



Photo 7: Gas Holder – series 7; quadrat 1



Photo 8: Regen – series 8, quadrat 4



Photo 9: Dune grassland – series 9; quadrat 2

APPENDIX B – SPECIES LIST

Plant species encountered during surveys are listed below by plant type and habitat in which they occurred. Records in brackets refer to species present which were not recorded in quadrats. 'NT' after a species denotes that the plant is listed as 'Near Threatened' on the IUCN GB Red List.

Table B1. Vascular plant, bryophyte and lichen species recorded from Tata Steel UK Limited (Tata Steel) Steelworks and adjacent land on 8-10 June 2022.

Species	Abundance by habitat		
	OMHoPDL	CFGM	Dune grassland
a) Trees, shrubs and woody climbers			
<i>Buddleja davidii</i> (Butterfly-bush)	(X)		
<i>Crataegus monogyna</i> (Hawthorn)	X	(X)	
<i>Hedera helix</i> s.l. (Ivy)			
<i>Hippophae rhamnoides</i> (Sea-buckthorn)	(X)		(X)
<i>Pinus nigra</i> (Black Pine)			(X)
<i>Prunus spinosa</i> (Blackthorn) seedling	X	(X)	
<i>Quercus robur</i> (Pedunculate Oak) seedling	X		
<i>Rosa canina</i> (Dog-rose)	X		
<i>Rosa spinosissima</i> (Burnet Rose)			X
<i>Rubus caesius</i> (Dewberry)	X	X	X
<i>Rubus fruticosus</i> agg. (Bramble)	X	(X)	
<i>Salix cinerea</i> ssp. <i>oleifera</i> (Rusty Willow)	(X)	(X)	X
<i>Salix repens</i> (Creeping Willow) NT	(X)		X
<i>Sambucus nigra</i> (Elder)	(X)	(X)	
b) Grasses, sedges and rushes			
<i>Aira praecox</i> (Early Hair-grass)	X		X
<i>Agrostis stolonifera</i> (Creeping Bent)	X	X	X
<i>Alopecurus pratensis</i> (Meadow Foxtail)	X	X	
<i>Anisantha madritensis</i> (Compact Brome)	X		
<i>Anisantha sterilis</i> (Barren Brome)	X		
<i>Anthoxanthum odoratum</i> (Sweet Vernal-grass)	X	X	
<i>Arrhenatherum elatius</i> (False Oat-grass)	X	X	
<i>Bromus hordeaceus</i> (Soft-brome)	X		
<i>Carex arenaria</i> (Sand Sedge)	X		X
<i>Carex flacca</i> (Glaucous Sedge)			X
<i>Carex hirta</i> (Hairy Sedge)	X	X	X
<i>Carex leporina</i> (Oval Sedge)		X	X
<i>Carex otrubae</i> (False Fox-sedge)		X	
<i>Carex nigra</i> (Common Sedge)		X	
<i>Carex riparia</i> (Greater Pond-sedge)		X	
<i>Catapodium rigidum</i> (Fern-grass)	X		
<i>Dactylis glomerata</i> (Cock's-foot)	X	X	X

