



ADDENDUM – Landscape and Visual Impact Appraisal – Dearne Reach 1 Wetlands

TO	Kirkless Council	FROM	WSP
DATE	01 March 2024	CONFIDENTIALITY	Public
SUBJECT	Addendum to the Landscape and Visual Impact Appraisal, for Dearne Reach 1 Wetlands, Planning Application reference 2023/62/93805/E planning portal reference PP-12603433 following changes to the site layout.		

Introduction:

Since submitting the Landscape and Visual Impact Appraisal (LVA) in December 2023, subsequent changes to the internal configuration of the layout of the site, requires a reassessment of the nature of the effects of the proposed development upon landscape character and visual amenity.

The change to the design is considered to reduce the severity of the impacts proposed by the development, and thus the previously submitted report is considered to be representative of the worst case. The following addendum is intended to demonstrate how the revised layout is considered to reduce the magnitude of change upon the receiving environment, and highlight those sections within the submitted report, that require updating.

- The revised Proposed Development currently under assessment is illustrated upon supporting Figure ICW Site Layout - YW.202043.02-MMB-WWT-WWT-DR-C-1012

The extent of the Red Line Boundary remains unchanged.

Section updates to – Dearne Reach 1 Wetlands – Landscape and Visual Appraisal (October 2023) doc ref 70113565-LUD-S3-002

Section 1.2 – Legislative Framework, and Guidance – within the tables, reference to the length of hedgerow removed by the proposed developments should be reduced from 434 m to 201 m. In addition to the above, the table makes reference to the trading rules associated with Biodiversity Net Gain being achieved, with the exception of tree and woodland planting. This is no longer the case, with the new internal arrangement, and increased footprint of the wetland cells' embankments, restricting the nature of the proposed mitigation planting further. Due to the practicalities of maintenance requirements, areas previously identified as species rich grassland (Other natural grassland – Type 1) have been substituted in favour of extending modified grassland – type 2, avoiding narrow areas of grassland, with different maintenance requirements adjacent to one another and thus creating a scheme from the outset that is more representative of a habitat that is more maintainable and likely to establish in the long term, subject to maintenance restrictions, as opposed to one more favourable in terms of biodiversity enhancement, but more likely to reduce in condition over time.

Landscape and Visual Appraisal Methodology

Section 2.1 – Stages in the appraisal process – unchanged

Section 2.2 – Study area – unchanged

Section 2.3 – Baseline Data Collection – unchanged

Section 2.4 – Appraisal of Landscape Character Effects – unchanged

Section 2.5 – Appraisal of Visual Effects – unchanged

Section 2.6 – Assumptions and Limitations – assumptions made in relation to the scheme have been updated. The appraisal has been carried out based on the information outlined upon the following drawings:

- ICW Site Layout - YW.202043.02-MMB-WWT-WWT-DR-C-1012
- STW Site Layout Plan - YW.202043.02-MMB-WWT-WWT-DR-C-1013
- Main Works Hedgerow and Tree removal plan – YW.202043.02 – VX11-MMB-WWT-DR-C-1011
- New Public right of way plan, longitudinal section and cross section – YW.202043.02 – VX11-MMB-WWT-WWT-DR-C-1102

Baseline Conditions

Section 3.1 – Overview of the site and study area - unchanged

Section 3.2 – Landscape designations and features - unchanged

Section 3.3 – Landscape character – unchanged

Section 3.4 – Visual Amenity – unchanged

Section 3.5 – Future Baseline – unchanged

Potential Impacts

The revised design of the scheme will result in the following alterations to those impacts previously appraised associated with the proposed development

Section 4.2 – Construction Phase

Landscape – length of existing hedgerow permanently removed, reduced from 434 m to 201 m

Visual – no change

Section 4.3 – Operational Phase

Landscape Character

The following text replaces that as noted within the report (para 4.3.3 - 4.3.5)

The Proposed Development will directly impact LCA River Dearne Valley during the operational phase of the works due to a permanent land use change within a localised area. The Proposed Development will permanently convert an area of current rough grazing pasture into wetland habitat, through the creation of 13no. wetland cells. The topography of the affected area will also be permanently changed at a site level in order to allow the cells to retain water, resulting in narrow linear earth bunds being created around the individual cell boundaries. Areas of hard standing will create permanent linear features within the landscape, changing the pattern, of the fieldscape within the localised area.

The cultivation of the ground to enable remedial restoration of the surrounding grassland habitat will result in a temporary change to the colour of the Site, from green to brown. However, due to the arable land use

of some of the adjacent fields, the temporary exposure of bare newly cultivated soil will not appear out of place.

When viewed from within the adjacent LCAs the Proposed Development is not considered to indirectly affect the character of the landscape, due to the wetland cells being screened from those LCAs to the south by the mature block of retained woodland, located directly to the north-west of the WwTW. From the north, the main wetland cells will be discernible from areas of higher ground however will not appear at a scale to enable a perceivable change to the nature of the landscape given the increased distance in separation, and the wider areas, mixed land use pattern of arable and pastoral fields.

Visual Amenity - unchanged

Design, Mitigation and Enhancement Measures

Section 5.2 – Landscape Strategy

The following text replaced the text noted within the submitted appraised (para 5.2.1 – 5.2.4)

The landscape strategy for the site, has been produced in order to maximise a positive net change in the biodiversity units associated with the site. All mitigation at this time is restricted to the available land contained within the RLB, with no off-site planting proposed.

To retain the open character of the existing fieldscape, replacement planting of those trees removed by the construction of the Proposed Development has been omitted in favour of enhancement of habitat within other areas. The current matrix indicates that an area of 1.0917ha of rural tree planting, which is equivalent of 30no. trees to reach medium sized (>30cm-90cm DBH) in moderate condition by year 27. This planting is required in order to mitigate for the loss of the existing 8no. trees, to the north of the River Dearne that are to be removed by the development. This is not considered possible at this time, within the confines of the red line boundary without impacting the character of the landscape within the affected area. Due to the arrangement of the wetland cells themselves, tree planting would need to be carried out, along the narrow access strips between the cells themselves, creating very formal, linear rows of trees within the landscape, at odds to that of the natural pattern, of scattered areas of woodland blocks, and intermittent trees along field boundary. Enhancement of an area of woodland to the south of the River Dearne is proposed, in order to mitigate for the loss of a single tree within the localised area, in order to accommodate the outfall.

Enhancement of the main grassland habitat is proposed through the use of a more diverse replacement grassland seed mix, suitable for use on soils considered likely to have a higher fertility. This is due to the tendency for periodic flooding, contributing to silt build up and former agricultural land use. The embankments of the wetland cells themselves are covered by the Reservoir Act, and an alternative grassland mix has been proposed, more suited to high intensity maintenance in order to maintain a reduced sward height, with greater diversity than that currently found on site.

Section 5.3 – Design Embedded Mitigation

The following text replaces text submitted within the current appraisal (para 5.3.1 – 5.3.4)

The configuration of the cells has been revised in order to allow for the retention of the existing hedgerow, that cross the site from west to east demarcating the land parcels that make up the site, and retaining the existing scale and pattern of the landscape. In addition to the above, the retention of the existing hedgerow will help reduce the impacts of the proposed development upon users of PRow (footpath) KL/DEN/13/20, along the section of the route diverted by the Proposed Development.

