2 BEACH AND SAND DUNES ADJACENT TO THE FORMER BLACKDOG LANDFILL

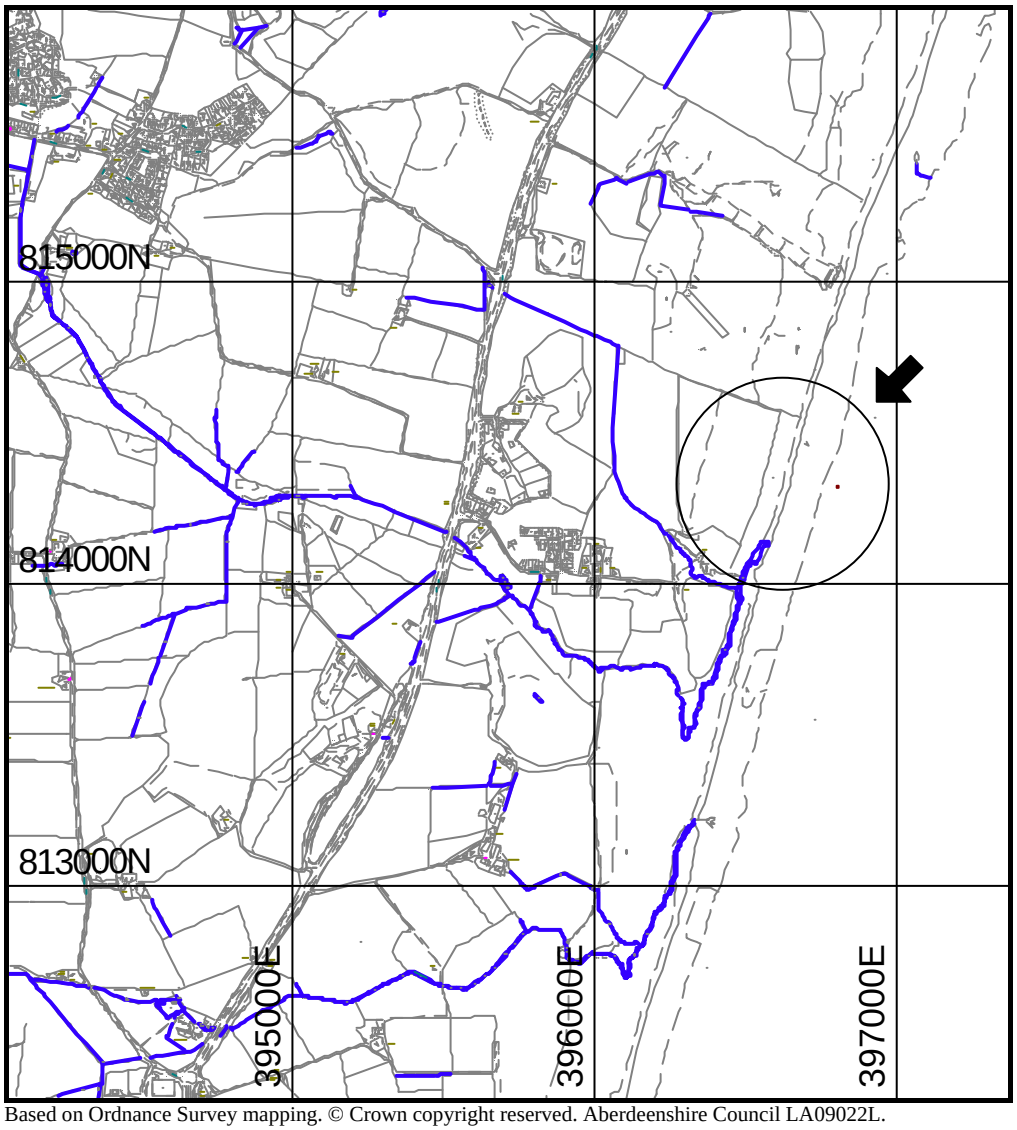
Site Address: The Beach and Sand Dunes at Blackdog
Bridge of Don
Aberdeen

