL**

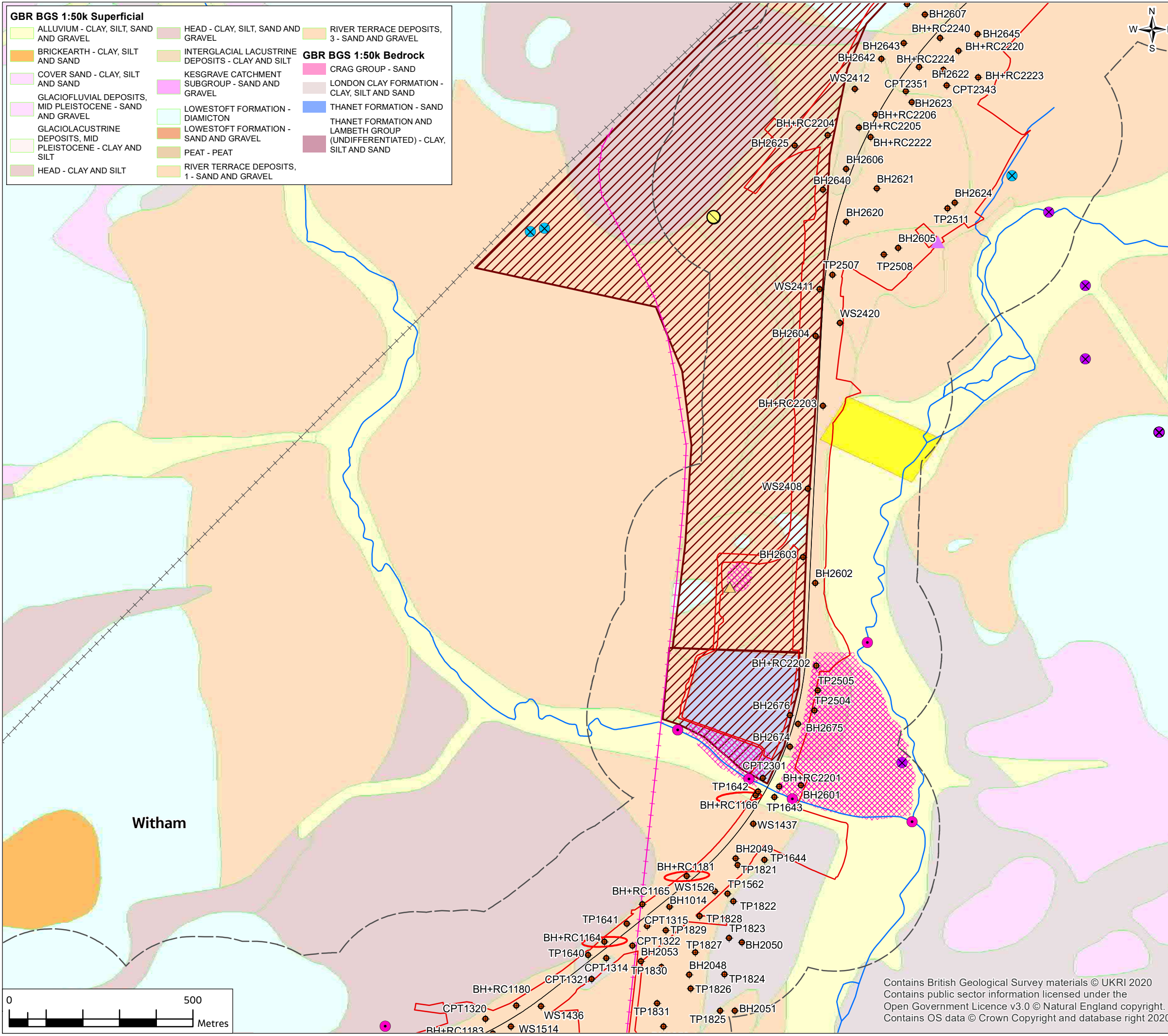
- Legend**
- Provisional Order Limits
 - Proposed Scheme Centreline
 - Geology and Soils 250m Study Area
 - River
 - Railway
 - Historical Railway (dismantled)
 - Exploratory Hole
 - Jacobs 2017/18 surface water monitoring points
 - Licensed groundwater abstractions
 - Licensed surface water abstractions
 - Borrow Pit
 - Historic landfill site
 - Industrial area
 - Fuel station
 - Tank
 - Historical mineral extraction site
 - Historical sewage works
 - Infilled pit
 - Zone III - Total Catchment
 - Ground Investigation findings
 - Exceedances of screening criteria (soils)
 - Exceedances of screening criteria (groundwater)



