Project 1: Specification Agglestone Mire Restoration

Dorset Peat Partnership
As part of the Dorset Peat Partnership project the National Trust is undertaking the restoration of two sites to restore natural dynamic processes at Agglestone Mire, and Greenlands Mire, near Studland. The tender document requests quotes for both of these sites.

Agglestone Mire
The Dorset Peat Partnership has identified this site for restoration of hydrological and natural processes. The catchment area has, in places, been disconnected from the adjacent floodplain area through a combination of historic drainage, incision and entrenchment. The upper mire catchment has been partially drained into a single ditch that channels water off the mire. The drainage has reduced the floodplain connectivity and associated water table. This has disrupted the natural hydrological system of the wet heath and mire habitat making the site much drier and less capable of forming peat, and extremely vulnerable to the impacts of climate change.

The aim of the project:
To reconnect drained mire habitat and slow the flow in incised channels and ditch to raise water levels across the mire which will favour the Sphagnum carpet over Molinia and reinitiate peat formation.

The objectives are to:
- Flail the Molinia tussocks at the bottom of the upper mire to ground level.
- Block the drainage ditch by pulling in the adjacent bund.
- Install heather bale dams, and a timber dam into channels in the upper section.

This request is for flailing, the supply and installation of various types of dams as per the specification and plan overleaf. The heather bales will be supplied by the NT by the end of November. The contractor will need to supply other materials.

Conditions
- It is important that disturbance to the surface must be kept to the minimum. The underlying peat must not be damaged and impacts to sensitive habitats must be kept to a minimum. Appropriate low ground pressure machinery and bog mats will be required to safeguard the habitat from the impacts of tracking and ground disturbance during the period of operation.
- The work can commence once the contract has been awarded from the 6th November 2023 and must be completed before the end of March 2023 depending on ground conditions and the equipment available.
- Agglestone will be surveyed for Unexploded Ordnance (UXO) and this will be contracted by the National Trust.
- The work is not to be sub contracted.
- Construction line accreditation is required [Legal requirements for building contractors | National Trust]
- CDM will apply to this project.

Quotation
Please quote for each project separately for Project 1: Agglestone Mire, and Project 2: Greenlands Mire. The awarded contract will be for both pieces of work.

Project 1: Agglestone Mire (excl Vat)
Please layout your quote as follows:

1. Mobilisation, welfare, accommodation etc

2a. Flailing Molinia
2b. Supply of materials
- Section 1 - itemised
- Section 2 - itemised
- Section 3 – itemised
- Section 4 – itemised
- Total materials cost

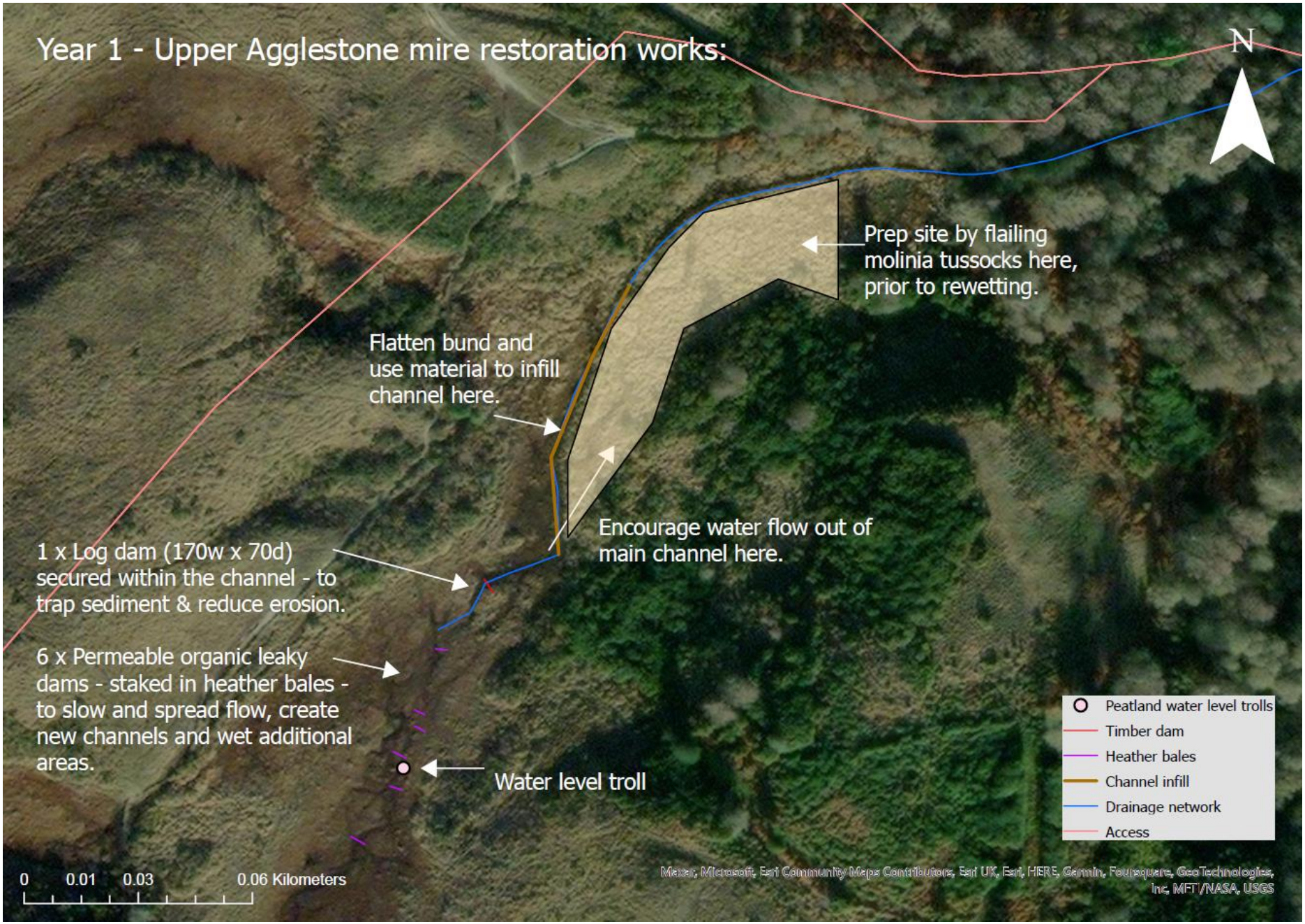
2. Labour
3. Hourly rate (for delays or any extra time incurred)
4. Daily rate (for delays or any extra time incurred)
5. Contingency

