## Kyleakin Fish Feed Plant Environmental Statement



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**Appendix 11.1 Target Notes** 

Appendix 11.2 Phase 1 Habitat Survey Report produced by Dr Mary Elliott

Appendix 11.3 Otter Survey Report produced by Dr Mary Elliott Noise Source Data

Document No.



## **Appendix 11.1 Target Notes**

Target and field notes for ecological features, as referenced in Chapter 11, are shown in Tables A11.1 and A11.2 (and see also Figures 11.2 and 11.3).

Table A11.1: Habitat target notes from terrestrial ecology site walkover on 20/07/16 (Figure 11.2)

TNI	X	Υ	Description	Species Recorded		
TN	^			Scientific Name	Common Name	
1	173916	826457	At edge of quarry track, on boundary between semi- natural woodland and dense scrub.	Agrostis stolonifera	Creeping bent	
				Deschampsia cespitosa	Tufted hair-grass	
				Holcus lanatus	Yorkshire-fog	
				Juncus sp.	Rush sp.	
				Myrica gale	Bog myrtle	
				Picea sp.	Spruce	
				Plantago major	Greater plantain	
				Prunella vulgaris	Selfheal	
				Ranunculus repens	Creeping buttercup	
				Salix sp.	Willow	
				Trifolium repens	White clover	
				Tussilago farfara	Colt's-foot	
				Ulex europaeus	Gorse	
2	2 173850 8	826461	Scrub edge along the quarry entrance track.	Calluna vulgaris	Common heather	
				Centaurea nigra	Common knapweed	
				Chamerion angustifolium	Rosebay willowherb	
				Erica cinerea	Bell heather	
				Euphrasia sp.	Eyebright	
			Leontodon sp.	Hawkbit		
				Luzula sylvatica	Greater woodrush	
				Picea sp.	Spruce	
				Trifolium pratense	Red clover	
				Ulex europaeus	Gorse	
3	173847	826334	Area of bare ground and	Agrostis stolonifera	Creeping bent	
			scrub with some boggy ground, neighbouring dense scrub and semi- natural woodland.	Calluna vulgaris	Common heather	
				Dactylorhiza purpurella	Northern marsh-orchid	
				Festuca rubra	Red fescue	
				Fuchsia magellanica	Fuchsia	
				Holcus lanatus	Yorkshire-fog	
				Juncus acutiflorus	Sharp flowered rush	
				Juncus articulatus	Jointed rush	
				Juncus sp.	Rush sp.	
				Luzula sp.	Woodrush	

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TNI		Υ	Description	Species Recorded		
TN	X		Description	Scientific Name	Common Name	
				Pleurozium schreberi	Red-stemmed feathermoss	
				Polytrichum commune	Common haircap moss	
				Prunella vulgaris	Selfheal	
				Salix aurita	Eared willow	
				Tussilago farfara	Colt's-foot	
4	173790	826342	Edge of the bare ground of	Bellis perennis	Daisy	
			the quarry site. Where	Calluna vulgaris	Common heather	
			river goes into culvert.  Dense scrub around river.	Juncus articulatus	Jointed rush	
				Leontodon sp.	Hawkbit	
				Matricaria discoidea	Pineappleweed	
				Plantago lanceolata	Ribwort plantain	
				Rumex acetosella	Sheep's sorrel	
				Senecio jacobaea	Ragwort	
				Stellaria sp.	Stitchwort	
			Taraxacum officinale	Dandelion		
			Trifolium pratense	Red clover		
			Trifolium repens	White clover		
				Tussilago farfara	Colt's-foot	
				Vaccinium myrtillus	Blaeberry	
5	173647	826348	East end of quarry pond. A	Carex sp.	Sedge sp.	
			few species growing in the water and soft mud.	Equisetum sp.	Horsetail	
				Juncus effusus	Soft rush	
				Juncus sp.	Rush sp.	
				Menyanthes trifoliata	Bogbean	
				Rumex sp.	Dock sp.	
				Salix aurita	Eared willow	
6	173571	826313	West end of quarry pond. Disturbed ground. Lots of self-seeded conifers to west of pond. Dense gorse along north bank.	Calluna vulgaris	Common heather	
				Equisetum sp.	Horsetail	
				Erica cinerea	Bell heather	
				Euphrasia sp.	Eyebright	
				Matrcaria discoidea	Pineappleweed	
				Mimulus guttatus	Monkey flower	
				Persicaria maculosa	Redshank	
				Polygonum aviculare	Knotgrass	
				Prunella vulgaris	Selfheal	
				Rumex obtusifolius	Broad-leaved dock	
				Senecio jacobaea	Ragwort	
				Taraxacum officionale	Dandelion	