The construction programme will be kept to a minimum practicable period to reduce the duration of any landscape and visual impacts. Areas will be cleared for construction as close as possible to works commencing. Ground cultivation, reseeding and planting will be carried out, where the program allows within the optimum planting season associated with each representative planting type during favourable weather conditions. Where this is not feasible, additional short term maintenance requirements will be put in place to ensure successful establishment of mitigation planting i.e, watering of newly planted plants during periods of prolonged dry spells, or excessive heat to ensure successful plant establishment.

Works during hours of darkness will be avoided as far as practicable and where necessary directed/ targeted lighting will be used to minimise light pollution and glare. Lighting levels would be kept to a minimum necessary for security and safety.

Construction will be managed so that the loss of any existing trees, or grassland vegetation not affected by the works is avoided.

The proposed method of working in order to enable the installation of the rising main, will be constructed using a trenchless pipework methodology, beneath the River Dearne, avoiding the removal of large sections of existing woodland to the north of the existing WwTW.

Section 5.4 – Mitigation Measures – unchanged

Section 5.5 – Enhancement Measures - unchanged

Appraisal of Likely Effects

Refer to the revised **Appendix B (Addendum)**, for a detailed revised assessment of the proposed effects associated with the Proposed Development upon the receiving environment.

Section 6.2 – Landscape Effects

Para 6.2.2 – length of existing hedgerow, permanently lost to the Proposed Development reduced from 434 m to 201 m.

para 6.2.4 – deleted

Due to the scale of the Proposed Development the magnitude of change upon the receiving landscape character area is considered to be negligible when compared to the geographical coverage of the landscape character area as a whole.

Section 6.3 – Visual Effects

In general, the revised change to the layout of the site, will have a beneficial effect upon the magnitude of change, proposed by the Proposed Development upon the receiving environment. The retention of the hedgerow now separating the cells to the north from those to the south, will reduce the magnitude of change, when viewed from viewpoints 1 and 5, principally associated with effects upon users of PRoW (footpath) KL/DEN/13/20. From here, the nature of the effect is unlikely to change significantly between operational year 1 and operational year 15, due to limited land availability allowing for the provision of screen planting directly to the north of the diverted PRoW.

In general, the outcome of the appraisal remains unaffected - Para 6.3.1 – 6.3.13 – remain relevant and unchanged.

Para 6.3.14 – is to be changed to:

There will be a perceptible change to the nature of the transient views associated with PRow (footpath) KL/DEN/13/20, following the construction of the Site. When travelling in a westerly direction the proposed diversion will result in the PRow travelling along the northern edge of the River Dearne, shortening the length of the view when looking in a southerly direction, to the immediate river corridor itself. To the north, the southern row of wetland cells will form the immediate foreground of the view, due to the absence of intervening screen planting. The cells will form a permanent negative change to the nature of the view, with manmade structures and areas of hardstanding discernible within view. Those cells to the far north, identified as cells No 1-3, will predominantly be screened from view, by the retained section of hedgerow. From the east, travelling in a westerly direction the nature of the view will predominantly remain unchanged along the existing section of the PRow. Upon entering the site, via the proposed stepping stones allowing access across the unnamed water course, the change to the nature of the view will be consistent with that described above. In addition to the above the relocation of the PRow, further to the south, will result in a slight beneficial effect upon the sense of tranquillity along the section of the route that has been diverted, due to the awareness of noise from vehicle movements along Wakefield Road, being replaced by the movement of water along the river corridor itself. On balance, the adverse effects associated with the proposed works upon the visual amenity will be slightly offset, by the beneficial attributes associated with the sensory qualities experienced by the user resulting in a reduced adverse magnitude of change overall.

Due to the revised site layout, the magnitude of change upon users of PRow (footpath) KL/DEN/13/20, has been reduced from moderate to minor, for both operational year 1 and year 15, reducing the nature of effect from moderate to minor adverse, in both instances. Effects during the construction phase of the works remain unchanged, with effects being temporary in nature, but considered to be moderate adverse.

Summary

The Site is currently split in two by the River Dearne, which crosses the Site from west to east. To the north of the river, the Site is comprised of rough grazing pasture, subdivided into smaller land parcels by native hedgerows. Within this area the hedgerows are considered to be generally in poor condition containing a limited number of species along them. To the south of the river, the Site comprises of the main infrastructure associated with the WwTW, including filter beds, and humus tanks. To its west, associated with the River Dearne corridor there is a small block of mature trees, that provides visual screening from close-range views of the main WwTW from the west.

Impacts relating to the Proposed Development are predominately restricted to the construction and operational phase of the main wetland cells created within the northern half of the Site. Impacts relating to the installation of the above ground pumping kiosk, and below ground pumping kiosk (the latter is considered to be permitted development) will predominantly be screened from view by the retention of the mature block of woodland shelter belt, located along the northern and western edge of the main WwTW. Following construction, the above ground structures will be perceived as a continuation of the existing infrastructure associated with the main WwTW itself, resulting in No Change.

The Proposed Development is considered to have a slight beneficial effect on landscape character at a local level by operational year 15, following the establishment of the proposed wetland cells, and mitigation planting, replacing landscape features removed by the Proposed Development with equal or in most cases better landscape elements than previously.



It is not considered likely that the Proposed Development will impact the protected openness of the Green Belt, during the construction or operational phase of the works.

The visual impact of the Proposed Development is considered to be moderate at worst, with most of the works being screened from view by the natural topography of the surrounding landscape and intervening vegetation. Visual receptors anticipated to be impacted by the Proposed Development are located to the south and west of the Site and are associated with the PRoW. From here, visual awareness of the change to the nature of the land use will be perceptible within views, including areas of hard standing, rip rap, and built form, introducing elements considered to be detracting within view. However, the Proposed Development is considered to have a slight beneficial effect upon the experience of users of PRoW, by enhancing the users' sense of tranquillity when travelling along the route, by increasing the distance of separation between the receptor and vehicle movement along Wakefield Road. Along the diverted section of the route, the dominant sound, and visual influence will be the movement and sound of the water along the river corridor itself, reducing the magnitude of change overall. The effects of the Proposed Development, has been assessed as no greater than moderate adverse during construction, reducing to minor adverse during the operational phase.

Visual receptors comprising residential receptors and users of the local road network are not anticipated to be subject to a significant effect during the construction phase and reducing to neutral by operational year 15, following the reestablishment of the grassland around the cells.

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Supporting LVA Figures updated.

Dearne Reach 1 – Wetland Scheme – Landscape and Visual Appraisal – Representative Viewpoints
Dearne Reach 1 – Wetland Scheme, Landscape Character Contextual Photographs

If you require clarification on the above, please get in touch.

Yours Sincerely

Name Fearn Sims
Title – Senior Landscape Architect - WSP



Landscape and Visual Appraisal – Schedule of Effects

The following tables present the findings of the Landscape and Visual Appraisal, for receptor groups present within the 1km study area.