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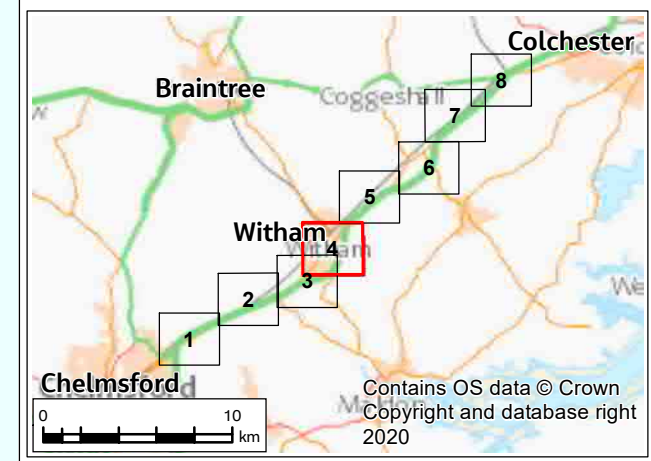
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FIGURE 10.1



- GBR BGS 1:50k Superficial**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
 - BRICKEARTH - CLAY, SILT AND SAND
 - COVER SAND - CLAY, SILT AND SAND
 - GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL
 - GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - CLAY AND SILT
 - HEAD - CLAY AND SILT
 - HEAD - CLAY, SILT, SAND AND GRAVEL
 - INTERGLACIAL LACUSTRINE DEPOSITS - CLAY AND SILT
 - KESGRAVE CATCHMENT SUBGROUP - SAND AND GRAVEL
 - LOWESTOFT FORMATION - DIAMICTON
 - LOWESTOFT FORMATION - SAND AND GRAVEL
 - PEAT - PEAT
 - RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL
- GBR BGS 1:50k Bedrock**
- CRAG GROUP - SAND
 - LONDON CLAY FORMATION - CLAY, SILT AND SAND
 - THANET FORMATION - SAND
 - THANET FORMATION AND LAMBETH GROUP (UNDIFFERENTIATED) - CLAY, SILT AND SAND
 - RIVER TERRACE DEPOSITS, 3 - SAND AND GRAVEL

- Legend**
- Provisional Order Limits
 - Proposed Scheme Centreline
 - Geology and Soils 250m Study Area
 - River
 - Railway
 - Historical Railway (dismantled)
 - Exploratory Hole
 - Jacobs 2017/18 surface water monitoring points
 - Licensed groundwater abstractions
 - Licensed surface water abstractions
 - Historic landfill site
 - Industrial area
 - Gas governor
 - Landfill
 - Obsolete fuel station
 - Historical sewage works
 - Rifle Range
- Ground Investigation findings**
- Exceedances of screening criteria (groundwater)

