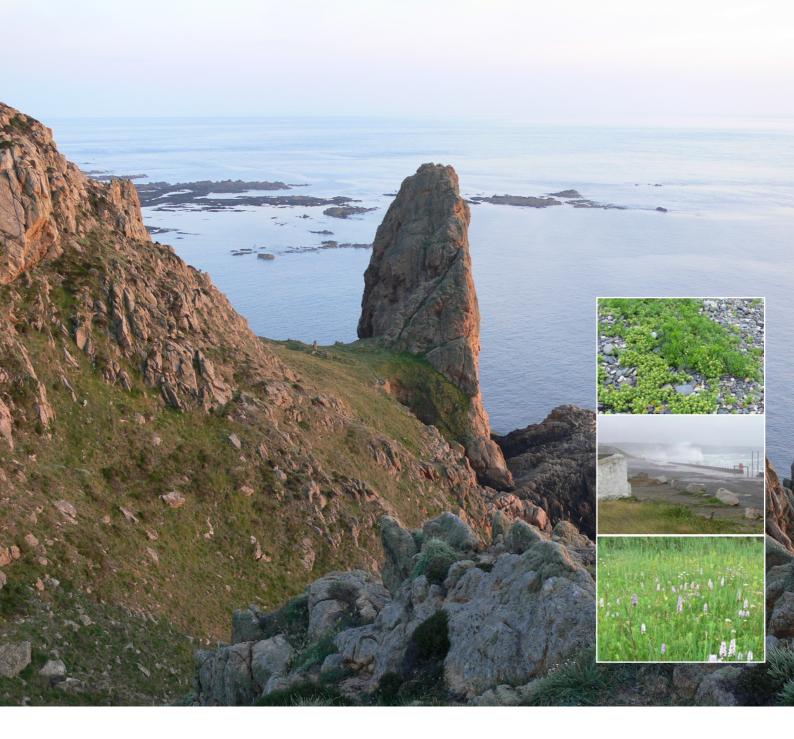
Department of the Environment—Jersey

Preparation of New Habitat Condition Monitoring Objectives

July 2013







DEPARTMENT OF THE ENVIRONMENT - JERSEY

PREPARATION OF NEW HABITAT CONDITION MONITORING OBJECTIVES

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July 2013

This report has been undertaken in accordance with PAA policies and procedures on quality assurance.

enny Anders Signed:



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1. INTRODUCTION

- 1.1 Jersey Department of the Environment has commissioned Penny Anderson Associates Ltd (PAA) to prepare new Habitat Condition Monitoring Objectives and assessment procedures for;
 - wet meadows;
 - maritime cliffs and slopes;
 - marsh and freshwater; and
 - salt marsh.
- 1.2 This report sets out the approach taken in developing these objectives and presents the rationale for, background to and the detailed Condition Monitoring Objectives for each of these habitats. Each is given a separate chapter below.



2. METHODOLOGY

- 2.1 The Habitat Condition Monitoring Objectives have been developed by:
 - understanding the type of standards required by reviewing nine other Objectives already set out by the States of Jersey DoE;
 - having a wide appreciation of the character and nature of the habitats in general and in Jersey through previous field surveys undertaken by PAA;
 - reference to the JNCC Common Standards Monitoring (2004) as guidance on the key features used for condition monitoring in the UK;
 - reference to the Agri-Environment schemes in England (Natural England 2010) where Farm Environment Plans and condition assessment of the habitats on any farm form part of the application and subsequent monitoring process;
 - an understanding of the nature conservation issues, objectives and needs in Jersey.
- 2.2 The key requirements are to generate Habitat Condition Monitoring Objectives that are relatively simple, do not require detailed specialist botanical or ecological knowledge, that can be completed by adequately trained but not necessarily specialist ecologists in the field but which balance these requirements out by being adequately robust and repeatable. They need to be able to fulfil their function of measuring condition in the field and thus provide adequate data for the DoE's reporting and site management processes.
- 2.3 The different condition assessment schemes mentioned above that are used in the UK or England are useful in providing ideas and identifying what might be key features of interest for consideration within the Jersey context. The surveys already carried out by PAA on Jersey identified key features and species within the Jersey context at the time and it is assumed that little has changed in some of these habitats since these surveys were undertaken. This information is being used in preparing these Habitat Condition Monitoring Objectives.
- 2.4 It will be necessary to try out the new Habitat Condition Monitoring Objectives on site to ensure that the features and species are still present and worthy of inclusion in the objectives.



3. WET MEADOW

Location and Approach

- 3.1 The development of site condition objectives for wet meadows has been based on the surveys carried out by PAA on various sites and then amalgamating the data for the sites that lie within the SSIs. The sites and their surveys are as follows:
 - Grouville Marsh a suite of three meadows, numbered 213, 236 and 7, surveyed 2000;
 - St Ouen's pond SSI, meadows 6, 9, 10, 11, 13, 14, 18, 19, 21 and 23 (this includes some wet meadows that are not as rich as the better ones); surveyed 1996;
 - St Peter's Valley, meadows 26a-e, 26g, a meadow between 26e and g, and 25c; surveyed 2003,
 - Rue de Près, meadows 20a, 20b/l, 20d, e & h grazed, 20d, e & h ungrazed, 20f, g & k, 20m, 20j and 20i, all surveyed in 2004;
 - Below Hamptone, meadows 19a & b, 19c and 19g, surveyed in 2004 (not SSI but of high value)
 - Trinity, site 11 in the 2003 wet meadows survey.
 - Ferny Valley, NT field north of St Helier.
- 3.2 This collection of 35 meadows includes 17 that have been assessed as of high or quite high value within the different surveys (although the earlier surveys were not evaluated in the same way as the wet meadows surveys in 2003/4), all bar one of the remainder being assessed as of medium or medium to high value. Just one on Rue de Près (meadow 20f/g/k) was regarded as of low value. The tabulation of the species found in these meadows (provided as Appendix 3.1) and their site descriptions presented in the different reports have been used to identify the desirable features, characteristic species as wet meadow desirables or undesirables and other criteria in the site condition objectives.
- 3.3 Not all the sites selected are within SSIs, although there will be some protection for the NT meadows, However, those selected are of generally high value, so they were felt to be representative of the general character of the best meadows and therefore useful for generating condition objectives. Not all the sites with the highest number of wetland species or overall high value are included within this list, there being other sites in La Vallée des Vaux, Trinity, west of St Lawrence, the NT's Ferny Valley site and the upper end of St Catherine's Valley. The site condition objectives may be suitable for these meadows as well if they were to be restored and managed for nature conservation, but they have not been examined in detail to prepare the criteria.
- 3.4 The high value wet meadows tend to be:
 - rich in plant species typical of wet meadows (i.e. there is a long list of species); there may be a wide range of additional species in each site as well, but these are often characteristic of drier ground;



- diverse in that each species is spread throughout the wet communities, not just restricted e.g. to stream edges;
- support some important Jersey specialities;
- are of medium height;
- often have diverse habitat conditions such as a small stream with water-edge species, springs or oozes thus providing greater variation in wetness, often fringed with drier ground with diverse dry ground vegetation;
- are managed by hay cutting and aftermath grazing, or just by light grazing without poaching.
- 3.5 Negative features of wet meadows are:
 - low numbers of plant species, with little overall diversity and dominance by a limited range of species;
 - tall and vigorous species often dominated by hemlock water dropwort, often with beds of nettles in drier spots;
 - invasion by bracken, Yorkshire fog or other vigorous species where unmanaged, drained and diversity lost;
 - dominated by grasses where herbicides and fertilisers have been used or grazing has been prolonged and at too high a level;
 - the presence of non-native invasive species like Japanese knotweed;
 - polluted water in the streams.
- 3.6 The number of species characteristic of wet meadows is more relevant than the total plant list, although where there are other habitats such as dry ground within the site, additional species are desirable. Twenty or more wetland species in a site would indicate good condition provided they were also spread out well and not confined to a few plants on site edges. If there are less than 10 wetland species, the site is not of high value for its wet meadow species on the whole. Work done in the Trinity meadow shows that restoration management with hay cutting and aftermath grazing can result in significant improvements in wetland species numbers on neglected and unmanaged sites, but restoration of drained or herbicided land may be more difficult.
- 3.7 Since the number of wetland species is a reflection of the character and value of the wet meadows, most emphasis has been placed on this character. If the numbers are low, and lower than they were when the fields were systematically surveyed, then changes in management can be suspected and appropriate measures taken to rectify or explore this. However, using a representative list of wetland species also requires identification. Compromises have been made by combining some species such as the jointed rushes, the wetland forget-me-nots and the amphibious bistort/water pepper (although taste is all that is needed to separate these).



- 3.8 The list that has been generated includes those species that occur most widely. Those that are found more in water rather than as a wet meadow community component have been excluded. In addition, those that occur in too few meadows or are rare in the Island have been omitted from the list to make identification less onerous. Nevertheless, some skills will be needed as wet meadows are defined by the number and diversity of the wetland species more than any other botanical feature.
- 3.9 The need for a diverse vegetation and structure is dependent on species being well represented, so species will need to be occasional to frequent rather than dominant in each field.
- 3.10 It is not possible to use most of the rarer plant species in Jersey as part of the criteria since no site supports more than three and most only one or none. It would be possible to highlight these for each site (see Table 3.1) for each survey and thus incorporate them for individual sites. The only ones that are fairly widespread are marsh pennywort and galingale which are already on the wetland species list of desirable attributes. Because of the difficulty in identifying the different wetland forget-me-nots, these have been combined as one in the list. Since the rare and special species are an important part of the wet meadows where they occur, specialist botanists should be used to check out the more difficult to identify species on a regular basis (e.g. every six years) in the sites where they occur.
- 3.11 The key features of a wet meadow are that it is a meadow and it is wet. Therefore, important characters to assess are the lack of trees/scrub that would otherwise shade out some of the wetland flora and the wetness of the ground. These have been included in the form.
- 3.12 Finally, since many of the wet areas within a meadow are limited in extent, it has been decided that the whole area should be assessed as a single unit, rather than to record separate quadrats. This would also make the task easier, but it does require a zig-zag walk through the area to find all the species listed.
- 3.13 The condition assessment form has been developed based on the principles set out above and is presented in Appendix 3.2.