LANDSCAPE CHARACTER AREAS

For the purpose of this assessment only those landscape character areas identified at a local level, have been appraised. This is due to effects associated with the Proposed Development anticipated to be perceivable at a local level due to the relatively small footprint of the Site. The magnitude of change at a national scale would be imperceptible and thus has been omitted from the assessment.

Landscape Character Areas	Description of Effect	Magnitude of Change	Significance of Effect
Wooded Rural Valleys -River Dearne Valley Sensitivity = Moderate	<p>Construction</p> <p>The Proposed Development will directly impact the LCA, resulting in a permanent land use change, within a localised area. The Proposed Development will result in an area of grazing pasture, within the River Dearne floodplain being permanently converted into wetland cells, altering the nature of the existing site's topography, habitat types, and spatial arrangement, by removing partitioning field hedgerows.</p> <p>During the construction phase of the works, temporary visual awareness of machinery will increase the visual awareness of the Site within the landscape, however the magnitude of change will be negligible adverse in this instance given the Site's proximity to Wakefield Road, and the regular movement of vehicles within the landscape at that point.</p> <p>The works will result in the permanent loss of existing landscape features, including 8no. trees, and 201 linear meters of hedgerow.</p> <p>The magnitude of change during the construction phase of the works is significantly reduced due to the proximity of the Site to the existing Wakefield Road, creating</p>	<p>Construction: Minor Adverse</p> <p>Operational Yr 1: Minor Adverse</p> <p>Operational Yr 15: Minor Beneficial</p>	<p>Construction: Slight Adverse</p> <p>Operational Yr 1: Slight Adverse</p> <p>Operational Yr 15: Slight Beneficial</p>



	<p>visual disturbance within the landscape and reducing the area's overall sense of tranquillity. Impacts will be temporary due to the nature of the works.</p> <p>Operational</p> <p>Following construction, the overall form and fabric of the site will be permanently changed, however due to the scale of the works in comparison to that of the LCA, the magnitude of change will be negligible.</p> <p>At a local level, the wetland cells will introduce a new element within the landscape not currently found within the local area, increasing the diversification of landscape features, and resulting in a slight beneficial magnitude of change.</p> <p>Further species diversification is proposed within the areas directly adjacent to the wetland cells themselves, with a more species rich grassland mix being proposed in favour of a species poor pastoral grassland mix adding variety to the landscape elements.</p> <p>Mitigation</p> <p>The method of installation of the rising main, will be carried out using a trenchless pipework method to retain the established area of woodland trees to the north-west of the main WwTW.</p>		
<p>Rolling Wooded Farmland – Emley Moor</p> <p>Sensitivity = Moderate</p>	<p>Construction:</p> <p>The Proposed Development will indirectly impact the LCA during the construction phase of the works, by being perceived within views, from areas of higher ground located along the LCA's southern boundary. However, due to the increased distance in separation, and scale of the proposed works in comparison to that of the wider landscape setting the magnitude of change will be negligible, with the Proposed Development perceived as a temporary alteration to a landscape that is regularly being altered through farming practices.</p> <p>Operational</p>	<p>Construction:</p> <p>Negligible Adverse</p> <p>Operational Yr 1:</p> <p>Negligible Adverse</p> <p>Operational Yr 15:</p> <p>Negligible Adverse</p>	<p>Construction</p> <p>Neutral</p> <p>Operational Yr 1</p> <p>Neutral</p> <p>Operational Yr 15</p> <p>Neutral</p>

	<p>Following construction, the change in land use within the northern half of the site will be perceptible within view from areas of higher ground located along the southern extent of the adjoining LCA. However, the magnitude of change will be negligible, when compared to that of the wider LCA.</p> <p>Mitigation</p> <p>No specific mitigation is proposed associated with these receptors.</p>		
<p>Rolling Wooded Farmland – Cawthorne Park & West Barnsley Rolling Wooded Farmland</p> <p>Sensitivity = Moderate</p>	<p>Construction</p> <p>Impacts relating to the construction phase of the works will be screened from view by intervening features. – no change</p> <p>Operational</p> <p>Impacts relating to the operational phase of the works will be screened from view by intervening features – no change</p>	<p>Construction:</p> <p>No Change</p> <p>Operational Yr 1:</p> <p>No Change</p> <p>Operational Yr 15:</p> <p>No Change</p>	<p>Construction:</p> <p>Neutral</p> <p>Operational Yr 1:</p> <p>Neutral</p> <p>Operational Yr 15:</p> <p>Neutral</p>

REPRESENTATIVE VIEWPOINTS

Visual Receptor	Description of Effect	Magnitude of Change	Significance of Effect
Viewpoint 1 - view looking in a south-easterly direction	This viewpoint is representative of transient views of people using the PRoW and Wakefield Road when travelling in a north-easterly direction and static views from	Construction:	Construction:

<p>from the junction of Wakefield Road (A636) and Back Lane</p> <p>Representative of users of footpaths, residential receptors considered to be of high sensitivity and road users of lower sensitivity.</p> <p>Located directly at the north-western corner of the site boundary</p>	<p>nearby residential properties to the north of the Proposed Development, principally Gilcar Farm.</p> <p>The nature of existing views is predominantly of an undeveloped pastoral landscape with dense woodland blocks, prominent on areas of higher ground. Views are considered to be predominantly medium-range in nature due to the rising topography of the landform to the east and south, obstructing long-range views in these directions.</p> <p>Within the immediate foreground of associated views, rough grassland associated with the floodplain of the River Dearne dominates views, bounded by fragmented hedgerows. Within the middle-distance of views, the riparian woodland, located on either side of the River Dearne denotes the course of the river corridor as it traverses through the landscape from west to east.</p> <p>There are no notable detracting features associated with the nature of existing views.</p> <p>During the construction phase of the works, views of the main construction works located within the northern half of the Site will be prominent within view. However due to the temporary nature of the works, and the proximity of the site to Wakefield Road, the visual disturbance through the visual awareness of construction machinery, will be significantly reduced.</p> <p>Impacts relating to the installation of the above ground pumping kiosk, and below ground pumping kiosk (the latter is considered to be permitted development) will be screened from view, by the retention of the mature block of woodland shelter belt, located along the northern and western edge of the main WwTW.</p> <p>Following construction, visual awareness of the change in the current land use, and the permanent alteration of the landform will be perceivable. .</p> <p>Visual awareness will be most discernible from areas of higher ground where the pattern of the cells will be perceivable, including visual awareness of areas of hardstanding, including the stone access paths, headwalls and isolated area of rip-rap associated with cell 1. This is predominantly related to views from PRoW (footpath) KL/DEN/15/50 when travelling in a southerly direction.</p>	<p>Nearby residential properties – No Change</p> <p>Users of PRoW – Moderate</p> <p>Users of Wakefield Road - Minor</p> <p>Operational Yr 1:</p> <p>Nearby residential properties – No Change</p> <p>Users of PRoW – Minor</p> <p>Users of Wakefield Road -Minor</p> <p>Operational Yr 15:</p> <p>Nearby residential properties – No Change</p> <p>Users of PRoW – Minor</p> <p>Users of Wakefield Road - No Change</p>	<p>Nearby residential properties – Neutral</p> <p>Users of PRoW (KI/DEN/13/20) – Temporarily Closed</p> <p>Users of PRoW (KL/DEN/15/50, KL/DEN/15/30 – Moderate Adverse</p> <p>Users of Wakefield Road -Slight Adverse</p> <p>Operational Yr 1:</p> <p>Nearby residential properties – Neutral</p> <p>Users of PRoW – Slight Adverse</p> <p>Users of Wakefield Road -Slight Adverse</p> <p>Operational Yr 15:</p> <p>Nearby residential properties – Neutral</p> <p>Users of PRoW – Slight Adverse</p>
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	<p>Views from Wakefield Road, will be partially screened by the existing boundary hedgerows separating the site from the adjacent road corridor. However, the retention of the field boundary hedgerow along the western boundary of the site, is considered to be less effective at screening impacts associated with users of those PRoW, associated with Back Lane, due to being identified as bridleway, increasing the eye level of the respective receptor, above that of the hedgerow itself.</p> <p>There will be a perceptible change to the nature of the transient views associated with PRoW (footpath) KL/DEN/13/20, following the construction of the Site, due to being diverted further to the south, then that at present. The proposed diversion will result in the PRoW travelling along the northern edge of the River Dearne, shortening the length of the view when looking in a southerly direction, to the immediate river corridor itself. To the north, the southern row of wetland cells will form the immediate foreground of the view, due to the absence of intervening screen planting. The cells will form a permanent negative change to the nature of the view, with manmade structures and areas of hardstanding discernible within view. Those cells to the far north, identified as cells No 1-3, will predominantly be screened from view, by the retained section of hedgerow. . In addition there will be a slight beneficial effect upon the sense of tranquillity along the section of the route that has been diverted, will increase due to the noise of the traffic along Wakefield Road, being replaced by the sound of water along the river corridor itself.</p> <p>On balance, the adverse effects associated with the proposed works will be slightly offset, by the beneficial attributes associated with the diverted route of the PRoW, resulting in a reduced adverse magnitude of change overall.</p> <p>Mitigation</p> <p>Temporary closure of PRoW (Footpath) KL/DEN/13/20 during the construction phase of the works. Following construction, the western half of PRoW KL/DEN/13/20 will be diverted further to the south, following the course of the River Dearne.</p> <p>Retention of the majority of the existing hedgerow, that crosses the site from west to east, providing visual screening of cells 1-3, when looking in a northerly direction.</p>		<p>(Users of PRoW (KL/DEN/13/20).</p> <p>All other Users of PRoW – Slight Adverse</p> <p>Users of Wakefield Road -Neutral</p>
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	<p>It is proposed that the existing hedgerow along Wakefield Road, be allowed to grow in height by an additional 1m in order to screen views into the Site more effectively and provide greater ecological value.</p> <p>Due to the limited availability of land to the south of the cells separating them from the users of the diverted footpath.</p> <p>Receptor Groups</p> <p>Due to the topography of the intervening landscape, views of the Site are screened from those residential properties located within 1km of the Site to the north. Beyond 1km of the Site, it is considered unlikely that residential properties would have a view of the Site, and the associated Proposed Development, with more prominent features recorded within the foreground of wider views, resulting in a negligible change to the nature of the view. As such, all views from residential properties have been appraised as No Change.</p> <p>Wakefield Road users (moderate) including footpath users located within grass verge of Wakefield Road (moderate)</p> <p>Users of PRoW footpaths (KL/DEN/15/50, & KL/DEN/13/20) and Bridleways KL/DEN/15/40, & KL/DEN/15/30)</p> <p>View from PRoW (KL/DEN/13/10 screened from view by existing vegetation along western verge of Back Lane – scoped out</p>		
<p>Viewpoint 2 - view looking in a north-easterly direction from PRoW (KL/DEN/15/20)</p> <p>Representative of users of footpaths considered to be of high sensitivity.</p> <p>Approximately 240m from Site</p>	<p>The nature of existing views is predominantly of the undeveloped river valley landscape, to the north of the Site. Within the immediate foreground of views, the descending fieldscape is prominent as it approaches the flatter valley floor, associated with the River Dearne. Within views along the valley floor is the existing infrastructure of the Waste Water Treatment Works (WwTW). Woodland blocks are frequent within views, delineating the route of the river corridor as it meanders from west to east. Subsequent areas of dense woodland blocks are notable on the ascending ground to the north on approach to the horizon, screening views of scattered hamlets and built form.</p>	<p>Construction:</p> <p>Users of PRoW - Minor</p> <p>Operational Yr 1</p> <p>Users of PRoW – No Change</p>	<p>Construction</p> <p>Users of PRoW – Slight Adverse</p> <p>Operational Yr 1</p> <p>Users of PRoW – Neutral</p>