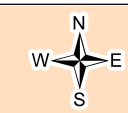
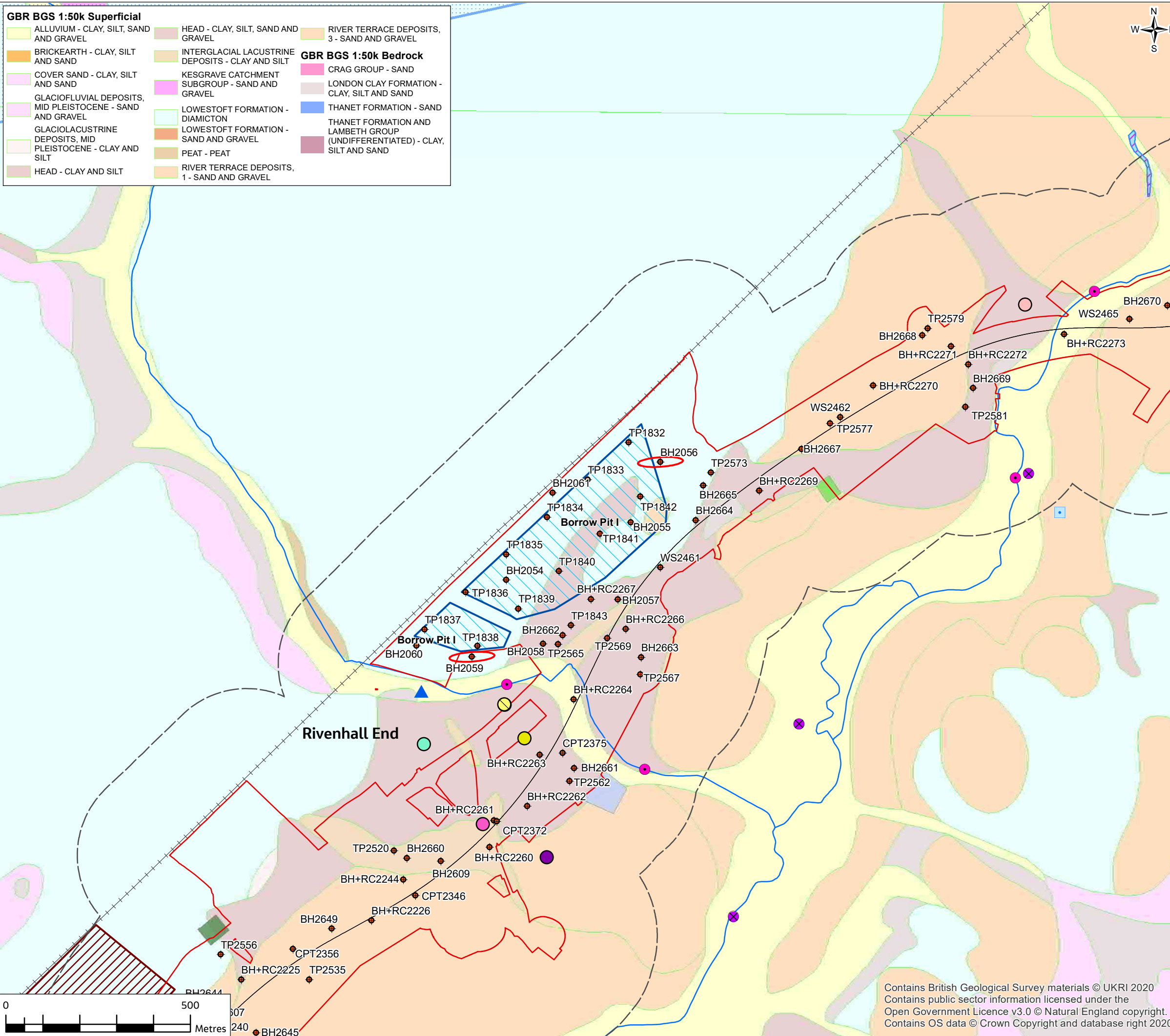


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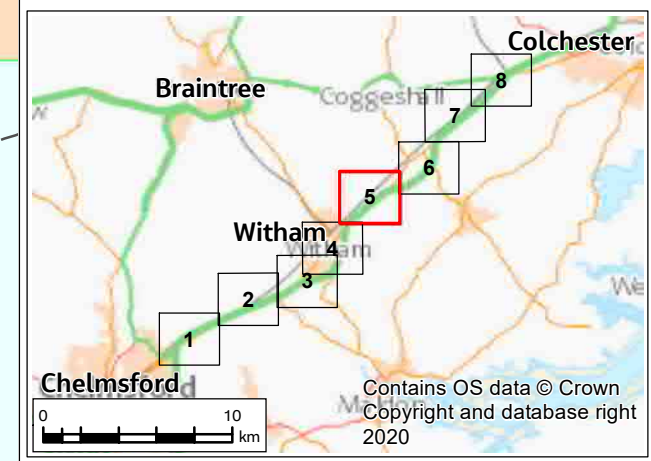