Table 3.1 The wet meadow species in each meadow

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Juncus subnodulosus
Lemna minor
Lotus pedunculatus
Lycopus europaeus
Lycopus europaeus
Lythrum portula
Lythrum portula
Lythrum salicaria
Mentha aquatica
Mimulus guttatus
Molinia caerulea
Myosotis Iaxa
Myosotis Iaxa
Myosotis scorpioles
Oenanthe iachenalii
Orchis laxillora
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Lemna minor
Lotus pedunculatus
Lycopus europaeus
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Lythrum salicaria
Mentha aquatica
Mimulus gutatus
Molinia caerulea
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Lycopus europaeus
Lythrum portula
Lythrum portula
Lythrum salicaria
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Molinia caerulea
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Orchis laxillora
Parentucellia viscosa
Pepiis portula
Persicaria amphibia
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Key: Bold text

Wet Meadow Species used in the condition assessment Wet Meadow Species used in the condition assessment E= Edge H= Hedge S= Stream SE = Stream Edge W = Water Wa = On Wall NW= Near Wood Red coloured are rare or special in Jersey Grey filled are species that are amalgamated in the condition assessment list



4. MARITIME CLIFF AND SLOPE

Location and Communities

- 4.1 This is taken as the zone between the coastal grassland or other vegetation and the sea. It is a feature of the cliff edges on the rocky coasts on the north, west (Les Landes) and south coast of Jersey. The key feature of this vegetation is that it is close to salt spray influences and contains a high proportion of exposed rocks, often, in Jersey, covered in lichens. The amount of vegetation relates to the presence of rock crevices, narrow ledges and friable rock surfaces. The salt levels in the soils is high, and indeed some species like rock samphire (*Crithmum maritimum*) and rock spurrey (*Spergularia rupicola*) have been found to germinate and grow adequately only in soils of high salinity. The soil pH is consistently high independently of the rock types owing to the input of sodium ions from salt spray. The soils are usually free-draining and may suffer from summer parchment, particularly on the south coast.
- 4.2 Below this maritime cliff zone there is the lichen-rich supra-littoral zone between this and the edge of the tidal zone. Salt spray and splashing waves are more extreme in this zone than in the cliff zone where waves rarely reach. The main area of cliff vegetation is therefore where there is maximum exposure to salt spray plus suitable cliff topography. Those on Les Landes are the best developed on the Island, but shorter and more restricted cliff vegetation also occurs on the south coast on La Landes du Ouest, with some also on Portelet (eastern end, although this is quite gently sloping and rather trampled). There is very little on the north coast due to the lower salt spray exposure.
- 4.3 The main maritime cliff communities in Jersey are those in which the constant species are rock samphire, rock spurrey, red fescue (*Festuca rubra*) and thrift (*Armeria maritima*). Other species that might be present include sea lavender (the common species in Jersey is Alderney sea lavender, *Limonium normannicum*) and various ferns such as polypody (*Polypodium interjectum*), sea spleenwort and black spleenwort (*Asplenium marinum* and *A. adiantum-nigrum*).
- 4.4 Depending on where the sites are, there tends to be more scrub in the more sheltered spots in this cliff-edge vegetation on the north coast than where the full force of the wind is more prevalent.
- 4.5 Maritime cliff vegetation can be mixed with coastal grassland this occurring where there are more soils and less rock outcrops, or with scrub (also in sheltered locations).
- 4.6 There are a number of different vegetation types that can interrupt the maritime cliff, particularly along the north coast where there are deep wooded gullies, flushed areas or springs that emerge on the cliffs. These habitats have been omitted from the maritime cliffs in this assessment.

Approach

4.7 The nature and species in the maritime cliffs of Jersey have been assessed using the north coast, Les Landes and south coast surveys undertaken since 1986. However, the cliff vegetation was not always separated out clearly in the earlier surveys in particular. These have been set against the maritime rock crevice vegetation described in the National Vegetation Classification (Rodwell 2000) to understand more about its condition. In many instances, the



areas mapped as maritime cliff are based more on the morphology of the cliff than the vegetation, with neutral grassland, flushes, and other vegetation types also included at the scale of mapping undertaken. This means that there is a wide variety of grassland and some shrub plants recorded on the cliffs that are not characteristic species of the grasslands that match the NVC maritime cliff types. The site condition objectives for maritime cliff and slopes have therefore focused more on the botanical definition of maritime cliff than the physical one, and have excluded the non-cliff vegetation component. This may need to be changed if the more restricted definition is less useful on the ground.

- 4.8 An additional challenge is that much of the maritime cliff is inaccessible owing to steep slopes, so assessments will need to be done from vantage points and with binoculars. This adds an additional dimension to the need for readily recognisable criteria. It may be possible to undertake some of the assessments from the cliff bottoms at low tide provided great care is taken.
- 4.9 The criteria are set out on a recording form in Appendix 4.1.

The Condition Assessment Criteria

- 4.10 The same approach to defining the lower limit of extent has been adopted as in other Objectives, but the date of the aerial photographs has not been entered in case a more recent set are to be used. It is assumed that the patches have been mapped as this has been done for the north coast sites by PAA in 2008 but not the other habitats.
- 4.11 The level of 80% of all patches to meet the criteria has been adopted as similar to other habitat objectives. In addition, there are not many reasons why maritime cliff should not be in favourable condition except where there is excessive invasion of non-native species such as Hottentot fig, so the target is generally achievable.
- 4.12 The maritime cliff vegetation will need to be divided into patches that can be seen with binoculars or visited in part along the cliffs on each site. These will then form the patches which will be the basis of the assessment.
- 4.13 The criteria are based on the vegetation and degree of higher plant cover. It is expected, but will need to be trialled in the field, that there will be more than 50% rock exposed without higher plants on most sites. Much of this rock should be covered by lichens and perhaps some mosses as well. This is the main feature of maritime cliff habitats. The rest of the patch should then be vegetation on ledges and in crevices or small sheltered patches.
- 4.14 The next criterion then lists the main species of this rock assemblage that occurs across all or most of the sites. Maritime cliff vegetation is very limited on the Bouley Bay to Jardin d'Olivet SSI, so fewer species have been recorded there. All those species present should be forming the bulk of the vegetation and therefore occur more than rarely in the assemblage. Not all will be easy to identify using binoculars, but the fact that they have already been recorded on the sites shows that they are accessible to surveyors.
- 4.15 A few species have been separated out to provide more distinctiveness for the south or north coast sites. The list for the north coast sites shows how these are generally not maritime specialists, but favour the rock outcrops in these more sheltered areas. A more important feature of the south coast and Les Landes are the number and extent of annuals only a few are listed, and there should be many more but PAA has not recorded this detail. Hopefully, more can be added that are both distinctive and easy to recognize, possibly form a distance.



Some of these annuals also occur on sites on the north coast. Scientific names for all those species on the list are given in the following table:

English Name	Scientific Name	English Name	Scientific Name
Thrift	Armeria maritima	Sweet vernal grass	Anthoxanthum odoratum
Fine leaved fescues	<i>Festuca</i> spp	Sheep's bit	Jasione montana
Buck's horn plantain	Plantago coronopus	Sea plantain	Plantago maritima
Navelwort	Umbilicus rupestris	Rock samphire	Crithmum maritimum
Sea campion	Silene uniflora	Wild carrot	Daucus carota
Portland spurge	Euphorbia portlandica	Ox-eye daisy	Leucanthemum vulgare
English stonecrop	Sedum anglicum	Danish scurvy-grass	Cochlearia danica
Rock spurrey	Spergularia rupicola	Intermediate polypody	Polypodium interjectum
Foxglove	Digitalis purpurea	lvy	Hedera helix
Honeysuckle	Lonicera periclymenum	Bird's-foot trefoil	Lotus corniculatus
Early sand-grass	Aira praecox	Soft brome	Bromus hordeaceus
Sea fern-grass	Catapodium marinum		

4.16 There are also special species that need to be relocated, mapped and their populations assessed - in terms of e.g. five plants or 50-100 or >100 plants – so that this can be compared in the future assessments. At the moment, only sea spleenwort has been identified, but there should be other species that are not registered in PAA's surveys that could be added to this short-list.



4.17 The presence of any damaging features forms the last criterion. This would include the invasion of Hottentot fig or its relatives or any other non-native invasive species. It is the southern coast e.g. on Portelet and La Lande du Ouest where this was more widespread in the past. The criterion also tries to cover possible future damage such as cliff climbing or scrambling that could become popular and therefore pose a future threat to the cliff vegetation.