TN	.,	Y		Species Recorded		
	X		Description	Scientific Name	Common Name	
				Trifolium repens	White clover	
7	173685	826425	Dense scrub along steep	Betula sp.	Birch	
			south side of bank. Semi- natural woodland along top and north bank. Bare ground to south of bank, currently used for storage of wood and other materials.	Leontodon sp.	Hawkbit	
				Luzula sp.	Woodrush	
				Picea sp.	Spruce	
				Prunella vulgaris	Selfheal	
				Rubus fruticosus	Bramble	
				Senecio jacobaea	Ragwort	
				Ulex europaeus	Gorse	
8	173718	826488	North bank; semi-natural	Arrhenatherum elatius	False oat-grass	
			woodland above dense	Atriplex cristata	Crested saltbush	
			scrub. Rocky shoreline with scrub growing at	Betula sp.	Birch	
			back.	Buddleja davidii	Butterfly-bush	
				Calluna vulgaris	Common heather	
				Deschampsia flexuosa	Wavy hair-grass	
				Digitalis purpurea	Foxglove	
				Erica cinerea	Bell heather	
				Euphrasia sp.	Eyebright	
				Galium sp.	Bedstraw	
				Holcus lanatus	Yorkshire-fog	
				Leontodon sp.	Hawkbit	
				Luzula sp.	Woodrush	
				Picea sp.	Spruce	
				Pleurozium schreberi	Red-stemmed feathermoss	
				Potentilla anserina	Silverweed	
				Rubus fruticosus	Bramble	
				Rumex acetosella	Sheep's sorrel	
				Sorbus aucuparia	Rowan	
				Ulex europaeus	Gorse	
9	173887	826372	Woodland on the AWI.	Betula pendula	Silver birch	
			Little variation in ground flora. Dominated by birch and fern.	Blechnum spicant	Hard fern	
				Hypericum androsaemum	Tutsan	
				Ilex aquifolium	Holly	
				Luzula sp.	Woodrush	
				Oxalis acetosa	Wood sorrel	
				Pleurozium schreberi	Red stemmed feathermoss	
				Polytrichum commune	Common hair cap moss	
				Pteridium sp.	Bracken	



TN	X	Species Recorded Y Description			
	٨		Description	Scientific Name	Common Name
				Sorbus aucuparia	Rowan
10	173972	826458	Woodland adjacent to quarry entrance track. Dominated by birch. Very boggy at top of west woodland bank	Auricularia auricula-judae	Jelly ear
				Betula sp.	Birch sp.
				Blechnum spicant	Hard fern
				Digitalis purpurea	Foxglove
				Hypericum sp.	St. John's wort
			Juncus articulatus	Jointed rush	
			Luzula sylvatica	Greater woodrush	
			Oxalis acetosa	Wood sorrel	
			Pleurozium schreberi	Red stemmed feathermoss	
				Polytrichum commune	Common haircap moss
				Pteridium sp.	Bracken
				Rhododendron sp.	Rhododendron
				Senecio jacobaea	Ragwort
				Viola sp.	Violet

Table A11.2: Protected species target notes from terrestrial ecology site walkover on 20/07/16 (Figure 11.3)

TN	Species	Field sign	Notes	X	Υ
1	Otter	Spraint	On rip-rap boulders on western side of pier. Previously recorded by Dr M. Elliott (ref no. 1).	173826	826584
2	Otter	Spraint	On rip-rap boulders on western side of pier. Previously recorded by Dr M. Elliott (ref no. 2).	173820	826574
3	Otter	Spraint	On rip-rap boulders on eastern side of pier. Previously recorded by Dr M. Elliott (ref no. 3).	173832	826581
4	Otter	Potential couch	Within rip-rap boulder bank to east of pier, beneath willow tree. Recorded by Dr M. Elliott (ref no. 4). No signs at this location on either visit, although remains of crabs and limpet shells were scattered across boulder bank.	173833	826564
5	Otter	Prints	Otter prints in soft mud at eastern end of quarry pond. Previously recorded by Dr M. Elliott (ref no. 8).	173641	826345
6	Otter	Feeding remains	Fish bones and razor shells scattered on shore.	173704	826486
7	Otter	Potential couch	On shoreline woodland edge, beneath slight overhang. Recorded by Dr M. Elliott (ref no. 6). No signs at this location on either visit.	173645	826466
8	Otter	Potential holt	On shoreline woodland edge, beneath willow bush.  Recorded by Dr M. Elliott (ref no. 7). Confirmed that tunnel does not lead anywhere, and no otter signs. Now not considered to be a holt.	173518	826410

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TN	Species	Field sign	Notes	Х	Υ
9	Otter	Sighting	Otter swimming to west of pier and on shore during survey.  Previous site visit by aquatic ecology team (14/07/16) had observed an otter swimming to the east of the pier.	173463	826403
10	Otter	Couch	Under western-most concrete slab at back of rocky shore. Recorded by Dr M. Elliott (ref no. 5). Numerous spraints of varying ages, some from within the past week.	174018	826536
11	Otter	Couch	Under eastern-most concrete slab at back of rocky shore. Recorded by Dr M. Elliott (ref no. 5). Large pile of fresh and old spraints. Well-used site.	174044	826532
12	Otter	Spraint	Intact hard spraint containing small fish bones on boulder.	174109	826568
13	Otter	Spraint	Intact hard spraint on boulder.	174121	826570
14	Otter	Spraint	Three spraints on raised bedrock, different ages.	174145	826587
15	Otter	Couch	Beneath large boulders on bedrock shore. Five distinct large piles of spraint of varying ages, some fresh. Wellworn path running south from couch up bank and into woodland.	174174	826592
16	Otter	Probable holt	In woodland strip behind shore, within dense rhododendron and other vegetation. Area smells strongly of otter, well-worn paths leading from dense vegetation to couch and to shore.	174203	826580
17	Sand martin	Burrows	First identified in surveys for the 2009 ES. Over 30 burrows on cliff side were counted from a distance. No birds were observed using the area.	172578	826144
18	Oystercatcher	Sighting	Oystercatcher family foraging on beach. At least three juvenile birds.	173779	826530
19	Ringed plover	Sighting	Juvenile ringed plover sheltering at back of shore.	173801	826530
20	Deer	Dung	Deer dung recorded in woodland.	173949	826456
21	Bird	Burrows	Four holes high up on cliff side observed from a distance.  No birds observed using this area during site visit.	173655	826264
22	Common toad	Sighting	Juvenile toads on bare ground of the quarry site.	173691	826347