FIGURE 10.1



- GBR BGS 1:50k Superficial**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
 - BRICEARTH - CLAY, SILT AND SAND
 - COVER SAND - CLAY, SILT AND SAND
 - GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL
 - GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - CLAY AND SILT
 - HEAD - CLAY AND SILT
 - HEAD - CLAY, SILT, SAND AND GRAVEL
 - INTERGLACIAL LACUSTRINE DEPOSITS - CLAY AND SILT
 - KESGRAVE CATCHMENT SUBGROUP - SAND AND GRAVEL
 - LOWESTOFT FORMATION - DIAMICTON
 - LOWESTOFT FORMATION - SAND AND GRAVEL
 - PEAT - PEAT
 - RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL
- GBR BGS 1:50k Bedrock**
- CRAG GROUP - SAND
 - LONDON CLAY FORMATION - CLAY, SILT AND SAND
 - THANET FORMATION - SAND
 - THANET FORMATION AND LAMBETH GROUP (UNDIFFERENTIATED) - CLAY, SILT AND SAND
 - RIVER TERRACE DEPOSITS, 3 - SAND AND GRAVEL

- Legend**
- Provisional Order Limits
 - Proposed Scheme Centreline
 - Geology and Soils 250m Study Area
 - River
 - Railway
 - Exploratory Hole
 - Private Water Supply
 - Jacobs 2017/18 surface water monitoring points
 - Licensed surface water abstractions
 - Borrow Pit
 - Industrial area
 - Fuel station
 - Historical mineral extraction site
 - Obsolete fuel station
 - Electricity substation
 - Tank
 - Waste Transfer Station
 - Unidentified pit
 - Historical fire Station
 - Historical sewage works
 - Infilled pond
 - Poultry Farm
 - Zone III - Total Catchment Ground Investigation findings
 - Exceedances of screening criteria (groundwater)