5. MARSH AND FRESHWATER

The Locations

- 5.1 There are a number of marshes, fens, swamps, ponds and reed beds in the SSI system in Jersey. These include reed beds at St. Ouen's Pond, on Rue de Prés, around Ouaisné pond, and at Grouville Marsh (where there are several reed bed patches); fen/marshes border the reed bed and the North Canal at St. Ouen's Pond, occur in several patches at Grouville Marsh, and merge into the reed bed at Ouaisné. Ponds are varied in origin, size and form. There are the ends of the canal (North and South Canal) at St. Ouen's Pond, plus another pond. There are small ponds on Les Landes (north end) plus a concrete tank that supports amphibian breeding, a very important pond on Noirmont and a small one on La Lande du Ouest. There are numerous ponds of different kinds at Grouville and the large and a very small pond at Ouaisné with inundation hollows in the dunes in wet springs so important for the agile frog. There are ditches on Grouville and Rue de Prés which are not flowing and support wetland species. Finally there are swamps of tall marsh or aquatic species that have colonised shallow water as ponds close in, or have established in shallow water in flooded areas. Swamps are mostly at Grouville.
- 5.2 There are no marshes, fens, reed beds or ponds on the north coast sites or on Portelet, nor in the wooded valleys or wet meadows, although there are streams in some of these, excluded from this set of objectives. The *Molinia* patches are excluded as a different habitat (acid bog), some of which merges into wet heath (as at Ouaisné and on Les Landes).

Approach

- 5.3 The approach has been to identify common features to all vegetation types which are based on extent, quality, soils and structure. However, as each habitat is quite different in terms of the species it supports, they have had to be separated for the rest of the criteria. In order to assess the features, all accounts and the accompanying species lists that have been produced in PAA surveys in the past have been consulted to formulate appropriate species lists and criteria. As some of these reports are now over 10 years old, the criteria will need to be checked for suitability and tweaked where necessary.
- 5.4 The Objectives are set out in Appendix 5.3.

The Common Features

- 5.5 It is recommended that each patch is assessed independently and as a whole since many are small and sometimes access is difficult (into dense reed beds for example). This avoids the need for additional stopping points, but will necessitate a W walk as far as possible and that is safe to assess the overall features across the patch.
- 5.6 The general aim will be to maintain the extent and range of wetland habitats that this HMO covers. They may warrant improvement in places where grazing is too high or low, or where there is eutrophication of the water (St Ouen's Pond). However, any expansion of the habitats should not be at the expense of high value habitats like wet meadows or other wet habitats. In addition, it needs to be borne in mind that ponds and swamps can progress through natural succession and fill in or dry out. Species and habitat can therefore be lost through natural



causes and decisions will be needed on whether to create new ponds to replace them or to restore to an earlier stage in succession.

- 5.7 The quality lower limit is predicated on the assumption that all the wetlands covered by this set of criteria are in good condition and that little restoration will be needed. There are patches in Grouville at least where grazing is too high and poaching/short vegetation are negative features, but most other sites are in good condition. The general aim of the quality criteria is therefore to maintain the features already present.
- 5.8 The key feature of all non-freshwater habitats is for soft, wet soils. Therefore a criterion has been provided which tests this with a 6" nail (or equivalent) and by oozing mud/water under the surveyor's boots. This should be present at all times, but may be less or drier than desirable in prolonged drought conditions.
- 5.9 Freshwater sites should be maintaining their normal water levels. There could be some natural variation throughout the year, but this should be visible from the signs water levels leave around the edges. The aim is to detect when water levels are abnormally low or high where some management might be needed.
- 5.10 It is also vital that freshwater is clean so any signs of pollution such as sewage or other discharges are important to detect. Water covered with algal mats (*Enteromorpha* often) is usually regarded as a good indicator of eutrophication, although the source might be diffuse and not easily located (such as drainage from agricultural land in the catchment as around St. Ouen's Pond).
- 5.11 Since wet woodland is not the habitat target in these habitat types, a small cover of scrub or trees (most likely to be willows) is tolerated, but more extensive amounts or obvious invasion would be detrimental.
- 5.12 The next criterion relates to grazing pressure. The demand for 80% flowering and seeding of species is to avoid high grazing pressures. This may be too high a level, but would need to be trialled in some of the grazed marshes at Grouville or Rue de Près to test this. A lower level may be acceptable and still retain the species diversity.
- 5.13 As for other habitats, it is important that each wetland type consists predominantly of native species. There are not many invasive non-native species in the wetland habitats, so this criterion should be easily met and could be increased to 95% if warranted.
- 5.14 The last of the generic criteria is that no one or two species should be dominant, except in swamps and reed beds. These are both often species-poor, tall and dense, so are exempt from this criterion.
- 5.15 The presence of damaging features ties in with management needs and provides an alert to any problems. If marshes become dominated by grasses, this suggests overgrazing, so is another indicator of this. The criterion on invasive non-native species allows identification of where and which species so that management can focus on these areas. Other damage such as unauthorised vehicle ruts/damage, dumping of materials of any kind or any other types of negative activities can also be identified here.
- 5.16 The second page of the criteria provides species lists for each of the main habitat types. This has been produced by sifting through the species found in each habitat and attempting to classify them into a limited range of types. Reed beds are quite distinctive, dense, tall, with few



species, so these features are the key ones to note. The few species that might be found in the reed bed are listed and are similar for different locations.

- 5.17 The swamps tend also to be tall, sit in shallow water in ponds or marshy places and are usually dominated by tall wetland herbs. Again the main species that are relatively easy to identify are listed. The main sites are on Grouville.
- 5.18 The marsh/fen list is long, but covers a range of vegetation types from rush-dominated to more diverse communities. By amalgamating rushes, this removes some of the key features of different sites (but see below re. distinctiveness). The key for the marshes is for a good mixture of species. Some of these like the marsh pennywort are also Jersey BAP species so are important within the list. The first survey will need to set the baseline by marking all the species or groups of species listed, but add their relative abundance using the Dafor scale. This can then be compared with later visits, but these need to be undertaken at similar times of year. Mid summer would be an ideal time when most species are in flower or seed.
- 5.19 The aquatic list is much shorter, there being fewer species found in the water. White water lily occurs in several sites but has been planted, but does not seem to be invasive. This therefore need not be considered as an invasive species unless there is evidence to the contrary. It does provide good habitat structure for invertebrates provided it is not dominant. Only a more limited number of plants in each pond is required as most ponds support few species. Again, by listing the species in the baseline surveys, the future assessments can compare with the earlier records.
- 5.20 If there are better botanists available occasionally, there are distinctive species that are very important in different habitats (see table below). More recent records may need to be gathered for some of these as they may have been lost to natural succession or for other reasons since PAA recorded them:

English Name	Scientific Name	Location
Great water dock	Rumex hydrolapathum	Ouaisné small pond, Grouville
Jersey water forget-me-not	Myosotis secula	Noirmont pond
Cyprus sedge	Carex pseudocyperus	Grouville and St Ouen's Pond fen
Lesser reedmace	Typha angustifolia	Small pond N. end Les Landes
Sweet flag	Acorus calamus	Noirmont – only site on Jersey, planted but not invasive

Table 5.1 Distinctive species which are very important in different habitats



English Name	Scientific Name	Location
Horned pondweed	Zannichellia palustris	Seasonal ponds Ouaisné
Alternate leaved water milfoil	Myriophyllum alternifolium	Noirmont pond
Blunt flowered rush	Juncus subnodulosus	Fen round edge of reed bed, St Ouen's pond



6. SALT MARSH AND STRANDLINE COMMUNITIES

Location

- 6.1 The only area of salt marsh vegetation within protected or potentially protected sites in Jersey lies on the St. Ouen's Bay fringing sand dunes where sea water splashes over the sea wall at high tide. The salt marsh lies, therefore, on top of the sand dunes and has replaced dune vegetation over time as the effect of salt spray has accumulated after the sea walls were constructed. These areas are closely associated often with strandline vegetation.
- 6.2 Salt marsh vegetation communities can be divided in general into the lower, middle and upper zones, each characterised by different vegetation components, sediment and erosion/accretion features (Rodwell 2000). In St Ouen's Bay, the salt-splash communities share some features of the lower and middle salt marsh zones. Patches dominated by sea purslane (*Atriplex portulacoides*) are a feature of one of the lower salt marsh communities also found around south and eastern England, while sea lavender (*Limonium* spp) and sea thrift (*Armeria maritima*) are more characteristic of middle salt marsh communities (Rodwell 2000). These features help to identify the key species in the vegetation in St. Ouen's Bay.
- 6.3 The strandline vegetation is very characteristic of that found elsewhere in the British Isles, although with largely southern species rather than northern ones. The assemblages are dominated by largely ephemeral, nitrophilous herbs and make a brief and often fragmentary appearance where shingle, sand and organic debris has been dumped along the strandline. In Jersey along St Ouen's Bay, the organic debris tends to be seaweed thrown up in the highest tides onto the coastal sand dunes along with shingle and shells. The strandline vegetation also occurs at the bottom of the sea wall where the sea rarely overtops it e.g. at the northern end of the Bay.
- 6.4 Figures 6.1 and 6.2 show the location, shape and size of the salt marsh and strandline patches in different sections along the St. Ouen's Bay coastline as surveyed in 2007. The following table shows where these are located.