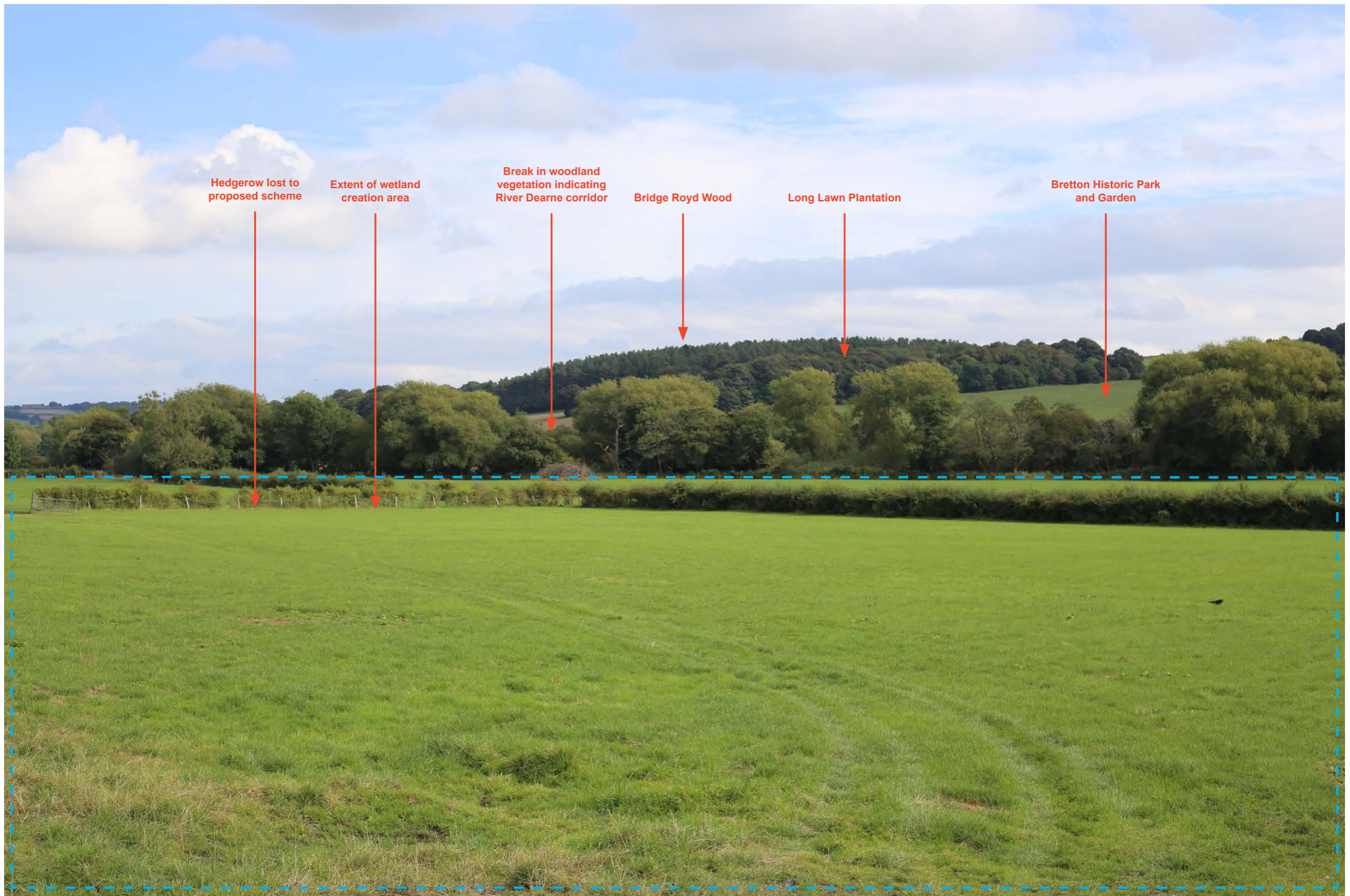
	<p>With the exception of the infrastructure associated with the existing WwTW, there are limited detracting features noted within the nature of existing views.</p> <p>During the construction phase of the works, visual awareness of site activities will be restricted to the construction of the above ground pumping station kiosk, and below ground pumping station. All other works will be screened from view by the intervening screen woodland shelter belt located along the western and northern edge of the main WwTW.</p> <p>Following construction, the above ground pumping kiosk will be perceived as a continuation of the existing site infrastructure resulting in No Change to the nature of the view.</p> <p>Mitigation</p> <p>No specific mitigation is proposed associated with these receptors.</p> <p>Receptors Groups</p> <p>This viewpoint is representative of transient views from PRoW KL/DEN/15/20 when looking in a northerly direction.</p> <p>Users of PRoW (KL/DEN/15/20) (High) - Views from PRoW KL/DEN/15/60 – screened from view by topography of the landscape – scoped out</p>	<p>Operational Yr 15 –</p> <p>Users of PRoW - No Change</p>	<p>Operational Yr 15</p> <p>Users of PRoW – Neutral</p>
<p>Viewpoint 3 - view looking in a north-westerly direction from Clayton Farm</p> <p>Representative of users of footpaths and residential receptors considered to be of high sensitivity.</p> <p>Approximately 425m from Site</p>	<p>The nature of existing views is similar to that from viewpoint 2, with long-range views of the ascending ground to the north, discernible within views beyond the flatter River Dearne floodplain landscape. Detracting features remain predominantly screened from view by the natural topography of the landscape, and frequent woodland block.</p> <p>Views of the existing infrastructure associated with the WwTW are less prominent within views from this location, as it is partially screened from view by the brow of the intervening landform, and a copse of trees. However, due to a break within the copse located centrally within the view as a result of the overhead powerlines, the trees create a visual vista, from this elevated location, framing views of a small section of the WwTW, increasing its visual prominence within views. During the winter months when the trees are not in leaf, the visual prominence of the WwTW will be slightly more discernible within views from this direction.</p>	<p>Construction</p> <p>Nearby residential properties - Negligible</p> <p>Users of PRoW – Moderate</p> <p>Workers at Clayton Hall Farm Bioenergy LLp - Moderate</p>	<p>Construction</p> <p>Near by residential properties – Slight Adverse</p> <p>Users of PRoW – Moderate Adverse</p> <p>Workers at Clayton Hall Farm Bioenergy LLp – Slight Adverse</p>