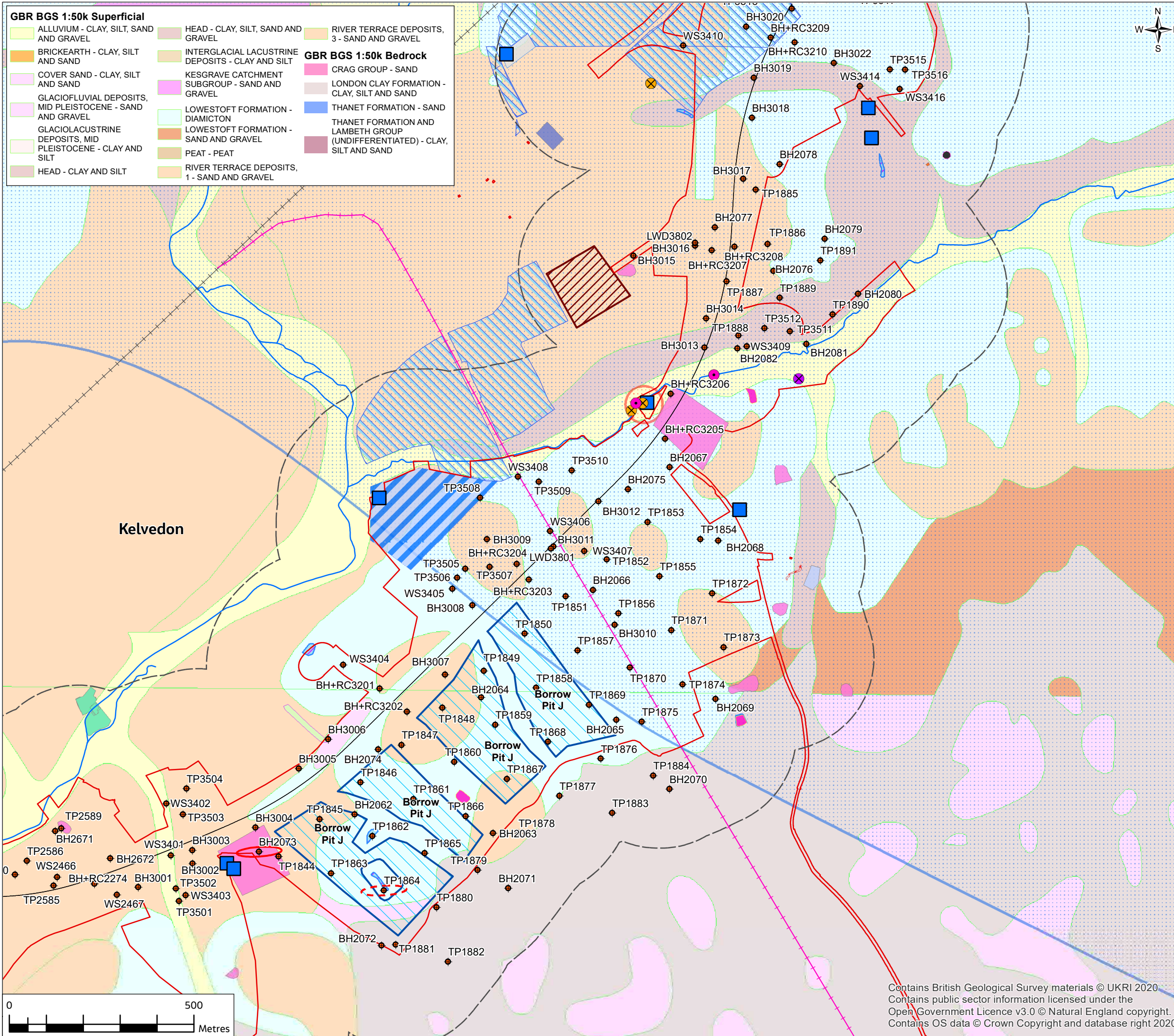


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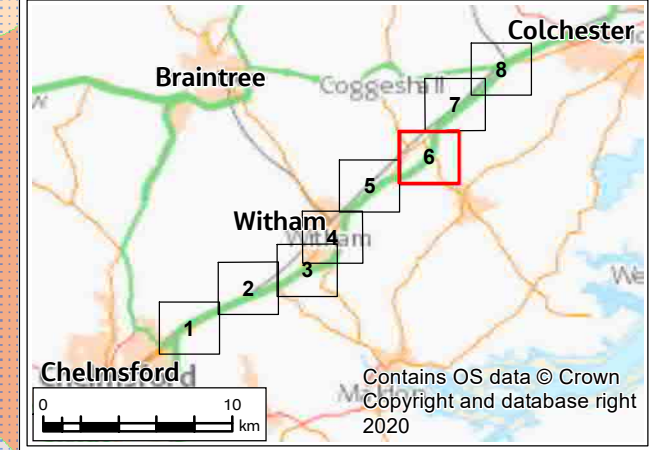


FIGURE 10.1



- GBR BGS 1:50k Superficial**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
 - BRICKEARTH - CLAY, SILT AND SAND
 - COVER SAND - CLAY, SILT AND SAND
 - GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL
 - GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - CLAY AND SILT
 - HEAD - CLAY AND SILT
 - HEAD - CLAY, SILT, SAND AND GRAVEL
 - INTERGLACIAL LACUSTRINE DEPOSITS - CLAY AND SILT
 - KESGRAVE CATCHMENT SUBGROUP - SAND AND GRAVEL
 - LOWESTOFT FORMATION - DIAMICTON
 - LOWESTOFT FORMATION - SAND AND GRAVEL
 - PEAT - PEAT
 - RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL
 - RIVER TERRACE DEPOSITS, 3 - SAND AND GRAVEL
- GBR BGS 1:50k Bedrock**
- CRAG GROUP - SAND
 - LONDON CLAY FORMATION - CLAY, SILT AND SAND
 - THANET FORMATION - SAND
 - THANET FORMATION AND LAMBETH GROUP (UNDIFFERENTIATED) - CLAY, SILT AND SAND

- Legend**
- Provisional Order Limits
 - Proposed Scheme Centreline
 - Geology and Soils 250m Study Area
 - River
 - Railway
 - Historical Railway (dismantled)
 - Exploratory Hole
 - Jacobs 2017/18 surface water monitoring points
 - Licensed groundwater abstraction - public water supply
 - Licensed groundwater abstractions
 - Licensed surface water abstractions
 - Borrow Pit
 - Industrial area
 - Pumping station
 - Historical Nursery
 - Historical mineral extraction site
 - Cemetery
 - Engine house
 - Obsolete garage
 - Historical sewage works
 - Infilled pit
 - Infilled pond
 - Pumping station (former sewage works)
 - Unspecified ground workings
 - Historical unspecified mill
 - Unspecified mound
 - Unspecified tank
 - Zone I - Inner Protection Zone
 - Zone III - Total Catchment
 - Ground Investigation findings
 - Exceedances of screening criteria (groundwater)
 - Suspected asbestos in ground