Vegetation types	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Totals
M salt marsh					+		+	+			+	+	+		+	+	+	+		10
N strandline		+	+		+	+	+	+	+	+		+	+	+	+		+	+	+	15

Table 6.1 The distribution of the vegetation communities in the different sections

Plant Community Descriptions and Distribution

M: 'Saltmarsh' Splash Zone

6.5 The account and the figures are taken from the report on the coastal dunes undertaken by PAA in 2007.



- 6.6 Due to the barrier provided by the sea wall, high tides, especially when combined with a strong westerly wind, result in waves spraying over the top of the wall in the central section of the site. This results in salty water sprayed onto and washing through as it drains away several areas. In the highest and strongest tides, dead seaweeds and stones/shells are also deposited onto the dunes close to the wall in the central section of the site. As the wave action here is contained by the wall, there is no significant erosion of the sediment. This allows a stable substrate to persist on which the salt marsh/splash zone community has formed.
- 6.7 This community is characterised by relatively compact, sandy sediments within this splash zone, where the ground is regularly soaked with salt-spray and salt concentrations are therefore likely to be higher, often mixed with the pebbles and shells that have also been thrown over the wall. The characteristic species for this community, predominately curved sea hard-grass (*Parapholis incurva*) and Alderney sea-lavender (*Limonium normannicum*), are more usually found where a silty or muddy substrate and a gentler inundation of sea water create more stable conditions than those in a typical sand dune system.
- 6.8 In some areas, the wall is higher than the dune immediately landward and appears to facilitate further retention of sea water and sediment, thus creating a thin strip of salt marsh habitat. Indeed, the rare (in GB) salt marsh species, curved hard-grass (*Parapholis incurva*) is very often found against the sea wall in this way, such as in the south-western corner of patch 5.
- 6.9 The community is frequently found adjacent to the sea wall or on areas of compact and relatively stable and sheltered sand at dune edges, next to buildings and amongst pebbly areas. It is likely these features provide some protection, trapping water, sand and sediment and thereby allowing the more stable habitat to persist.
- 6.10 The invasive succulents, Hottentot-fig (*Carpobrotus edulis*) and dew-plant (*Disphyma crassifolium*) are found in many patches where salt marsh-like conditions occur. Dew-plant particularly, grows wild in salt-marshes in South Africa, where it originates, and so is catered for well in this situation.
- 6.11 Occurring in 10 sections and covering approximately 5% of the St Ouen's Bay fringing dunes, this community is often found in a strip close to the sea wall or to the seaward side of any marram or grassland. In section 11 the vegetation penetrates further inland towards the St Ouen's Pond overflow where it is also separated from the sea by a section of rank grassland. The community is at its greatest expanse in the adjacent section 12, but does not occur in sections 1-4 where the high tide does not overtop the wall.

N: Strandline

- 6.12 This community appears both above and below the sea wall where inundation with sea water is regular and sand is thrown up from the beach, producing an unstable environment due to movement by wind. This creates a high level of disturbance with an unstable substrate of either bare sand or shingle/pebbles with windblown sand. Characteristic species include rock samphire (*Crithmum maritimum*), sea rocket (*Cakile maritima*), prickly saltwort (*Salsola kali*), sea sandwort (*Honckenya peploides*) and sand couch (*Elytrigia juncea*). Good examples of limited areas of this vegetation are below the sea wall in area 1(although this is not mapped), the northern triangular area.
- 6.13 Numbers of yellow horned-poppy (*Glaucium flavum*) are decreasing across Jersey due to pressure from human use of the habitat (Le Sueur, 1984). The species occurred in six of the sections of this survey area usually on more shingly areas of the strandline community, for



example, in section 9, where an area of shingle adjoins a trampled, species rich community. Individual plants were often found in areas protected from trampling such as adjacent to the sea wall in section 5 and against a concrete slab in section 9.

6.14 Further inland, where inundation and disturbance by salty water are reduced, this community tends to give way to open marram vegetation, where the substrate is mainly loose sand or a trampled species-rich community.

Community	Patches	Hectares	% of total
M: Saltmarsh 'Splash zone'	22	1.762542	5.25
N: Strandline	19	1.390059	4.14
Totals	41	3.152601	9.40

Table 6.2 Data for M and N Splash zone and Strandline type communities

6.15 In terms of site-wide conditions, the dunes exhibit an increasing and then reduced effect of salt spray moving towards the centre of the coastal strip and then south again. This is due to the shape of the seawall, and where the tide pounds against it, which is greater in the centre of the site than at the outer ends. The distribution of salt marsh and strandline communities generally increases in the central area, particularly sections 8 to 15, except for where car parking or other hard-standing has restricted vegetation.

Significant Species

Rare Plants

- 6.16 A number of the species associated with the salt marsh or strandline are rare or scarce within the UK or Jersey context as shown below in Table 6.3. The shore-front salt marsh and strandline communities of St Ouen's Bay are a stronghold for a number of rarities on Jersey. Sea rocket (*Cakile maritima*) is scattered widely around Jersey's coastline but only occurs in small numbers in all but two sites, one of which being this stretch of St Ouen's Bay (Le Sueur, 1984). However, the majority of these rare species were found spread throughout the communities on site; for example, Alderney sea-lavender (*Limonium normannicum*) in the Mtype salt marsh community. Yellow horned poppy and sea rocket are strandline species that do not occur on more stable dunes away from the influence of the sea.
- 6.17 A number of species are known to grow in the sea front dune system but were not recorded during the 2007 survey. Margaret Long, local botanical expert and member of Société Jersiaise suggested a number of such records.
- 6.18 The more easily recognizable of these species have been selected for inclusion on the recording form to reflect their importance. Specialist botanists will need to be deployed to search for the less easily identified ones such as *Spartina*, perhaps once every six years, and possibly to train the surveyors to identify some of the other species.



Table 6.3 Rare and scarce plant species recorded in salt marsh and strandline communities

Scientific Name	English Name	RDB*	Scarce in GB**	Jersey Rarity***	Notes	Total nos sections in which it occurs
Cakile maritima	Sea rocket			+	Population falling across Jersey	5
Euphorbia portlandica	Portland spurge		+			18
Glaucium flavum	Yellow-horned poppy			+		6
Inula crithmoides	Golden samphire		+		ML	6
Limonium normannicum	Alderney sea- lavender			+	Not in GB	10
Parapholis incurva	Curved hard- grass		+			10
Spartina anglica	Common cord- grass			+	Was extinct in Jersey. Recorded in a previous survey of the site.	1
* Near threatened, vulr Britain (JNCC 2005). F						
** From Scarce Plants	in Britain (Stewart, A	. <i>et al</i> 19	994)			
*** Recorded as rare o	r of limited distributio	n and de	eclining in .	lersey Flora	a (Le Sueur 1984)	
ML record provided by	Margaret Long					
+ Species included as	a protected plant und	der the C	Conservatio	n of Wildlife	e (Jersey) Law, 2000	

Nature Conservation Objectives for Salt Marsh Communities

6.19 There is a significant area of salt spray/splash zone vegetation on the coastal dunes; a community which does not occur anywhere else in the Island and which supports rare species like the curved hard-grass and common cord-grass. The key objectives are therefore to



maintain the area of salt marsh vegetation and its plant diversity as well as maintain the populations of the rare species.

6.20 It is possible that the patches of salt marsh could expand over time or move within the coastal dunes as a result of climate change which could result in fiercer gales and higher water levels. Provided any expansion does not displace dune vegetation of equal importance, then this should not be detrimental to nature conservation interests. If it does, there will be little that can be done to change the incidence of salt spray and sea pools at high tide, but consideration may need to be given to restoring more coastal dune vegetation to compensate for losses.

Nature Conservation Objectives for Strandline Communities

- 6.21 There is a significant area of strandline vegetation on the coastal dunes, mostly at the edge of the sea wall or below it; a community which supports rare species like the sea kale and yellow horned poppy. The key objectives are therefore to maintain the area of strandline vegetation and its plant diversity as well as maintain the populations of the rare species.
- 6.22 It is possible that the patches of strandline vegetation could move or change in size over time as a result of climate change which could result in fiercer gales and higher water levels. Provided any expansion does not displace dune or salt marsh vegetation of equal importance, then this should not be detrimental to nature conservation interests. If it does, there will be little that can be done to change the incidence of salt spray and sea pools at high tide, but consideration may need to be given again to restoring more coastal dune vegetation to compensate for losses.

Management Issues

6.23 There are some key management issues affecting the salt marsh and strandline vegetation which needs to form part of the Habitat Condition Monitoring Objectives. These focus on invasion of non native species, but it is only the succulents in the Aizoaceae family that seem to be invading and in need of control.

The Aizoaceae Family

- 6.24 The fleshy-leaved succulent members of the Aizoaceae, Hottentot-fig (*Carpobrotus edulis*) and dew-plant (*Disphyma crassifolium*), occur regularly across the area. The species prefer sunny positions on poor, sandy sediment and tolerate a good degree of salty spray. Growth is in dense carpets a metre to several metres wide which smothers, and so kills other plants. Both species originate from South Africa but have adapted well to conditions on Jersey, forming carpets of thick vegetation in a variety of habitats.
- 6.25 The species are easily spread, particularly by gulls collecting leaves for nesting material which then take root (Le Sueur, 1984). As such these species present a clear threat to the unique and valuable vegetation of the dune front areas in St Ouen's Bay, as well as at other sites on the island.
- 6.26 A hard frost can kill off large areas of the succulents but very often this dead foliage is merely a surface layer of the plant, which in places can be a foot deep. The parts of the plant which survive will shoot and grow back very effectively, building up further layers of litter. Dew-plant in particular has been observed to survive all but the most severe frosts. Frosts of this severity have not occurred in Jersey for some time and cannot be relied upon as a method of control.



Further measures are needed to control the spread of these invasives. This will involve volunteer time, and careful removal of all parts of plants by hand, or using small scale machines where appropriate, with careful disposal of the collected material to avoid further colonisation elsewhere. Such effort will need to be repeated in order to maintain control over a period of years.

Grazing Management

6.27 If grazing were to be introduced more widely on the frontal dunes in St Ouen's Bay (as has been suggested), then its effect on the salt marsh and strandline communities will need to be monitored. This is also added to the recording sheet. Some species are known to be sensitive to grazing such as sea lavender and sea purslane (JNCC 2008), so their abundance could be affected if grazing by stock were introduced and be too heavy.