Area: 3.6 ha

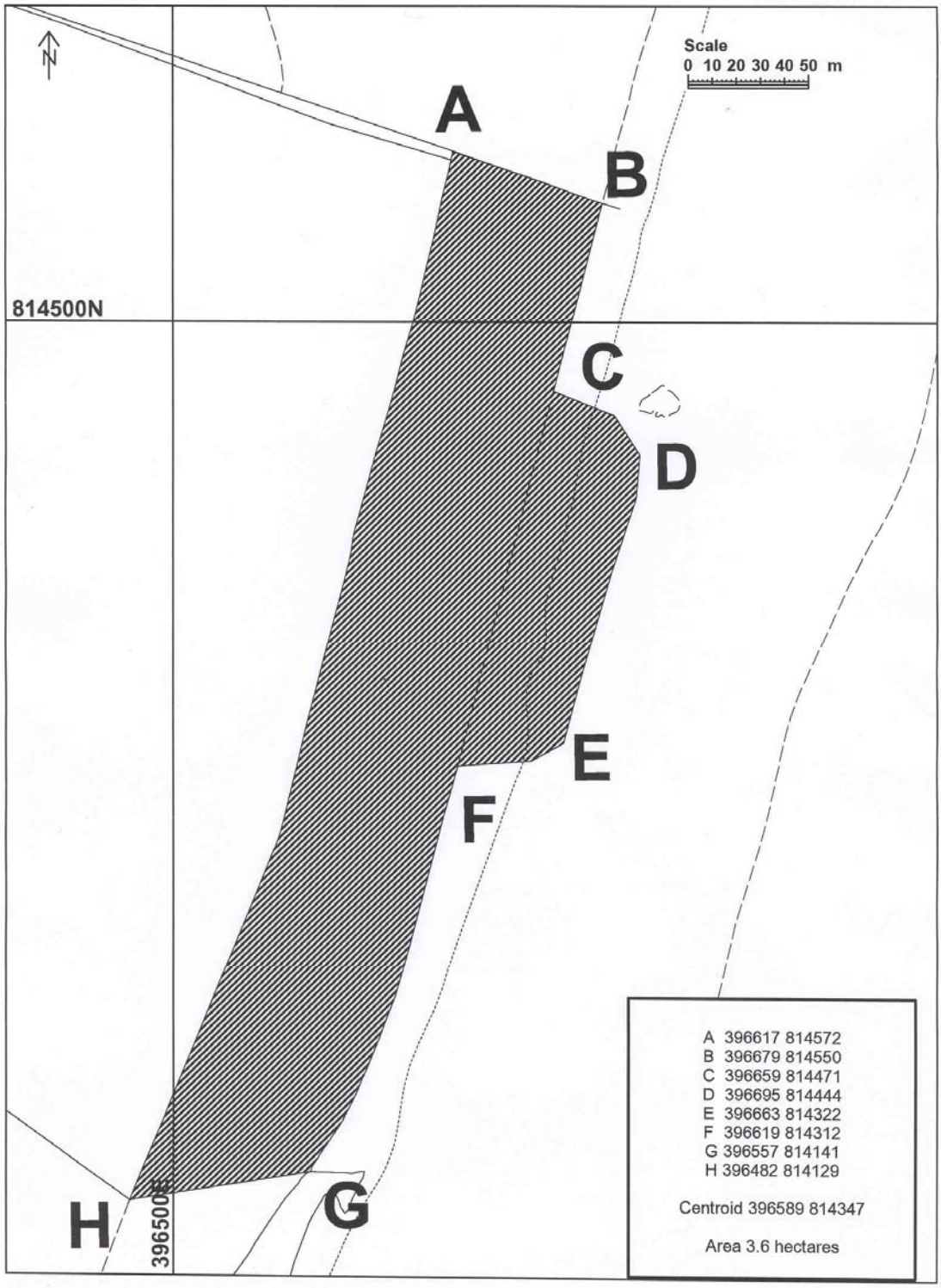
National Grid Reference: 396589 814347

Current Use: None

Site Location Map
Scale 1:25,000



Site Plan



Pollutant Linkages:

1. Desorption and solution of hydrocarbons from impacted beach sediments and solution of localised free phase hydrocarbon to *groundwater*. Lateral migration of impacted *groundwater* within the aquifer. **Pollution of controlled waters is being caused.**

2. Desorption and solution of hydrocarbons from impacted beach sediments and solution of localised free phase hydrocarbon to *coastal waters* within the intertidal sands. **Pollution of controlled waters is being caused.**

3. Episodic erosion of sand dunes by Blackdog Burn causing impacted sands to enter *surface water*. Hydrocarbons and polycyclic aromatic compounds are released to *surface water* as a thin surface film. **Pollution of controlled waters is likely to be caused.**

4. Episodic desorption of hydrocarbons from beach sediment and mobilisation of free phase hydrocarbon by wave action following erosion of clean cover from the beach. Hydrocarbons and polycyclic aromatic compounds are released to *coastal waters* as a thin surface film. **Pollution of controlled waters is likely to be caused.**

5. Lateral surface flow and migration through the unsaturated zone of hydrocarbons and polycyclic aromatic hydrocarbons present on the surface of the Blackdog Burn to impact *groundwater* within the intertidal sands. **Pollution of controlled waters is likely to be caused.**

6. Lateral surface flow and migration through the unsaturated zone of hydrocarbons and polycyclic aromatic hydrocarbons present on the surface of the Blackdog Burn to impact *coastal waters* within and on the surface of the intertidal zone. **Pollution of controlled waters is likely to be caused.**