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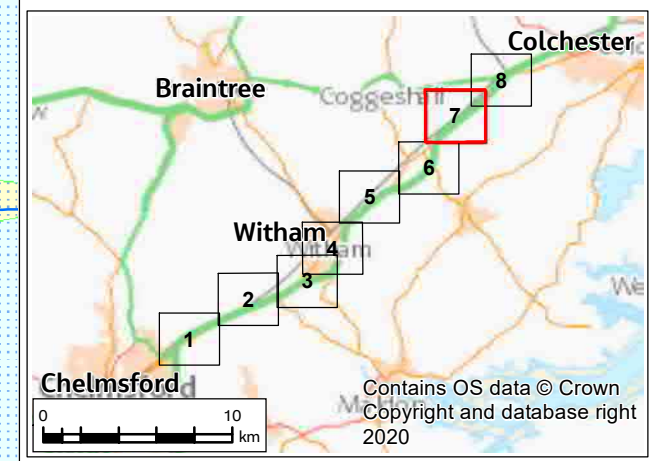
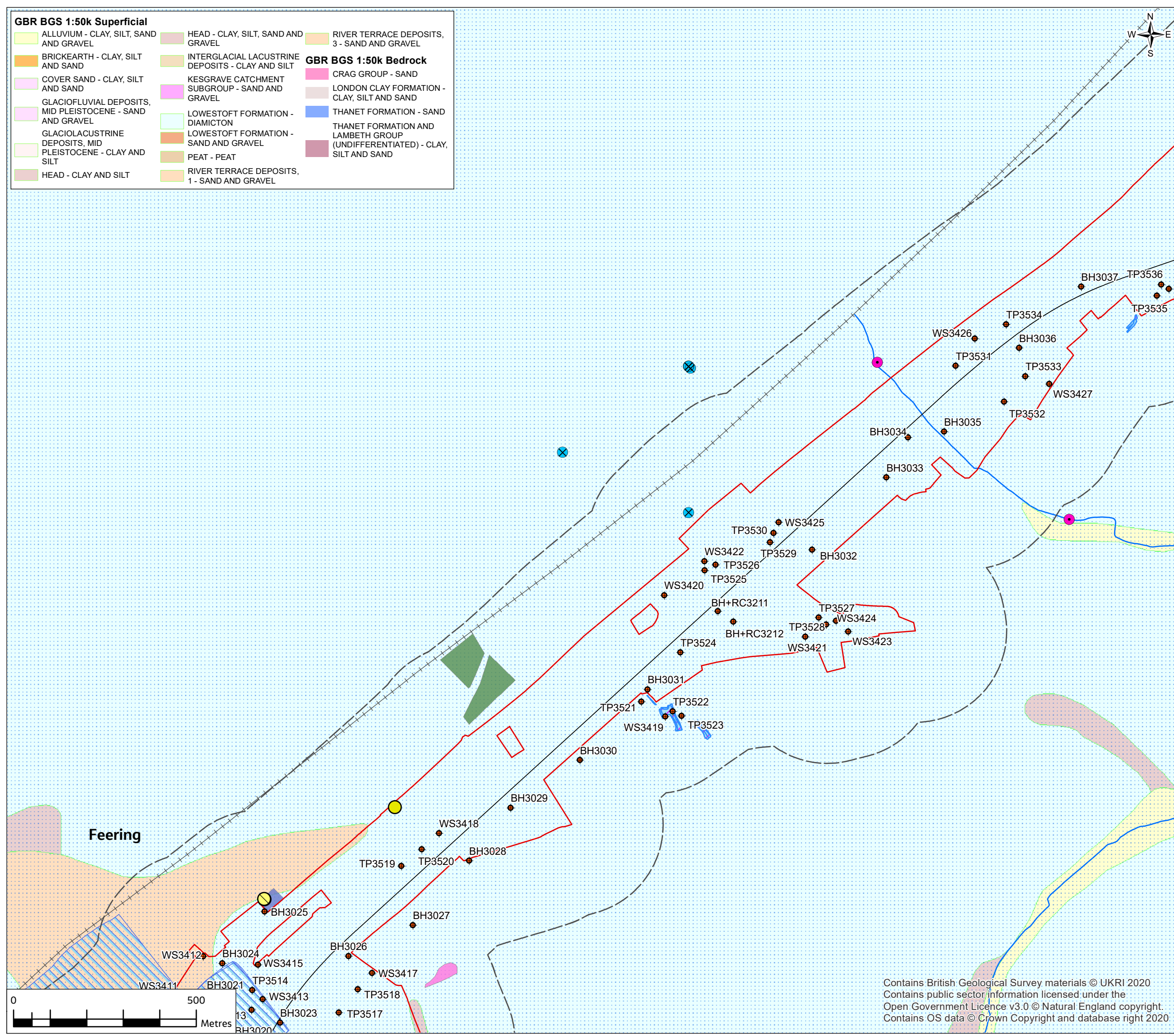
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FIGURE 10.1

