



Site Boundary



Client
Oxford City Council

World Imagery: Maxar, Microsoft
GB Background: Contains OS data © Crown
Copyright and database right 2023
Contains data from OS Zoomstack

Date: 19/10/2023
Drawn: LW
Checked: GS

OXPENS RIVER BRIDGE
Site Location Plan

Figure 01 Rev A



Appendix B Baseline and post intervention indicator scores

1. Baseline

| <i>Sub-Reach name</i> | Condition score | River Type | Final Condition | Baseline TWU | TWU | TWU increase | BNG % |
|-----------------------|-----------------|------------|-----------------|--------------|-----|--------------|-------|
| <i>Oxpens Bridge</i> | -0.008097152 | Navigable | Fairly Poor | 2.98 | - | - | - |

2. Without enhancement (retaining river condition)

| <i>Sub-Reach name</i> | Condition score | River Type | Final Condition | Baseline TWU | TWU | TWU increase | BNG % |
|-----------------------|-----------------|------------|-----------------|--------------|------|--------------|-------|
| <i>Oxpens Bridge</i> | -0.008097152 | Navigable | Fairly Poor | 2.98 | 2.98 | 0 | 0 |

3. Riparian and marginal planting

| <i>Sub-Reach name</i> | Condition score | River Type | Final Condition | Baseline TWU | TWU | TWU increase | BNG % |
|-----------------------|-----------------|------------|-----------------|--------------|------|--------------|-------|
| <i>Oxpens Bridge</i> | 0.174089069 | Navigable | Moderate | 2.88 | 3.51 | 0.63 | 20.97 |

Appendix C Description of enhancement types

| <i>Enhancement type</i> | Description |
|---|---|
| <i>Naturalise bank top ground cover</i> | Removal or change in managed riparian habitat to more natural vegetation. Could include removal of improved grassland up to bank top with a more diverse species rich grassland mix. |
| <i>Marginal planting</i> | An increase in marginal vegetation diversity and structure with the introduction of seeded coil rolls or other planted vegetation. This measure needs to be protected from high flows to establish. |



Appendix D Baseline positive and negative scores for each sub-reach

Bank Top scores (B1-5) – Green indicates positive scores, Red indicates negative scores

| | | | | | | | | | | |
|---------------|---|------------------------------------|---|-------------------------------------|----|--------------------------------------|--|---------------------------|--|------------------------------------|
| | | B1 - Bank top vegetation structure | | B2 - Bank top tree feature richness | | B3 - Bank top water-related features | | B4 - Bank top NNIPS cover | | B5 - Bank top managed ground cover |
| Oxpens Bridge | 1 | 1 | 0 | 0 | -3 | | | | | |

Bank face scores (C1-10)

| | | | | | | | | | | | | | | | | | | | | |
|---------------|---|--|---|--------------------------------------|---|--|---|--|----|---|--|-------------------------------------|--|---|--|-------------------------------------|--|---------------------------------------|--|-----------------------------|
| | | C1 - Bank face riparian vegetation structure | | C2 - Bank face tree feature richness | | C3 - Bank face natural bank profile extent | | C4 - Bank face natural bank profile richness | | C5 - Bank face natural bank material richness | | C6 - Bank face bare sediment extent | | C7 - Bank face artificial bank profile extent | | C8 - Bank face reinforcement extent | | C9 - Bank face reinforcement material | | C10 - Bank face NNIPS cover |
| Oxpens Bridge | 0 | 1 | 2 | 3 | 2 | 1 | 0 | 0 | -4 | 0 | | | | | | | | | | |

Channel margin (D1-5)



Oxpens bridge, Oxford
Baseline positive and negative scores for each sub-reach

| | | | | | | | | | | |
|----------------------|---|--|---|---|---|--|--|--|--|--|
| | | D1 - Channel margin aquatic vegetation extent | | D2 - Channel margin aquatic morphotype richness | | D3 - Channel margin physical feature extent | | D4 - Channel margin physical feature richness | | D5 - Channel margin artificial features |
| <i>Oxpens Bridge</i> | 0 | 0 | 1 | 1 | 0 | | | | | |

In-channel features (E-12)

| | | | | | | | | | | | | |
|----------------------|---|--|---|---|---|---------------------------------------|----------------------------|--|--|---|-----------------------------------|---|
| | E1 - Channel aquatic morphotype richness | E2 - Channel bed tree features richness | E3 - Channel bed hydraulic features richness | E4 - Channel bed natural features extent | E5 - Channel bed natural features richness | E6 - Channel bed material richness | E7 - Channel bed siltation | E8 - Channel bed reinforcement extent | E9 - Channel bed reinforcement severity | E10 - Channel bed artificial features severity | E11 - Channel bed NNIPS extent | E12 - Channel bed filamentous algae extent |
| <i>Oxpens Bridge</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 0 |



Appendix E Fish habitat photos and descriptions

Sub-reach Photo

Description

River Thames – Oxpens Bridge



Railway bridge narrows river channel and centres flow. Some marginal cover on LHB, concrete and sheet piled RHB provides no cover for fish. Channel depth is circa 3m.



Localised erosion on LHB just upstream of meander. Some areas of fine sediment deposition present on RHB margins. Trees and scrub present on LHB margins.



Oxpens bridge, Oxford
Fish habitat photos and descriptions



Appendix C Biodiversity Net Gain Metric 4.0

Please note, this will be supplied as a separate standalone .xls file.