| **Potential environmental risk (R)/ opportunity (O)** | **Environmental controls and monitoring/reporting requirements** |
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| **General site management**(R) Potential for environmental incident or nuisance | **Controls*****Site layout and housekeeping***The following requirements and mitigation measures will be implemented on site:* Appropriate treatment of perimeters and maintained cleanliness on site.
* Effective preventative pest and vermin control and prompt treatment of any pest and vermin infestation, including arrangements for disposing of food waste or other attractive material. If an infestation occurs action will be taken to eliminate the infestation and prevent further occurrence.
* No open fires will be permitted on site, and measures will be taken to minimise the likelihood of fires.
* No discharge of site run-off to ditches, watercourses, drains, sewers or soakaways without the agreement of the appropriate authority.
* Lighting will only be used where necessary. Where it is required, it will be at the minimum luminosity required, use low-energy consumption fittings and use motion sensors where possible, in accordance with the Code of Construction Practice [3].
* Lighting will be positioned and directed to avoid disturbance to sensitive receptors and ecological habitats [include details of any site-specific receptors]
* The use of less intrusive noise alarms that meet the safety requirements of the site, such as broadband reversing warnings, or proximity sensors to reduce the requirement for traditional reversing alarms.
* Avoidance of the use of loudspeaker or loudhailer devices.
* Containing and limiting the visual intrusion of the site.
* Smoking areas will be equipped with containers for smoking wastes – these will be located away from any sensitive receptors.
* The implementation of an [Interim Travel Plan] [4] to encourage use of public transport by project staff and control off-site parking.
* [Insert details on any restrictions on HGV movements]

***Working hours**** Site core working hours are 08:00 to 18:00 on weekdays (excluding bank holidays) and 08.00 to 13.00 on Saturdays, as stated in the Code of Construction Practice [3] and [site name Section 61 / SOI] [5].
* [Include details of any site specific working hours e.g. out of core hour working, HGV / delivery time restrictions]
* Start-up and close-down activities such as deliveries and general preparation that do not include operation of machinery may be conducted up to one hour before or after normal working hours.

**Monitoring and reporting** * Daily on and off-site inspections to be undertaken by the environmental representative and logged in a site diary to monitor compliance with the Site-Specific Environmental Management Plan.
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| **Public engagement and communication**(R) Damage to reputation with stakeholders | **Controls**In accordance with the Community Liaison Management Plan [6]:* The HS2 helpline number (**020 7944 4908**) will be displayed on site boundaries.
* ALIGN will give local stakeholders advanced notification (two weeks) or works, including major changes to site activities, new phases of work, increased HGV activity, noise, dust, and lighting etc.

**Monitoring and reporting*** HS2 operates a public helpdesk that shall be used to manage all complaints, handle enquiries and coordinate incident response as required. Details of any site investigation and subsequent actions taken in response to any complaints will be recorded by the subcontractor and passed to ALIGN for close out via the HS2 Ltd. Public Helpdesk.
* It is anticipated that any complaints will be initially received by HS2 Ltd. or ALIGN. If any complaints are received directly by the subcontractor these will be appropriately recorded by the subcontractor and reported immediately to the Site Manager.
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| **Agriculture, forestry and soils**(R) Loss, damage or degradation of topsoil and subsoil. | **Controls**Topsoil and subsoil stripping activities will be managed in line with the Area C1 Soil Resource Plan (SRP) [7] and will incorporate the following mitigation:* Vegetation will be removed prior to topsoil stripping.
* Vegetation will be cleared from areas to be used for topsoil storage, and vegetation and topsoil shall be stripped from subsoil and other materials stockpiles. It is not necessary to remove topsoil from the footprints of topsoil stockpiles but a separation layer such as straw shall be placed between the soils.
* A geotextile membrane shall also be placed across material stockpile footprints, unless otherwise agreed with ALIGN’s suitably qualified and experienced person (SQEP).
* Machinery is not to be driven or hauled over areas where topsoil and subsoil (where specified) has not first been stripped, unless required for vegetation clearance, fencing installation, access for construction or to expose subsoil surface during stripping.
* Topsoil, subsoils and made ground (as required) will be removed separately in a sequence of progressive strips, followed by storage in separate stockpiles.
* Strip depths for topsoil and upper subsoil shall be confirmed with ALIGN’s SQEP in advance of the works. [Include details if strip depths have been confirmed or add that the SSEMP will be revised to include this information once it has been determined]
* The equipment below will be used for the following tasks (the use of alternative machinery may be acceptable in certain circumstances but must be agreed with ALIGN’s SQEP in advance of any works):
* tracked excavators for stripping soils, shaping stockpiles, removing soils from stockpiles and levelling soils after reinstatement
* dump trucks for transport of soil and loose tipping into stockpiles and upon reinstatement
* subsoilers and/or cultivators to loosen receiving substrates prior to reinstatement.
* Soils will only be handled if they are in a suitably dry condition, as determined by rainfall and soil moisture criteria (refer to field tests specified in the SRP [7]).
* Stockpile slopes will not exceed 1 in 2, and stockpile heights shall not exceed 3m for topsoils and 6m for subsoils (but shall be kept as low as reasonably practicable).
* Where soil will be stored for more than six months, the stockpiles shall be seeded with a low-maintenance grass mix as soon as reasonably practicable.

**Monitoring and reporting*** Subcontractors must appoint a SQEP to oversee soil handling arrangements and someone in a supervisory role must be present on site at all times during soil handling to ensure compliance with the SRP [7].
* A watching brief will be undertaken by the subcontractor’s SQEP during all soil stripping to ensure compliance with the SRP, and to confirm soil strip depths and vary them if necessary, subject to prior agreement with ALIGN’s SQEP.
* ALIGN’s Ecological Clerks of Works (ECoWs) shall provide on-site supervision of soil handling as required, supplementary to the subcontractor’s responsibilities.
* Monthly site inspections will be undertaken by the subcontractor’s SQEP (refer to the SRP for the inspection checklist [7]).
* Records of the inspections and soil moisture tests will be kept by the subcontractor’s SQEP, and remedial measures will be taken should they be required, for instance to address unacceptable weed colonisation of stockpiles or soil erosion.
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