Trampling Pressure

6.28 Similarly, salt marsh and strandline vegetation can be affected by trampling by people accessing the coast or using the St Ouen's Bay fringing vegetation. At the time of survey, most use was restricted to the edge above the sea wall, the clearly visible tracks and car parks and trampling damage was limited. Nevertheless, any increase in the sensitive habitats would need to be monitored.

Recording form for Salt Marsh Vegetation

- 6.29 This document is presented as Appendix 6.1, but the decisions made are justified or explained below. It is expected that each patch (there are 22) would be assessed separately to avoid the need for any quadrats in what are very differently sized patches. Most are small enough to be seen quickly and easily from one or two points. A recording sheet with all 22 patches and each criteria will need to be created, with each patch numbered sequentially. The survey should be conducted in late May June (July) to catch the flowering/seeding period of many of the plants.
- 6.30 The area should remain the same or expand the lower limit should retain all that is present currently, but any increase should not be at the expense of good quality sand dune habitats as explained above.
- 6.31 The need for 19 out of 22 patches (including the two largest patches) to be in favourable condition for the whole resource to pass is fairly arbitrary, but based on the 75-90% requirement in the other Condition Protocols prepared by the DoE already. It allows for some invasion of non native plants (the most likely cause of unfavourable condition), but not in the larger patches which form the major part of the resource.
- 6.32 The height of the vegetation is based on photographs and memory and may need to be checked in the field. The principal is to avoid tall invasive, vigorous plants like coarse grasses and radish. The salt marsh strips are characteristically sparsely vegetated with some bare ground, but not as much as on the strandline assemblages. The bare soil/shingle criterion is set to note this, but to ensure this is natural and not owing to dumping etc by human activity.
- 6.33 The species listed are those that are most abundant in the salt marsh patches, but do not include some of the rarities like the cord-grass. Grasses are kept to a minimum, to make identification more straight forward, and the three selected are very distinctive. These will need



to be surveyed in May-June to see their flowering spikes. For clarity the scientific names are provided for the species on the recording sheet in Table 6.4.

6.34 Frequent is identified as regularly occurring across a patch, or locally frequent in part of a site, whilst abundant refers to cover of not more than 50% in any patch, but a greater amount altogether than for frequent.

Species that shou abun		Species that sh	ould be present
English	Latin	English	Latin
Alderney sea lavender	Limonium normannicum	Rock Samphire	Crithmum maritimum
Buck's - horn plantain	Plantago coronopus	Sea bindweed	Calystegia soldanella
Thrift	Armeria maritima	Danish scurvy-grass	Cochlearia danica
Sea-purslane	Atriplex portulacoides	Sea holly	Eryngium maritimum
Curved sea hard- grass	Parapholis incurva	Sea beet	Beta vulgaris ssp maritima
Sea sandwort	Honckenya peploides	Sea fern-grass	Catapodium marinum
		Sea couch	Elytrigia atherica
		Portland spurge	Euphorbia portlandica

Table 6.4 The species used for the monitoring sheet

6.35 The damaging features relate to the invasion of ice plants of various kinds – this should include *Carpobrotus* as well as *Disphyma* spp or any other similar invasives. The criterion has been set high for no invasives (although this could be in three patches for favourable condition to be achieved), but this may be considered too high as controlling these species is going to be difficult. If so, the criteria could be changed to no more than 10% cover of these invasives, but the level of cover should then be noted too so that the need for control can be identified. This



section may need to be expanded in the future if other species are found. The possibility of damage by other factors is also included in this section.

Recording form for Strandline Vegetation

- 6.36 The lower limits are similar to those for salt marsh vegetation. In this case, 18 of the 20 patches are taken to need to be in favourable condition for the habitat to pass. This may be regarded as too high, and could be changed after consideration after the first assessment is undertaken.
- 6.37 As for salt marsh, the vegetation height category relates to the need for short, open vegetation, but some of the species like the horned poppy and sea kale are taller than 30cms, and have been accommodated by reducing the percentage cover needed. This needs to be tested in the field as the 30cms set may too short.
- 6.38 For the strandline vegetation, the amount of bare ground is greater than for salt marsh, and again the 40-50% given will need to be tested and refined if this proves to be inaccurate. As for the salt marsh, the criteria are divided between the key species that should be present in each patch and those that should be present but are less abundant in general. Three species have been highlighted as of particular importance since they are Jersey specialities and populations of the two that tend to occur as individual plants are included. The overall populations should not decline, although their distribution is likely to change from year to year.
- 6.39 The same damaging features are included here as for the salt marsh vegetation and the same comments apply. The % level for affected plants by grazing is based on acceptable levels of stock grazing on heather on heathland as there are no equivalent threshold available for this habitat type and heather is considered to have an equivalent sensitivity to grazing based on its structure and character.



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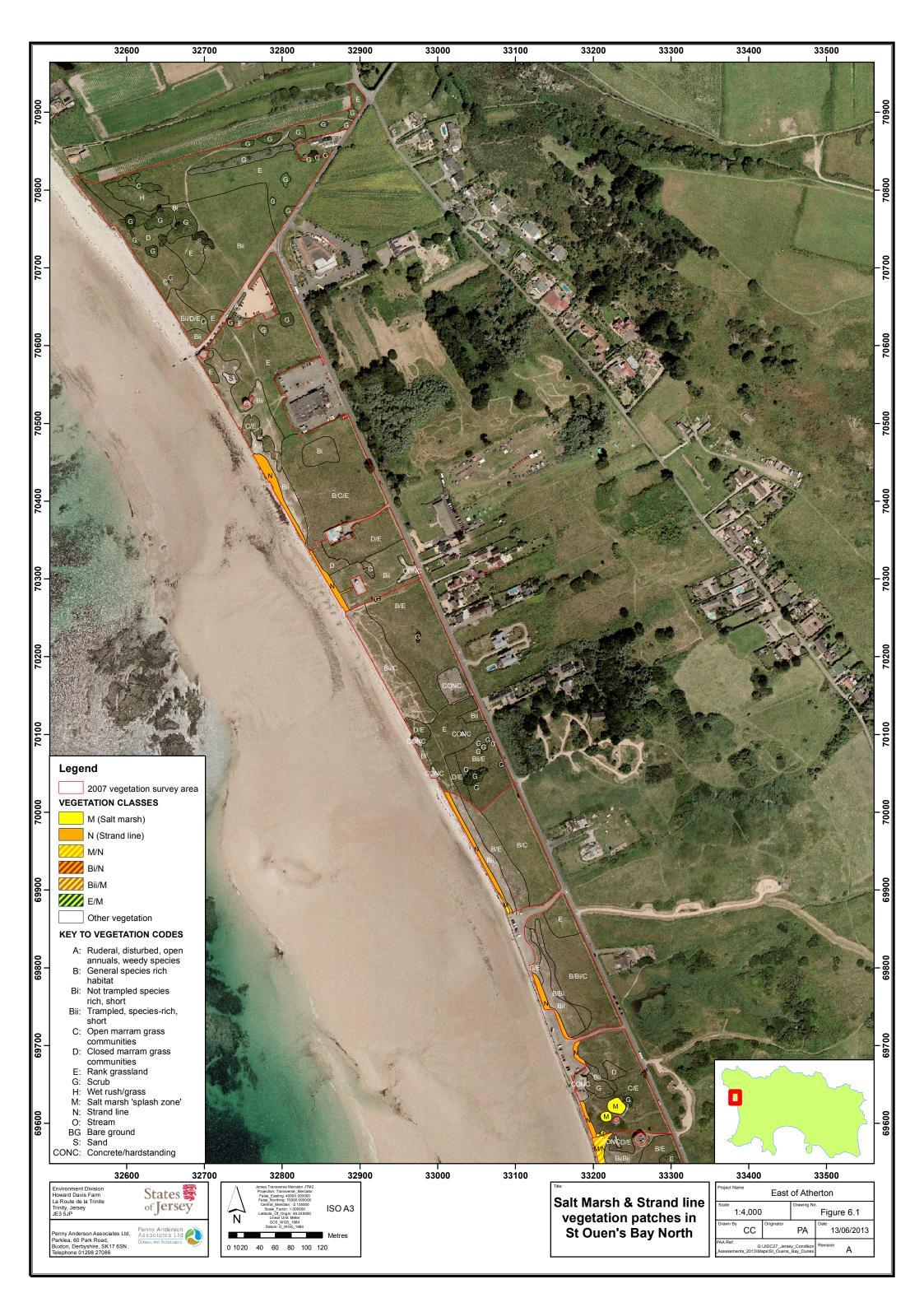
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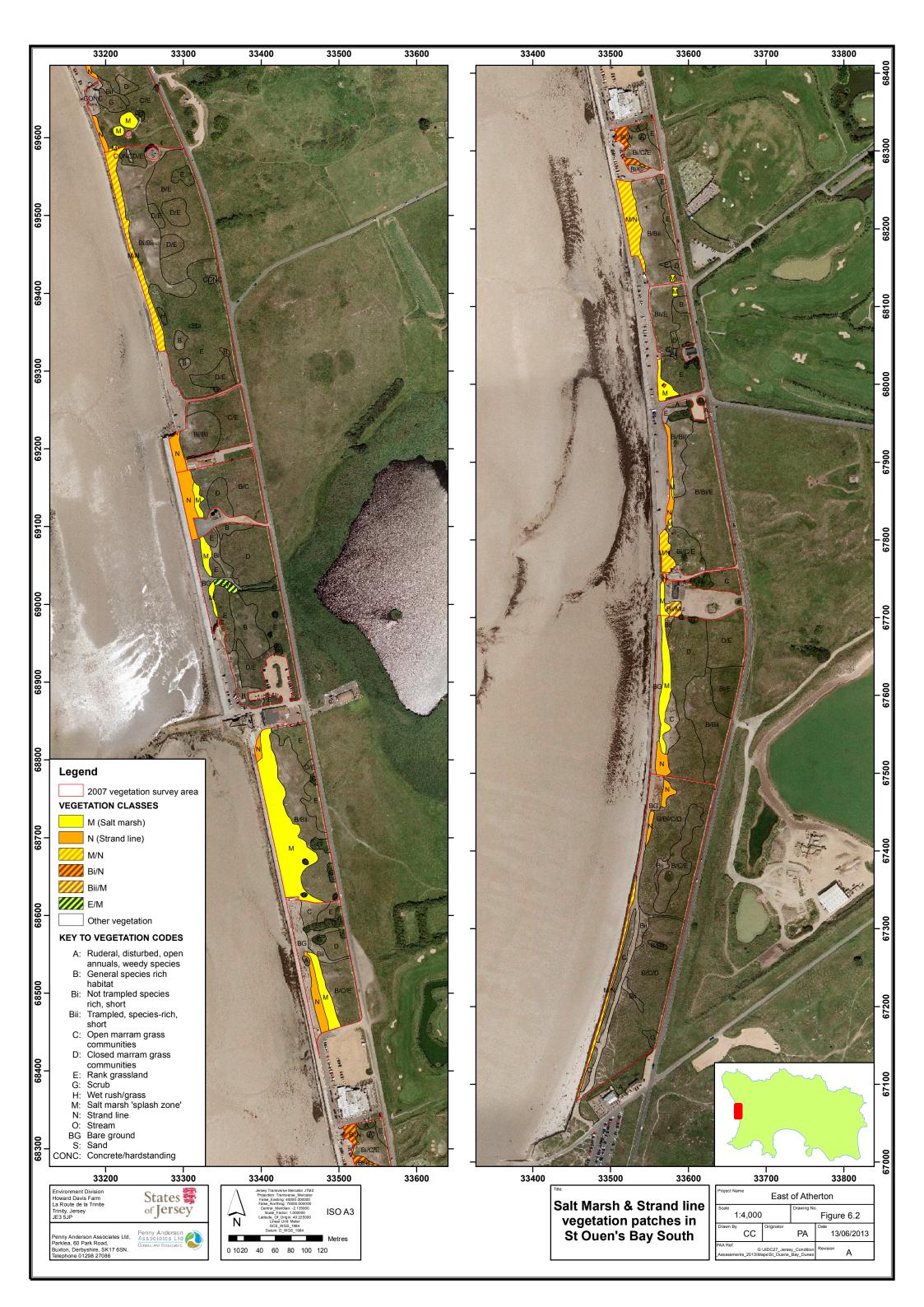
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FIGURES