	<p>During the construction phase of the works, visual awareness of the Proposed Development will be discernible within views above the canopy of the trees, due to the elevated position of the visual receptors. However due to the increased distance in separation, and more prominent features discernible within the foreground of view, the magnitude of change, during the construction phase of the works will be reduced in comparison to that from Viewpoints 1 and 5.</p> <p>Following construction, the wetland cells will be discernible within views above the canopy of the trees. Visual effects will be most prominent during the early operational years, prior to plant establishment. However, due to the arable nature of the adjoining landscape, the newly disturbed wetland area is unlikely to appear out of place, contextually, and thus the magnitude of change is reduced.</p> <p>Mitigation</p> <p>No specific mitigation is proposed associated with these receptors.</p> <p>Receptor groups</p> <p>The viewpoint is representative of transient views of uses of PRoW K/L/DEN/33/50 and static views from nearby residential property Clayton Farm and workers at Clayton Hall Farm Bioenergy Llp. Due to the topography of the intervening landscape, and perimeter boundary treatment of the residential property, it is considered likely that views of the Site are restricted to first-floor windows only in this instance, reducing the overall sensitivity of views associated with this receptor.</p> <p>Residential Properties (Moderate)</p> <p>Users of PRoW (KL/DEN/33/50) (High)</p> <p>Workers at Clayton Hall Farm Bioenergy Llp (Low)</p>	<p>Operational Yr 1</p> <p>Nearby residential properties – No Change</p> <p>Users of PRoW – Minor</p> <p>Workers at Clayton Hall Farm Bioenergy Llp - Negligible</p> <p>Operational Yr 15</p> <p>Nearby residential properties – No Change</p> <p>Users of PRoW – Negligible</p> <p>Workers at Clayton Hall Farm Bioenergy Llp – No Change</p>	<p>Operational Yr 1</p> <p>Nearby residential properties - Neutral</p> <p>Users of PRoW – Slight Adverse</p> <p>Workers at Clayton Hall Farm Bioenergy Llp – Neutral</p> <p>Operational Yr 15</p> <p>Nearby residential properties - Neutral</p> <p>Users of PRoW – Slight Adverse</p> <p>Workers at Clayton Hall Farm Bioenergy Llp - Neutral</p>
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<p>Viewpoint 4 – view looking in a north-westerly direction from PRoW KL/DEN/33/50</p> <p>Representative of users of footpaths, residential receptors considered to be of high sensitivity and road users of lower sensitivity.</p> <p>Approximately 600m from Site</p>	<p>The nature of existing views is of a wide-open landscape, with tree-lined hedgerows and scattered woodland blocks. A dense area of more concentrated woodland is located to the west, along the eastern and northern edge of the main settlement of Clatton West.</p> <p>Located centrally within views and prominent on the horizon, is the Emley Moor transmitting tower, the tallest free-standing structure in the UK. The tower defines a sense of place and is a prominent feature within the landscape. With the exception of the infrastructure associated with the existing WwTW (discernible within the middle-distance of views), detracting features within the landscape are infrequent, and predominantly screened from views by intervening features.</p> <p>Vehicle movement along Wakefield Road is discernible within views from this elevated location, drawing attention to its presence.</p> <p>During the construction phase of the works, the full extent of the Proposed Development will be discernible within views from this elevated location. However, given the increased distance in separation between the receptor and the Site the magnitude of change will be significantly reduced. The visual prominence of the works will be greatest during the winter months when the trees along the River Dearne corridor are not in leaf.</p> <p>Following construction, the wetland cells will be discernible within view above the canopy of the trees. Visual effects will be most prominent during the early operational years, prior to plant establishment. However, due to the arable nature of the adjoining landscape, the newly disturbed wetland area is unlikely to appear out of place, contextually, and thus the magnitude of change is reduced.</p> <p>Mitigation</p> <p>No specific mitigation is proposed associated with these receptors.</p> <p>Receptor Groups</p> <p>The viewpoint is representative of long-range transient views from PRoW KL/DEN/33/50 and static views from nearby residential receptors located along Litherop Lane.</p>	<p>Construction</p> <p>Users of PRoW – Moderate</p> <p>Nearby residential properties – Negligible</p> <p>Operational Yr 1</p> <p>Users of PRoW – Minor</p> <p>Nearby residential properties – No Change</p> <p>Operational Yr 15</p> <p>Users of PRoW – Negligible</p> <p>Nearby residential properties – No Change</p>	<p>Construction</p> <p>Users of PRoW – Moderate Adverse</p> <p>Nearby residential properties – Slight Adverse</p> <p>Operational Yr 1</p> <p>Users of PRoW – Slight Adverse</p> <p>Nearby residential properties – Neutral</p> <p>Operational Yr 15</p> <p>Users of PRoW – Slight Adverse Effect</p> <p>Nearby residential properties – Neutral</p>
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	<p>Users of PRow KL/DEN/33/50 (High) Views of the site, from PRow KL/DEN/33/60, BL/High Hoyland CP/1, and BL/High Hoyland CP/16 – screened from view by intervening topography – scoped out</p> <p>Residential Properties (Moderate) - Visual awareness of the Site, from those nearby residential properties will be reduced in comparison to that of the users of the PRow, in this instance, due to the orientation of the properties, and the dense linear belt of trees along Litherop Lane, filtering views of the Site during the summer months. During the winter months, views of the Site are considered to be slightly more discernible within view.</p>		
<p>Viewpoint 5 – view looking in a south-westerly direction from PRow (KL/DEN/13/20). Approximately 320m to the east of the Site boundary</p>	<p>The nature of existing views is of a flat river floodplain, with woodland cover combined with hedgerows and hedgerow trees to screen views of detracting features within the landscape. Within the immediate foreground of views, rough grazing pasture is prominent, bound by tree-lined hedgerows, and scattered mature trees.</p> <p>During the construction phase of the works, views of the main construction works located within the northern half of the Site will be prominent within view. However due to the temporary nature of the works, and the proximity of the site to Wakefield Road, the visual disturbance through the visual awareness of construction machinery, will be significantly reduced.</p> <p>Impacts relating to the installation of the above ground pumping kiosk, and below ground pumping kiosk (the latter is considered to be permitted development) will be screened from views by the retention of the mature block of woodland shelter belt, located along the northern and western edge of the main WwTW.</p> <p>Following construction, visual awareness of the change in the current land use, and the permanent alteration of the landform will be perceivable during the early operational years, prior to plant establishment along the unnamed water course, located along the eastern edge of the site boundary.</p> <p>From the east, travelling in a westerly direction, the nature of the view will predominantly remain unchanged, along the section of the PRow, not diverted as a result of the Proposed Development. Upon entering the site, via the proposed stepping stones allowing access across the unnamed water course, the change to the nature of the view will be consistent with that associated with Viewpoint 1. From</p>	<p>Construction</p> <p>Users of PRow – Temporary Closure</p> <p>Users of Litherop Lane – No Change</p> <p>Operational Yr 1</p> <p>Users of PRow – Minor</p> <p>Users of Litherop Lane – No Change</p> <p>Operational Yr 15</p> <p>Users of PRow – Minor</p> <p>Users of Litherop Lane – No Change</p>	<p>Construction</p> <p>Users of PRow – Temporary Closure</p> <p>Users of Litherop Lane – Neutral</p> <p>Operational Yr 1</p> <p>Users of PRow – slight Adverse</p> <p>Users of Litherop Lane – Neutral</p> <p>Operational Yr 15</p> <p>Users of PRow – Slight Adverse</p> <p>Users of Litherop Lane – Neutral</p>

	<p>here, there will be a perceptible change to the nature of the transient views. The diversion will result in the PRow, travelling along the northern edge of the River Dearne, shortening the length of the view when looking in a southerly direction, to the immediate river corridor itself. To the north, the wetland cells will form the immediate foreground of the view, due to the absence of intervening screen planting. There will be a slight beneficial effect on the sense of tranquillity along the western section of the route with the noise of the traffic along Wakefield Road, being replaced by the movement and sound of flowing water along the river corridor itself.</p> <p>On balance, the adverse effects associated with the proposed works will be slightly offset, by the beneficial attributes associated with the diverted route of the PRow, resulting in a reduced adverse magnitude of change overall.</p> <p>Mitigation</p> <p>Temporary closure of PRow (Footpath) KL/DEN/13/20 during the construction phase of the works. Following construction, the western half of PRow KL/DEN/13/20 will be diverted further to the south, following the course of the River Dearne.</p> <p>Infill planting will be carried out along the unnamed watercourse located along the eastern edge of the site, creating a more robust green corridor within the landscape, and providing visual screening on approach from the east.</p> <p>Receptor Groups</p> <p>This viewpoint is both a specific and a representative viewpoint of transient views from users of the when travelling in an east / west direction, parallel to the southern boundary of the Site.</p> <p>Users of PRow (KL/DEN/13/20 & KL/DEN/13/30) (High)</p> <p>Litherop Lane Road Users (Moderate)</p>		
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Viewpoint 1

View looking in a south easterly direction from the junction of Wakefield Road(A636) and Vack Lane access road

Camera: Canon EOS 6D Mark II

Date: 14.09.2023

Dearne Reach 1 - Wetland Creation Scheme
Landscape and Visual Impact Appraisal - Representative Viewpoints



