

HS2 Phase 1 Central, Fusion AWE1-C2 Environmental Mitigation Works

Project Profile

Client: Fusion JV

Designer: AECOM

Date: Dec 17—Oct 18
Maintenance of sites until Nov 20

Value: £3.82m



In 2016, Fusion were awarded Area Central of HS2's enabling works contracts. Delivering essential preparatory ground works to some 100km of the phase 1 route, before the commencement of major civil engineering activities. Fusion are a joint venture group of Morgan Sindall, BAM Nuttall and Ferrovial Agroman.

Fusion divided the 100km stretch of the HS2 phase 1 central section into 4 areas, C1, C2a, C2b and C3. Typical activities within the 4 areas would include; highway design and build schemes, demolition, ground remediation, advanced landscape planting and woodland habitat creation, watercourse activities, utility diversions, design and build of new ecological sites, site clearance and establishing site compounds.

Forkers were awarded the ecological mitigation receptor sites package within the C2 area. The C2 sites are spread between Great Missenden and Brackley. The sites would be constructed offline in advance of the main works and comprise wetland, grassland and woodland habitats.

As well as provision of general habitat, the primary purpose of the sites is to accommodate translocation of Great Crested Newts and reptiles. The objective of the package is to deliver and manage matured sites ready to receive species that will be translocated from the main line works areas.

The general nature of the work activities included:

- Site clearance and access.
- Construction of environmental mitigation ponds, including placement of excavated material within site boundaries.
- Habitat creation including;
 - ◇ hibernacula
 - ◇ reptile basking banks
 - ◇ bat boxes
 - ◇ brush piles
 - ◇ Egg laying heaps
- Fencing and gates.
- Extensive planting and landscaping - hedges, trees, grassland seeding and pond planting.
- Managing maturation of the sites.



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The seven sites we completed within the C2b package are at;

- **Quinton, Doddershall and Woodlands Farm** located just north of Quinton.
- **Chetwode and Twyford Cutting** west of Calvert.
- **Oaks Farm & River Great Ouse** located off the A421 south of Brackley.

And the site completed within the C2a package is at;

- **Bury Farm** near Great Missenden

The project required continual liaison with Fusion teams at their Birmingham and Aylesbury offices as well as on site during construction works. We were also required to complete extensive pre-deliverable management plan documentation which included;

- Subcontractors Site Arrangements Plan
- Quality Management Plan and Inspection & Test Plan
- Environmental Management Plan and Soil Management Plan
- Traffic Management Plan and Logistics Management Plan
- Welfare Management Plan
- Mobilisation Management Plan
- RAMS
- Emergency Management Plan and Security Management Plan

Continual monitoring and review of the construction control documentation, as well as approvals during and after site works, was required by both Fusion and HS2 during the contract. Adherence to HS2's high standards and governance procedures and standards was required during construction works with particular emphasis on environmental reporting and security requirements.

Difficult accesses to remote sites required trackway matting and dealing with sensitive land owners and land agents. We were also involved with traffic management organisations for site access, planning and producing the traffic notices and consents with HS2, Fusion and local authorities.

As these works were some of the earliest to be carried out by HS2, there was a high profile public relations strategy which included attending local authority meetings, parish council meetings and local schools.