APPENDICES

Appendix 3.1 The Species in the Wet Meadows

Appendix 3.1 The Species in th	e wet meadows	Gr	rouville. 2	2000				St	t Ouen's	Pond S	<u>S</u> I							St Pete	er's Valle	<u>sň</u>					Rue	de Pres				Belo	w Hamp	otone	ile.	, A	*
Scientific name	Common name	213	236	7	6	9	10	11	13	14	18	19	21	23	26d	26c	26b	26a	26e	26 between e&g	26g	25c	20a	20b& I	20d,e&h	20f,g&k	20m	20j	20i	19 a&b	19c	19g		T.M.	L.
	Acer species Sycamore	ſ	оH												0	оH	r S		lr			r E								0	f	r f	9	*	=
Achillea millefolium	Yarrow Fragrant agrimony	lo E		lf E	0					r			lo	0	0	011	13													lr	0		<u> </u>	lf r	—
Agrostis canina	Velvet bent Common bent	lo E	—	lo E		f	lf		lo If	0	la	f f-a		lo r/a			r-o S		lf		lf		0										—	lf	1
Agrostis stolonifera	Creeping bent Water plantain	a Io	аE			f		а	а	f	f	lf		а	lo	f f	r-o S	а	f Io	а	а		0	a Ir	f-o	f-a		0	f	f	f	f	а	0	f
	Italian Alder Alder	r	\square	οE											r				r	lo	r			o-lf			0	o-f						\square	
Alopecurus pratensis	Marsh foxtail Meadow foxtail	а	a-f E							0				r					lo	f	r		0	lf	lf						r				
Anagallis tenella	Scarlet pimpernel Bog Pimpernel		\perp	lr E				r		0				r Io	r																				F
Anisantha sterilis	Wild angelica Barren brome Sweet vernal-grass		οE lf-fE				o-lf	r		f	0	a		lo 0	r						r		0	0	f					lf r	r f	0	0	o-lf	lf o
Anthriscus caucalis	Bur parsley Fool's water-cress	0					f	f		-	0	a lo		r If		r		r SE	lo		lf	r-o S	ld	la	lo	lf-la				0	o-lf	0	f	o-lf	
Arctium minus	Lesser burdock False oat-grass	Ů	<u>+</u> "				0	0				10		0	1-10	· · ·		TUL	0		0	1-0 0	10	14	10	11-10				Ľ		0			
Artemisia vulgaris	Mugwort Italian Lords-&-ladies		гE	lr E																											\square		<u> </u>		—
Athyrium filix-femina	Lady-fern Orche species		r E	\square												0			lr	οE	lo E	οE								r	\square	lo r	r	lo E	0
Bellis perennis	Daisy A moss	0	r	\square									0	r			0													\square	\square	lo		\square	
Bromus sp	Soft brome Brome species		o-r E		0									r																					
Callitriche sp	Lichen species Water-starwort species																r S					r S										lf			
Calystegia sepium	Common water-starwort Hedge bindweed	la W o E		lr		0		r				0	lo	o lo		οH		a SE			r			0			r				a-d	,		lf	\vdash
Calystegia sylvatica	Bindweed species Great bindweed		<u> </u>	lo E															lo	0			0							lo	a-d	T			\vdash
Cardamine flexuosa	Shepherd's-purse Wavy bitter-cress Cuckooflower	lo	1							r									Ir	lf	r	0									0			Ir	lo
Carex arenaria	Sand sedge Glaucous sedge		<u> </u>		0							f		lo r							-										Ľ			ert	\vdash
Carex hirta	Hairy sedge Smooth-stalked sedge	lo	<u> </u>	f	lf	f	o-lf	0	r	f-la	0	f	f-la	f/r r	r-lo	f			lo		lf		0	f	0					lf If	r		r	lf	f
Carex nigra	Common sedge False fox-sedge		1					0		r		r	r	,											f-o r										1
Carex leporina	Oval sedge Pendulous sedge		1							r		r		-		r			Ir	ir		_		0						Ir		r		$\models \downarrow$	—
Carex pseudocyperus	Cyperus sedge Sedge species	1	 	Ħ			а	а		f				lf	H	r		_				_								┢╧┨	F	Ľ.	 	\square	o lo
Carex viridula ssp. Oedocarpa	Yellow Sedge Sweet chestnut	1	 	F			-							r																0	P		<u> </u>	\square	Ē
Centaurea aspera	Rough star-thistle Common knapweed	1	 	F						0				lo lo											lf						P		<u> </u>	f-la	1
Centaurium erythraea	Common centaury Common mouse-ear	r	οE	0	0	0		0	0	o-f	0	0 f	lo	0	0	0		f SE	r	0	0		0	0	0					0	r		0	0	
Chamaemelum nobile	Chamomile Fat-hen	r	Ë	Ē	É				_		r	0	-		Ē					-	_		_	0	-					Ē	Ē		Ē	r	Ĕ
Chenopodium sp.	Goosefoot species Opposite-leaved golden saxifrage	Ė	F	F		\square			lo	r						lo		_		lr	la	r -lf SE		-						lf	0	lf	<u> </u>	lf	F
Circaea lutetiana	Enchanter's nightshade Creeping thistle	r	οE	lo	а	f		lf		f-la	а	r	o-f	o-lf	F						_		la	0	0	_		0	r-lo	lo r	0	lo If	lo	0	lo
Cirsium palustre	Marsh thistle Spear thistle	r	r E		f	f 0	0	0	lf 0	o-lf		0		o r/f	0	0	r-o S lo S	o SE	r r	0	r 0	r E		0 0	r r	_				lf 0	0	" r-0	0 r	0 r	
Cladium mariscus	Great fen-sedge Hemlock	Ē	Ē	lr E					lo	lf	r		_	_	F				r	_	_			_	_	_		_			F	Ē	<u> </u>	F	F
Convolvulus arvensis	Field bindweed Canadian fleabane	—	F		0	\square				_				0				_				_		r	0				o-lf	r	P	r	<u> </u>	\square	F
Corylus avellana	Hazel Hawthorn	r H	rН	Ir E		\square		H					_	_	οE	оH	o S				_			_	_	_		0		r	0		<u> </u>	F	F
	Smooth Hawk's-beard Crested Dog's-tail	lf E		lo E	0	0	lf	0		o-lf		0	_	o/a f	r-0					lf	lo			lf	0	_		f		0	F		<u> </u>	F	F
Cyperus eragrostis Cyperus longus	Pale galingale Galingale	r E	F	o-lf	lo	E	lo	0		r	la	lo	a-d	a	E			_	_		_	_	f	0	lf-lo	r-lo	0	r	r	E	F	0	lo	E	F
Cytisus Dactylis glomerata	Brooms Cock's-foot		o-lf f		f	E	f	r	0	0	a		a	r	E	0	o S	f	f			_	0			r	_	f		f	0	E	E	r f-la	r
Dactylorhiza praetermissa	Southern marsh orchid Orchid species	Ē	Ē	F				r				r lo		lo				_	_		_						_			E	P		E	\square	F
Daucus carota	Wild Carrot Tufted hair-grass		—	P			o-lf							r																\square	P			\square	—
Digitalis purpurea	Foxglove Teasel		rН	\square											r				lo			r E								0	0	r	r	r	lf E
Dryopteris affinis	Scaly male-fern Broad bucker-fern		 																	lo NW										r	\square	r r-o	\square	\square	
Dryopteris filix-mas	Male-fern Common spike-rush	lf W	r E la-ld	0	lo		0	0		0				0					r		lr			r Ia	r					r	P		lo	\square	\vdash
Elytrigia repens	Common couch American willowherb		 	\square	f		lo																	r						\square	P	r		r	\vdash
Epilobium hirsutum	Great willowherb Spear-leaved willowherb		r H	0	r-0	0		r	0	r	la	lo lo	lo	lo									0	0			0		0	r	а	r	0	lo	\vdash
Epilobium obscurum	Short-fruited willowherb Hoary willowherb	r	r	P		0		r		r		lo		r										0						\square	P			\square	—
Epilobium sp.	Willowherb species Square-stalked willowherb		Ir E	\square										r																\square	P			\square	lo
Equisetum arvense	Field horsetail Water horsetail		o E 0		lf		lf	0	r	r		r 0	r	f lo-f/r										o-lf Ia						lf	f		—	r	a
	Marsh horsetail Hemp-agrimony		—	r If E					0					o r	lo E			r SE	lo				0	0	r	lo			r-o	lf	f	f	la	lf o-lf	0
Euphorbia amygdaloides	Wood spurge Eyebright		—	\square										r/f						lo										\square	P			r	—
Eurhynchium praelongum	Feather moss A Lichen		—	\square																										\square	f	la		\square	—