- GBR BGS 1:50k Superficial**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
 - BRICKEARTH - CLAY, SILT AND SAND
 - COVER SAND - CLAY, SILT AND SAND
 - GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL
 - GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - CLAY AND SILT
 - HEAD - CLAY AND SILT
 - HEAD - CLAY, SILT, SAND AND GRAVEL
 - INTERGLACIAL LACUSTRINE DEPOSITS - CLAY AND SILT
 - KESGRAVE CATCHMENT SUBGROUP - SAND AND GRAVEL
 - LOWESTOFT FORMATION - DIAMICTON
 - LOWESTOFT FORMATION - SAND AND GRAVEL
 - PEAT - PEAT
 - RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL
- GBR BGS 1:50k Bedrock**
- CRAG GROUP - SAND
 - LONDON CLAY FORMATION - CLAY, SILT AND SAND
 - THANET FORMATION - SAND
 - THANET FORMATION AND LAMBETH GROUP (UNDIFFERENTIATED) - CLAY, SILT AND SAND
 - RIVER TERRACE DEPOSITS, 3 - SAND AND GRAVEL

- Legend**
- Provisional Order Limits
 - Proposed Scheme Centreline
 - Geology and Soils 250m Study Area
 - River
 - Railway
 - Exploratory Hole
 - Jacobs 2017/18 surface water monitoring points
 - Licensed groundwater abstractions
 - Fuel station
 - Obsolete fuel station
 - Historical Nursery
 - Historical mineral extraction site
 - Obsolete garage
 - Infilled pond
 - Poultry Farm
 - Zone III - Total Catchment