Species	Abundance by habitat		
<i>Festuca ovina</i> (Sheep's-fescue)	X		X
<i>Festuca rubra</i> (Red Fescue)	X	X	X
<i>Holcus lanatus</i> (Yorkshire-fog)	X	X	X
<i>Juncus articulatus</i> (Jointed Rush)		X	
<i>Juncus effusus</i> (Soft-rush)		X	
<i>Juncus inflexus</i> (Hard Rush)		X	
<i>Lolium perenne</i> (Perennial Rye-grass)	(X)	(X)	
<i>Luzula campestris</i> (Field Wood-rush)			X
<i>Phleum arenarium</i> (Sand Cat's-tail) NT			X
<i>Phleum pratense</i> (Timothy)	X		
<i>Phragmites australis</i> (Common Reed)	X	X	
<i>Poa annua</i> (Annual Meadow-grass)			X
<i>Poa compressa</i> (Flattened Meadow-grass)	X		X
<i>Poa pratensis</i> (Smooth Meadow-grass)	X		X
<i>Poa trivialis</i> (Rough Meadow-grass)	X	X	
<i>Schedonorus arundinaceus</i> (Tall Fescue)		X	
<i>Schedonorus pratensis</i> (Meadow Fescue)		X	
<i>Trisetum flavescens</i> (Yellow Oat-grass)	X		
<i>Vulpia bromoides</i> (Squirreltail Fescue)	X		X
c) Herbaceous species			
<i>Achillea millefolium</i> (Yarrow)	X		
<i>Anacamptis pyramidalis</i> (Pyramidal Orchid)	(X)		X
<i>Anthyllis vulneraria</i> (Kidney Vetch)	X		X
<i>Arctium lappa</i> (Greater Burdock)	(X)		
<i>Arenaria serpyllifolia</i> (Thyme-leaved Sandwort)	X		X
<i>Artemisia vulgaris</i> (Mugwort)	X		
<i>Blackstonia perfoliata</i> (Yellow-wort)	X		X
<i>Calystegia sepium</i> (Hedge Bindweed)	(X)		
<i>Carduus nutans</i> (Musk Thistle)	X		
<i>Carduus tenuiflorus</i> (Slender Thistle)			X
<i>Centaurea debeauxii</i> (Chalk knapweed)	X	X	
<i>Centaureum erythraea</i> (Common Centaury)	X		X
<i>Cerastium fontanum</i> (Common Mouse-ear)	X		
<i>Cirsium arvense</i> (Creeping Thistle)		X	X
<i>Cirsium palustre</i> (Marsh Thistle)		X	
<i>Cirsium vulgare</i> (Spear Thistle)	X		
<i>Coincya monensis</i> ssp. <i>cheiranthos</i> (Wallflower Cabbage)	X		X
<i>Crepis capillaris</i> (Smooth Hawk's-beard)			X
<i>Crepis vesicaria</i> (Beaked Hawk's-beard)	X		X
<i>Daucus carota</i> (Wild Carrot)	X		
<i>Dipsacus fullonum</i> (Teasel)	X		
<i>Echium vulgare</i> (Viper's-bugloss)	X		X
<i>Epilobium hirsutum</i> (Great Willowherb)		X	
<i>Epilobium lanceolatum</i> (Spear-leaved Willowherb)		X	
<i>Erigeron</i> sp. (a Fleabane)	X		X

Species	Abundance by habitat		
<i>Erodium cicutarium</i> (Common Stork's-bill)	X		X
<i>Ervilia hirsuta</i> (Hairy Tare)	X		X
<i>Eupatorium cannabinum</i> (Hemp-agrimony)	X		
<i>Euphorbia paralias</i> (Sea Spurge)			X
<i>Euphrasia nemorosa</i> (Common Eyebright) NT	X		X
<i>Filipendula ulmaria</i> (Meadowsweet)		X	
<i>Fragaria vesca</i> (Wild Strawberry)	X		X
<i>Galium aparine</i> (Cleavers)	X	X	
<i>Galium palustre</i> (Common Marsh-bedstraw)		X	
<i>Geranium dissectum</i> (Cut-leaved Crane's-bill)	X		
<i>Geranium macrorrhizum</i> (Rock Crane's-bill)	X		
<i>Geranium molle</i> (Dove's-foot Crane's-bill)			X
<i>Geranium pyrenaicum</i> (Hedgerow Crane's-bill)	(X)		
<i>Geranium robertianum</i> (Herb-Robert)	X		
<i>Geum rivale</i> (Water Avens)		X	
<i>Geum urbanum</i> (Wood Avens)		X	
<i>Glechoma hederacea</i> (Ground-ivy)	X		
<i>Helminthotheca echioides</i> (Bristly Oxtongue)			X
<i>Heracleum sphondylium</i> (Hogweed)	X	X	
<i>Hieracium</i> sect. <i>Vulgata</i> (a Hawkweed)	X		
<i>Helminthotheca echioides</i> (Bristly Oxtongue)			X
<i>Hypericum perforatum</i> (Perforate St John's-wort)	X		
<i>Hypochaeris radicata</i> (Cat's-ear)	X		
<i>Iris pseudacorus</i> (Yellow Iris)	X	X	
<i>Jacobaea vulgaris</i> (Common Ragwort)	X		X
<i>Lathyrus pratensis</i> (Meadow Vetchling)		X	X
<i>Leucanthemum vulgare</i> (Oxeye Daisy)	X		
<i>Linaria vulgaris</i> (Common Toadflax)	X		
<i>Linum catharticum</i> (Fairy Flax)			X
<i>Lotus corniculatus</i> (Common Bird's-foot-trefoil)	X		X
<i>Lotus pedunculatus</i> (Greater Bird's-foot-trefoil)		X	
<i>Lysimachia arvensis</i> (Scarlet Pimpernel)			X
<i>Lythrum salicaria</i> (Purple-loosestrife)		X	
<i>Medicago lupulina</i> (Black Medick)	X		X
<i>Myosotis arvensis</i> (Field Forget-me-not)	X		
<i>Oenothera ×fallax</i> (Intermediate Evening-primrose)	X		X
<i>Ononis repens</i> (Common Restharrow)	X		X
<i>Orobanche minor</i> (Common Broomrape)	X		
<i>Ophrys apifera</i> (Bee Orchid)	X		X
<i>Pastinaca sativa</i> (Wild Parsnip)	X		
<i>Persicaria hydropiper</i> (Water-pepper)		X	
<i>Persicaria maculosa</i> (Redshank)		X	
<i>Picris hieracioides</i> (Hawkweed Oxtongue)	X		
<i>Pilosella officinarum</i> (Mouse-ear-hawkweed)	X		X
<i>Plantago coronopus</i> (Buck's-horn Plantain)	X		X