	Beech Japanese knotweed		—	P										0										r hs						P	\square			\square	—
Festuca arundinacea	Tall fescue Meadow fescue		—	\square						o o-lf	0			0										r	a-f					\square	P			\square	—
	Red fescue Fennel				o-f					f-la				r/f r																				\square	
	Ash Common hemp-nettle		\square													οH		r SE													o-f				lo
	Cleavers Hedge bedstraw	If H	\square	la E					0	r			0	lo	lf		οS	o SE	0	If NW	0	οE			а				lf	lo	r	0		0	0
Galium palustre	Upright hedge bedstraw Common marsh-bedstraw	lo H If	0			0		0	0	r	0	lo		la		r			lo		lo			0	r					lo	r	r	0	Ir	la
Geranium dissectum	Lady's bedstraw Cut-leaved crane's-bill	r			0								lo	lo o																				r	<u> </u>
Geranium robertianum	Dove's-foot crane's-bill Herb-robert		o E r E																			r E								lf	0	lo		lo	
Glechoma hederacea	Wood avens Ground ivy	lf H	<u>+</u>													lo			lo		r												lo		
Glyceria fluitans	Small sweet-grass Floating Sweet-grass	1	-	1												lo		lo	lo	lo	r o-lf								<u> </u>	lr If	0	lf		lo	\square
Hedera helix	Marsh cudweed	а		f-la			0	0				lf		r Io		lo		lo	lr	lo 0					r						0	lf	f	lo If-r	f
Holcus lanatus		lo H	a o E	lf H				0				lf			lo	rH			lr Ir	o If	o-lf	r-lo E	la	r	r lf				r-0	lf If	f	lf r la			f Ir Io
	Hogweed Yorkshire-fog	lo H r H f	a oE oE fE	lf H If E a			o a	а	a	0 a	a	lf a-d	0 a	r lo f a				lo r f	lr	o If Io a	o-lf		la	r r a		a-d		a		lf lf o? f-a?	f O f	r	f o a	l f-r r	f Ir Io r a
	Hogweed Yorkshire-fog Creeping soft-grass Wall barley	Io H r H f r H	a o E o E	lf H lf E a lf E			0 a 0	a o		a 0		a-d	a	f a o	d	r H lo a	a	r	lr Ir	o If Io	o-lf a	r-lo E	а	r a	lf a	a-d		а		lf lf o? f-a? lo	f 0 f 0	r la	0	lf-r r f-a lf	f Ir Io r a Io
Hydrocotyle vulgaris Hypericum humifusum	Hogweed Yorkshire-fog Creeping soft-grass Wall barley Marsh pennywort Trailing St. John's-wort	lo H r H f	a oE oE fE fH	If H If E a If E If E			o a	а	a	а	a			f a o f-la	d	r H lo a		r	lr Ir	o If Io a	o-lf	r-lo E		r	lf	a-d		a		lf lf o? f-a?	f O f	r la 0	0	l f-r r	f Ir Io r a Io
Hydrocotyle vulgaris Hypericum humifusum Hypericum tetrapterum Hypochoeris radicata	Hogwed Yorkshire-fog Creeping soft-grass Wall barley Marsh pennywort Trailing St. John's-wort Square-stalked St John's-wort Caf's-ear	lo H r H f r H If If I E Io E	a oE fE fH rE	If H If E a If E If E	a	f	0 a 0 lo/a	a o If	lo	a o la r	lf	a-d la	a lo	f a o f-la o	d r-lo	r H lo a If		r	ir ir ir a	o If Io a If NW	o-lf a lf	r-lo E f	a o-f	r a la	lf a f			a		If If o? f-a? Io Io	f 0 f 0 r	r la 0	0 a	lf-r r f-a lf	f Ir Io r a Io
Hydrocotyle vulgaris Hypericum humilusum Hypericum tetrapterum Hypochoeris radicata Iris pseudacorus Juncus acutiflorus	Hogweed Yorkshire-fog Creeping soft-grass Wall barley Marsh pennywort Trailing St. John's-wort Square-statiked St John's-wort Cat's-ear Yellow Iris Sharp-flowered rush	lo H r H r H If r E lo E f	a oE fE fH rE If	If H If E a If E If E If E	a 	f f f o	0 a 0 lo/a lo If 0	a o If Ia a	lo f f	a 0 1a r 0 a		a-d la f lo-lf f-a	a	f a f-la 0 0 la f-la	d r-lo r a-lf	r H lo a If	a a-ld S	r	lr Ir	o If Io a	o-lf a lf r f	r-lo E	a o-f o o	r a la lo la	lf a	a-d Id Io	0-1	a		lf lf o? f-a? lo	f 0 f 0 r r	r la 0	0	If-r r If If If	f Ir Io r Io Ia
Hydrocotyle vulgaris Hypericum humilusum Hypericum tetrapterum Hypochonris radicata Iris pseudacorus Juncus acutiflorus Juncus articulatus Juncus buronius	Hogweed Yorkshire-log Creeping soft-grass Wall barley Marsh pennywort Trailing SL. John's-wort Square-stalked St John's-wort Cat's-ear Yellow Iris Sharp-flowered rush Jointed rush Toad rush	lo H r H r H If r E lo E f	a oE fE fH rE If o-f	If H If E a If E If E If E f-la E la	a 	f f o o	0 a 0 lo/a lo lf	a o lf	f	a 0 1a r 0	lf 0	a-d la f lo-lf	a lo	f a f-la 0 0 la	d r-lo r a-lf	r H lo a If		r	Ir Ir a If	o If Io a If NW If NW	o-lf a lf	r-lo E f	a o-f o	r a la	lf a f	ld	0-1			If If 0? f-a? Io Io Io In	f 0 f 0 r r	r la 0 r-0	o a l	If-r r If-a If If	f Ir Io r Io Ia
Hydrocotyle vulgaris Hypericum humitusum Hypericum tetrapterum Hypochoeris radicata Tris pseudacorrus Juncus acutiflorus Juncus acutiflorus Juncus acutiflorus Juncus bufonius Juncus conglomeratus Juncus oftusus	Hogweed Yorkshire-log Creeping soft-grass Wall barley Marsh pennywort Trailing St. John's-wort Square-stalked St John's-wort Gats-ear Yellow Iris Sharp-flowered rush Jointed rush Toad rush Compact rush Soft rush	lo H r H f r H if r E lo E r f f If	a oE fE fH rE If o-f	If H If E a If E If E If E f-la E la Io	a o lo	f f f o	0 a 0 lo/a lf o a	a o lf la a/r	f f lo lo	a o la r o a f	lf 0	a-d la f lo-lf f-a f o	a lo	f a f-la o la f-la r/f r	r-lo r a-lf f	r H lo a If	a-ld S	r	Ir Ir Ir a If If	o If Io a If NW If NW	o-lf a lf r f lo	r-lo E f	a o-f o o o	r a la lo la o	lf a f	ld		r	d	If If 0? f-a? Io Io In Ir Ia	f 0 f 0 r 0 r-0	r la 0 r-0	o a l	If-r r If If If If	f Ir Io r Io Ia
Hydrocotyle vulgaris Hypericum humilusum Hypericum tetrapterum Hypochoeris radicata Iris pseudacorus Juncus actifilorus Juncus articulatus Juncus articulatus Juncus onglomeratus Juncus onglomeratus Juncus offusus Juncus offusus Juncus subrodulosus	Hogwed Yorkshire-fog Creeping soft-grass Wall barley Marsh pennywort Trailing St. John's-wort Square-stalked St John's-wort Cafs-ear Yellow Iris Sharp-flowered rush Jointed rush Toad rush Compact rush	lo H r H f r H if r E lo E r f f If	a oE oE fE fH rE If of-laE	If H If E a If E If E If E f-la E la Io	a o lo	f f 0 0	0 a 0 lo/a lo lf 0 a	a o lf la a/r r/f	f f lo lo	a o la r o a f o	lf o a	a-d la f lo-lf f-a f	a lo	f a f-la o la f-la r/f r	d r-lo r a-lf f	r H lo a If	a-ld S r-o	r	Ir Ir a If If If	o If Io a If NW	o-lf a If f Io Io SE	r-lo E f	a o-f o o o lf	r a la lo la o r	if a f o o	ld lo		r	d	If If 0? f-a? Io Io Io Ir Ia	f 0 f 0 r 0 r-0	r la 0 r-0	o a If a	If-r r If If If If	f Ir Io r a Io Ia Ia Ia