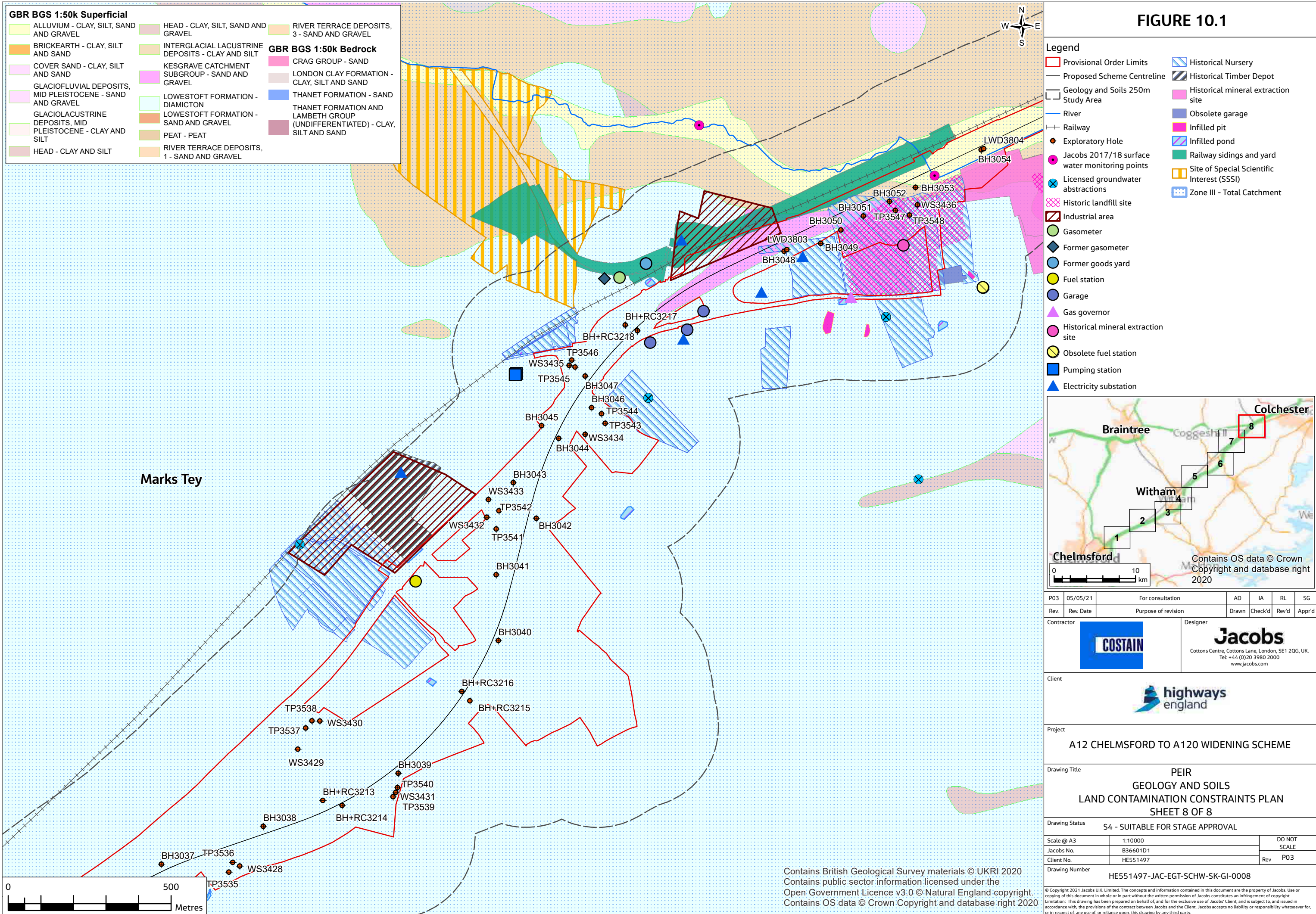


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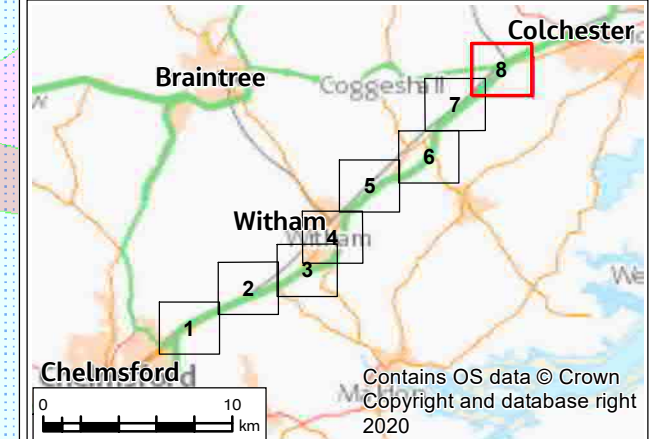
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FIGURE 10.1



- Legend**
- Provisional Order Limits
 - Proposed Scheme Centreline
 - Geology and Soils 250m Study Area
 - River
 - Railway
 - Exploratory Hole
 - Jacobs 2017/18 surface water monitoring points
 - Licensed groundwater abstractions
 - Historic landfill site
 - Industrial area
 - Gasometer
 - Former gasometer
 - Former goods yard
 - Fuel station
 - Garage
 - Gas governor
 - Historical mineral extraction site
 - Obsolete fuel station
 - Pumping station
 - Electricity substation
 - Historical Nursery
 - Historical Timber Depot
 - Historical mineral extraction site
 - Obsolete garage
 - Infilled pit
 - Infilled pond
 - Railway sidings and yard
 - Site of Special Scientific Interest (SSSI)
 - Zone III - Total Catchment



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