Viewpoint 2

View looking in a north easterly direction from PRow (footpath) KL/DEN/15/20

Camera: Canon EOS 6D Mark II

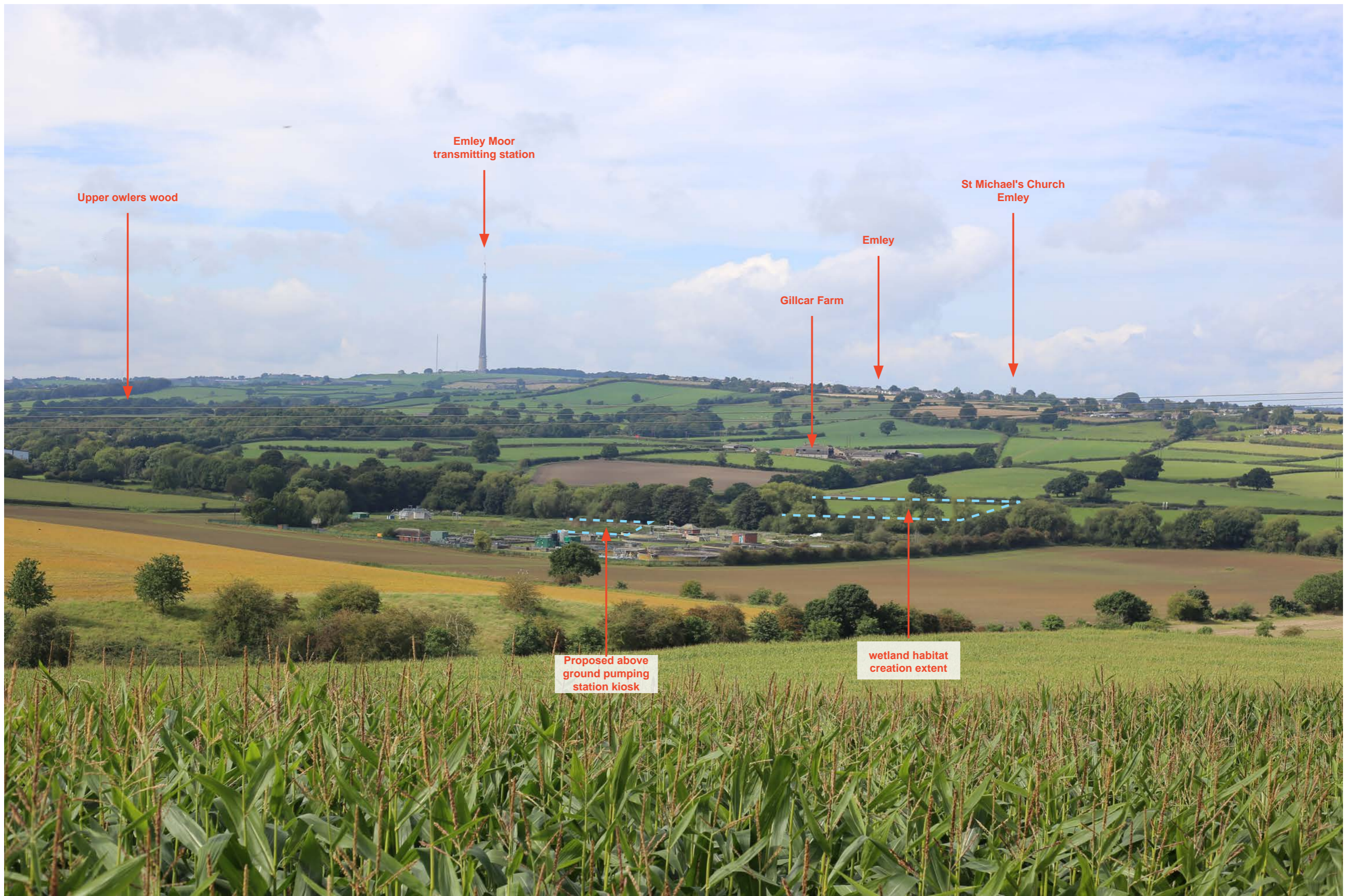
Date: 14.09.2023

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Viewpoint 3
View looking North West from Clayton Hall
Camera: Canon EOS 6D Mark II
Date: 14.09.2023

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Viewpoint 4

View looking in a north westerly direction from PRow KL/DEN/33/50

Camera: Canon EOS 6D Mark II

Date: 14.09.2023

Dearne Reach 1 - Wetland Creation Scheme
Landscape and Visual Impact Appraisal - Representative Viewpoints

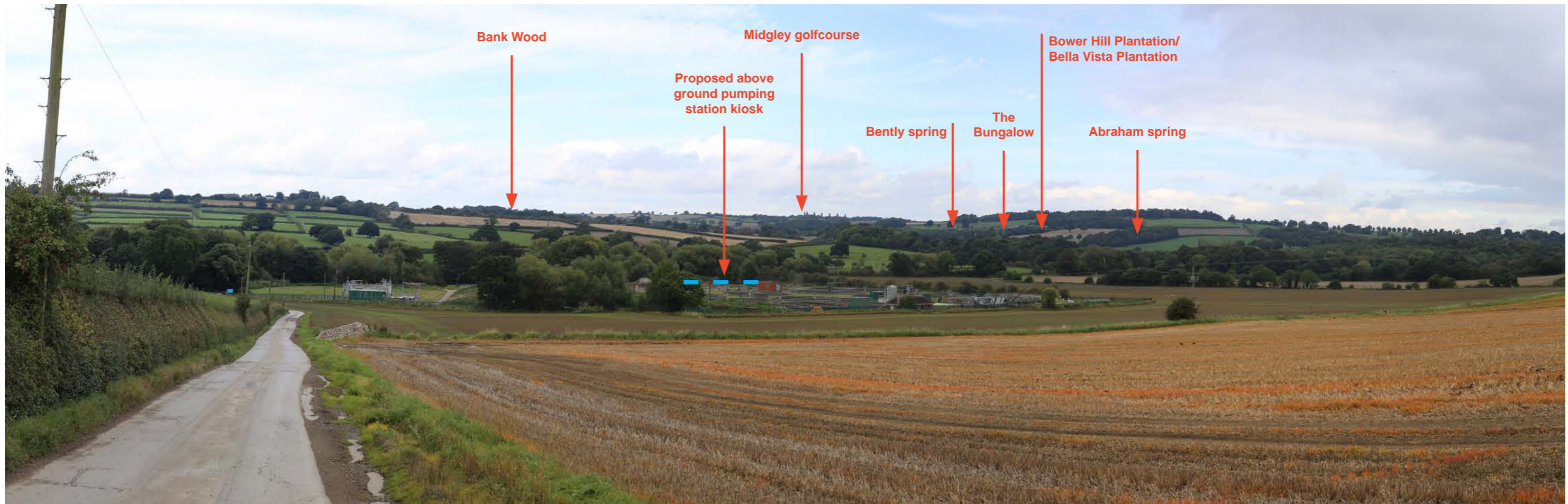
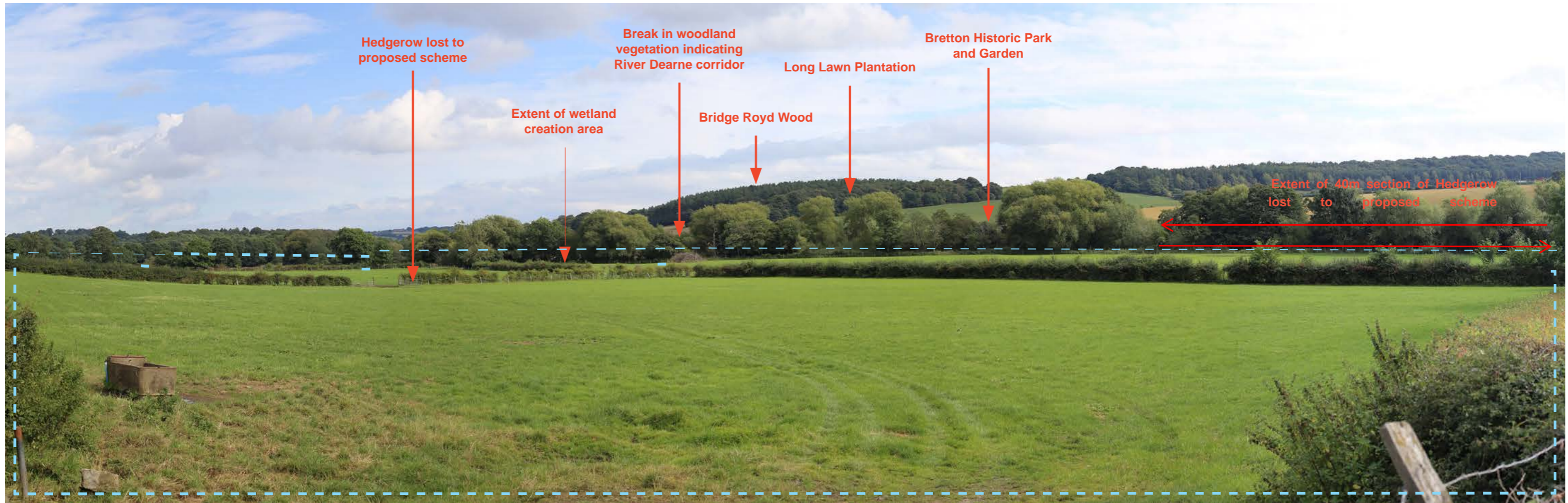