Suppliers proposal
In addition to supplying the details requested in the RFQ1 tender, section 7 please complete the information below:

Q	Type of equipment and machinery available for carrying out the tasks at Agglestone including – flailing, and infilling the ditch and the installation of various types of dams.
A	

Attached documents to NT RTP1:

1. Project 1: Agglestone Mire Restoration Plan
2. Project 2: Greenlands Mire Restoration Plan
3. Project 1: Specification Aggletone Mire
4. Project 2: Specification Greenlands Mire
5. Exchange of information – Greenlands Mire
6. Exchange of information – Agglestone Mire
7. Location, access and emergency maps
8. Environmental site rules for contractors


Year 1 - Upper Agglestone mire restoration works:
N
Prep site by flailing molinia tussocks here, prior to rewetting.
Flatten bund and use material to infill channel here.
Encourage water flow out of main channel here.
1 x Log dam (170w x 70d) secured within the channel - to trap sediment & reduce erosion.
6 x Permeable organic leaky dams - staked in heather bales - to slow and spread flow, create new channels and wet additional areas.
Water level troll
Peatland water level trolls
Timber dam
Heather bales
Channel infill
Drainage network
Access
0 0.01 0.03 0.06 Kilometers
Maxar, Microsoft, Esri Community Maps Contributors, Esri UK, Esri, HERE, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

Section	**Task** (see methodology in restoration plan)	**Grid reference**	**Bales/stakes**	**Ha/no/m**
1. Reducing the height of vegetation	• Flail Molinia tussocks (in two stages)	SZ 02668 83106 Centre point		0.3ha
2. Redistribution of flow	• Install heather bale dams with chestnut stakes. - Heather bales - 5'6" Chestnut (1/2 & 1/4 split) stakes	1. SZ 02570 82951 2. SZ 02578 82966 3. SZ 02579 82974 4. SZ 02584 82981 5. SZ 02583 82986 6. SZ 02592 83002 Contingency	12/6 9/5 9/5 15/7 12/6 12/6 6/10	45 stakes (75 bales) *
3. Addressing enhanced erosion at the superficial geology boundary	• 1 x Timber log leaky dam	SZ 02603 83018		<2m x 1.5m
4. Partial Removal of the bund/channel infill	• Remove barb wire on bund • Backfill bund into ditch c.80m • Remove any barb wire on surface after backfill	SZ 02623 83029 to SZ 02644 83097		80m

Additional information

- Measurements are estimated. The chosen contractor will need to check measurements on site.
- *NT will supply all heather bales by the end of November.
- Contractor to supply all other materials.