Species	Abundance by habitat		
<i>Plantago lanceolata</i> (Ribwort Plantain)	X		X
<i>Plantago major</i> (Greater Plantain)	X		
<i>Potentilla anserina</i> (Silverweed)		X	
<i>Potentilla erecta</i> (Tormentil)		(X)	
<i>Potentilla reptans</i> (Creeping Cinquefoil)			X
<i>Prunella vulgaris</i> (Selfheal)	X		
<i>Pulicaria dysenterica</i> (Common Fleabane)	X		
<i>Ranunculus acris</i> (Meadow Buttercup)		X	
<i>Ranunculus repens</i> (Creeping Buttercup)		X	X
<i>Reseda luteola</i> (Weld)	(X)		
<i>Rhinanthus minor</i> (Yellow-rattle)	(X)		
<i>Rumex acetosa</i> (Common Sorrel)	X	X	
<i>Rumex conglomeratus</i> (Clustered Dock)	X	X	
<i>Rumex crispus</i> (Curled Dock)	X	X	X
<i>Rumex hydrolapathum</i> (Water Dock)		(X)	
<i>Rumex obtusifolius</i> (Broad-leaved Dock)		X	
<i>Sedum acre</i> (Biting Stonecrop)	X		X
<i>Sedum album</i> (White Stonecrop)	X		
<i>Senecio inaequidens</i> (Narrow-leaved Ragwort)	X		
<i>Senecio squalidus</i> (Oxford Ragwort)	(X)		
<i>Sinapis arvensis</i> (Charlock)	X		X
<i>Solanum dulcamara</i> (Bittersweet)		X	
<i>Sonchus arvensis</i> (Perennial Sow-thistle)	X		X
<i>Sonchus asper</i> (Prickly Sow-thistle)	X		
<i>Taraxacum</i> sect. <i>Taraxacum</i> (Common Dandelion)	X		X
<i>Trifolium arvense</i> (Hare's-foot Clover)	X		X
<i>Trifolium campestre</i> (Hop Trefoil)	X		
<i>Trifolium dubium</i> (Lesser Trefoil)	X		
<i>Trifolium pratense</i> (Red Clover)			X
<i>Trifolium repens</i> (White Clover)	X		
<i>Trifolium scabrum</i> (Rough Clover)	X		
<i>Tripleurospermum inodorum</i> (Scentless Mayweed)	X		
<i>Urtica dioica</i> (Common Nettle)	X	X	
<i>Verbascum thapsus</i> (Great Mullein)	X		X
<i>Verbena officinalis</i> (Vervain)	X		
<i>Veronica arvensis</i> (Wall Speedwell)	X		X
<i>Vicia cracca</i> (Tufted Vetch)	X	X	
<i>Vicia sativa</i> (Common Vetch)	X	X	X
d) Ferns and horsetails			
<i>Equisetum arvense</i> (Field Horsetail)		X	X
<i>Equisetum palustre</i> (Marsh Horsetail)		X	
e) Bryophytes			
<i>Barbula unguiculata</i> (Bird's-claw Beard-moss)	X		
<i>Bryum c.f. caespiticum</i> (Tufted Thread-moss)	X		
<i>Calliergonella cuspidata</i> (Pointed Spear-moss)	X		

Species	Abundance by habitat		
<i>Homalothecium lutescens</i> (Golden Feather-moss)	X		X
<i>Hypnum lacunosum</i> (Great Plait-moss)	X		X
<i>Oxyrhygium speciosum</i> (Showy Feather-moss)		X	
<i>Pseudoscleropodium purum</i> (Neat Feather-moss)	X		
<i>Streblotrichum convolutum</i> (Lesser Bird's-claw Beard-moss)	X		
<i>Syntrichia ruraliformis</i> (Sand-hill Screw-moss)	X		
f) Other (e.g. lichens, stoneworts, algae)			
<i>Cladonia rangiformis</i> (a 'reindeer-moss' lichen)	X		X
<i>Peltigera</i> c.f. <i>membranacea</i> (a Dog-lichen)	X		X