Viewpoint 5

View looking in a south-westerly direction from PRoW KL/DEN/13/20 along the southern extent of the development boundary

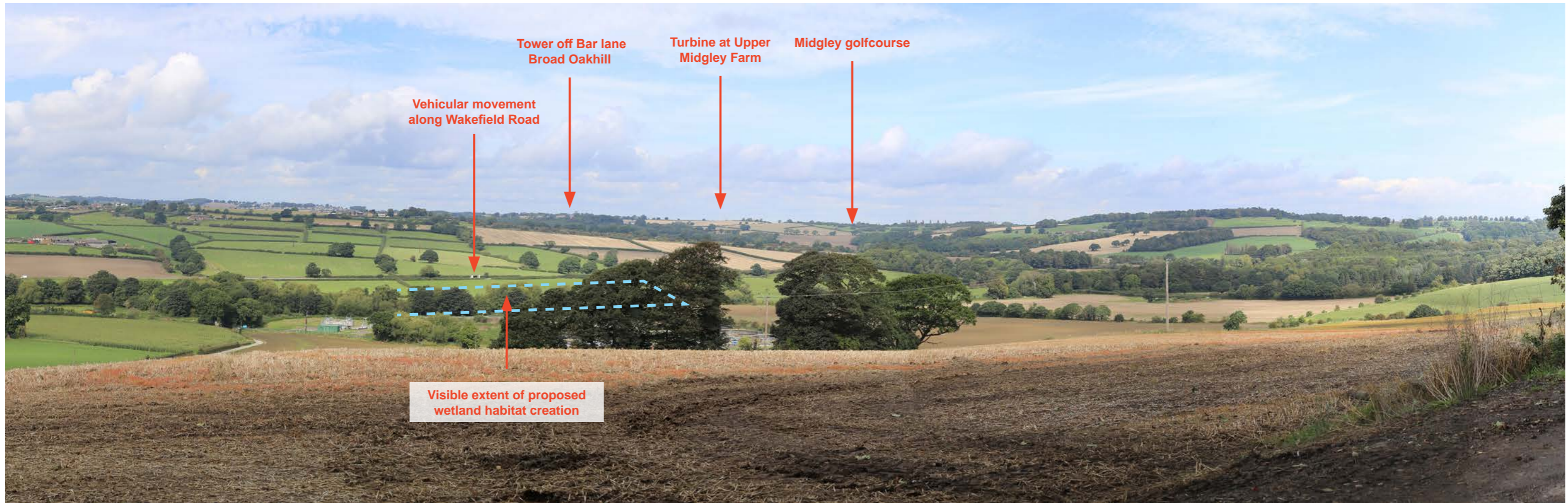
Camera: Canon EOS 6D Mark II

Date: 14.09.2023



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Dearne Reach 1 - Wetland Scheme
 Landscape Character Contextual Photographs
 Viewpoints 1&2



Visible extent of proposed wetland habitat creation

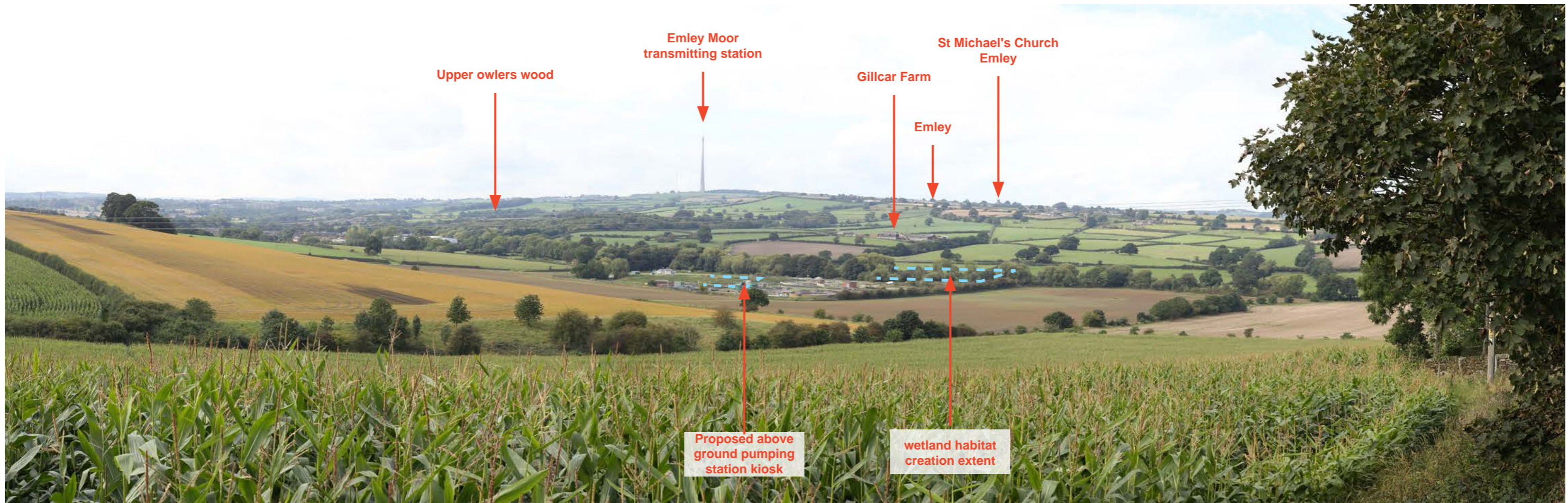
Vehicular movement along Wakefield Road

Tower off Bar lane Broad Oakhill

Turbine at Upper Midgley Farm

Midgley golfcourse

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Proposed above ground pumping station kiosk

wetland habitat creation extent

Upper owlers wood

Emley Moor transmitting station

Gillcar Farm

Emley

St Michael's Church Emley

Dearne Reach 1 - Wetland Scheme

Landscape Character Contextual Photographs

Viewpoints 3&4