Hydrocotyle vulgaris Hypericum humllusum Hypericum tetrapterum Hypochoeris radicata Iris pseudacorus Juncus actifiorus Juncus articulatus Juncus articulatus Juncus articulatus Juncus artifusus Juncus offusus Juncus subnodulosus Koeleria macrantha Lapsana communis	Hogwed Yorkshire-fog Creeping soft-grass Wall barley Marsh pennywort Trailing St. John's-wort Gats-ear Yellow Iris Sharp-flowered rush Jointed rush Toad rush Compact rush Soft rush Hard rush Blunt-flowered rush	lo H r H f r H if r E lo E r f f If	a oE oE fE fH rE If of-laE	If H If E a If E If E If E f-la E la Io	a o lo	f f o o o	0 a 0 lo/a lo lf 0 a	a o lf la a/r r/f	f f lo lo	a o la r o a f o r	lf o a	a-d la f lo-lf f-a f o	a lo	f a f-la o la f-la r/f r r lf	d r-lo r a-lf f	r H lo a If	a-ld S r-o	r	Ir Ir a If If If	o If Io a If NW	o-lf a If f Io Io SE	r-lo E f	a o-f o o o lf	r a la lo la o r	if a f o o	ld lo		r	d	If If 0? f-a? Io Io Io Ir Ia	f 0 f 0 r 0 r-0	r la 0 r-0	o a If a	If-r r If If If If	f Ir Io r a Io Ia Ia Ia
Hydrocotyle vulgaris Hypericum tumilusum Hypericum tertapterum Hypochoeris radicata Iris pseudacorus Juncus articulatus Juncus articulatus Juncus articulatus Juncus onglomeratus Juncus offusus Juncus subnodulosus Koeleria macrantha Lapsana communis Lathyrus pratensis Lavatera arbora	Hogwed Yorkshire-fog Creeping soft-grass Wall barley Marsh pennywort Trailing SL John's-wort Gats-ear Yellow Iris Sharp-flowered rush Jointed rush Compact rush Bunt-flowered rush Blunt-flowered rush Crested hair-grass Nipplewort Meadow vetchling Tree mallow	lo H r H f r H If r E lo E r f f If If	a oE oE fE fH rE rF o-f of-laE if o	If H If E a If E If E If E f-la E la Io	a o lo	f f o o o	0 a 0 lo/a lf 0 a 0 0	a o lf la a/r r/f	f f lo lo	a o la r o a f o r	lf o a	a-d la f lo-lf f-a f o	a lo	f a o f-la o la f-la r/f r r lf f	d r-lo r a-lf f	r H lo a If	a-ld S r-o	r	Ir Ir a If If If	o If Io a If NW	o-lf a If f Io Io SE	r-lo E f	a o-f o o o lf	r a la lo la o r	if a f o o	ld lo		r	d	If If 0? f-a? Io Io Io Ir Ia	f 0 f 0 r 0 r-0	r la 0 r-0	o a If a	If-r r If If If If	f Ir Io Io Ia Ia If If
hydrocotyle vulgaris Hypericum humilusum Hypericum tetrapterum Hypochoris radicata tris pseudacorus Juncus acutiflorus Juncus acutiflorus Juncus bufonius Juncus bufonius Juncus onglomeratus Juncus offusus Juncus fiftexus Juncus inflexus Juncus inflexus Juncus subodulosus Koeleria macrantha Lapsana communis Lathyrus pratensis Lavatera arborea Lavatera arborea	Hogweed Yorkshire-fog Creeping soft-grass Wall barley Marsh pennywort Trailing St. John's-wort Square-statiked St John's-wort Cat's-ear Yellow Iris Sharp-flowered rush Jointed rush Toad rush Toad rush Compact rush Soft rush Hard rush Compact rush Soft rush Hard rush Compact rus	lo H r H f r H if r E lo E r f f If	a oE oE fE fH rE rF o-f of-laE if o	If H If E a If E If E If E f-la E la Io	a o lo	f f o o o	0 a 0 lo/a lo lf 0 a 0	a o lf la a/r r/f	f f lo lo	a o la r o a f o r	lf o a	a-d la f fo-lf f-a f o o	a lo	f a o f-la o la f-la r/f r f f o	d r-lo r a-lf f	r H lo a If	a-ld S r-o	r	Ir Ir a If If If	o If Io a If NW	o-lf a If f Io Io SE	r-lo E f	a o-f o o o lf	r a la lo la o r	if a f o o	ld lo		r	d	If If 0? f-a? Io Io Io Ir Ia	f 0 f 0 r 0 r-0	r la 0 r-0	o a If a	If-r r If If If If	f Ir Io Io Ia Ia If If
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Ranunculus acris	Meadow buttercup Lesser celandine		ļ —	1	[1	1	ļ —	-	0	0		-	0	r-o						r	0			0		ļ	1		r			r	\square	r
Ranunculus ficaria Ranunculus flammula	Lesser spearwort	f	o			lf	lf	lo	o	lf		f-la		lo	o-f	r	οS		lo		o		0	o-lf	r	r				r				r	lf
Ranunculus repens Ranunculus sceleratus	Creeping buttercup Celery-leaved buttercup	a lo	o-lf	а	f f	f		f	0	f-a	а	f-a lo	f	f o	a-lf	f	а	f SE	f	а	а	а	f	a r	f	а		f	a-d	f	o-f	0	а	o-lf	
Ranunculus x segretii	Hybrid water-crowfoot	-	I	<u> </u>		<u> </u>	I	I	I	I			le .	r													<u> </u>	<u> </u>	1	I					
Raphanus raphanistrum ssp. maritimus Rhytiadelphus squarrosus	Sea radish A Moss				o-f								lo	r																					lr
Rorippa nasturtium-aquaticum Rosa canina	Water-cress Dog-rose	lo W				0								0		If SE					lo			la	lf W					lo				, I	
Rubus fruticosus agg.	Bramble		ld E			0	0	r		0			la	0	lf	fH	o-lf S		lo	lf A	lf E		la	lf		ld		lf	la	la	0	0		lo	0
Rumex acetosa Rumex acetosella	Common sorrel Sheep's sorrel	r Ir E	r E	Ir E				r	0	0	f	lo		0		r			r		0		0		r			r		f	0		0	0	0
Rumex conglomeratus Rumex cf. crispus	Clustered dock Curled dock	f	r	0	0			o-lf o	r	o-lf o	0	f		f/r					0	0	f r		0	0	0			r		0	f		0	0	0
Rumex obtusifolius	Broad-leaved dock	r	r	lo E	f	0	f	f		0	0	0		lo	0		0		0	0	0	0								?f	0	r	r	r-o	
Rumex sanguineus Salix alba	Wood dock White willow			lr E											0	r	0	r SE										0				0		\vdash	
Salix aurita	Eared willow																		1-						-			r-o							
Salix cf cinerea Salix cinerea ssp. oleifolia	Sallow a poplar or willow		rН	lf E		0					lf								lo					xaurita? L	lo .f							0		0	
Salix elaeagnos Salix fragilis	Olive willow Crack willow		r F	lo E									0											lo hs										\square	
Salix oleifolia	Grey willow			10 2															lf		r			10 110											lf
Salix sp. Salix viminalis	Willow species Osier			r E								0																							
Salvia verbenaca Sambucus nigra	Wild clary Elder			Ir H										0	r E																o-f	0		\square	lr
Scrophularia auriculata	Water figwort											lo						_													01				
Scrophularia scorodonia Senecio jacobaea	Balm-leaved figwort Common ragwort		r							0		0		r	r r-lo	rН	οS	o E r SE	0	r	r		lo	r								0		r	
Setaria verticillata Silene dioica	Rough Bristle-grass Red campion				0									0	0	lo	οE	o SE	lf	lo E	lo	r-o E								lr	0	0		lr r	
Silene dioica x alba					0									0	0	10	UL	0.3		IU L	10	1-0 L									0	0		r	
Silene vulgaris Sinapsis alba	Bladder campion White mustard													0																				r	
Solanum dulcamara	Bittersweet	r			lo	0	_		0		0	1-			lo	r	r-lo E		r		o SE		r	0			0								r
Solanum nigrum Sonchus asper	Black nightshade Prickly sow-thistle	r				0	o r	0		r	f r	lo		r					0	r			r	0								r			lr
Sonchus oleraceaus Sparganium erectum	Smooth sow-thistle Branched bur-reed	r r	гE	rЕ	<u> </u>		0	0		r		o r		r Io					lf	r	0	$\vdash \neg \neg$		0							lr	0	f	r	r
Spergula ssp.	Sea-spurry species		-			1															Ľ			r				1	1		Ľ.				
Stachys sylvatica Stellaria graminea	Hedge woundwort Lesser stichwort	IO E	οE	IO E	L	L	L	L	L	L	L	L	L	L	r	οH	_	lo	0	lo	r			lo		L	L	L	r	lo		0		o-r lo	lr
Stellaria holostea Stellaria media	Greater stichwort Common chickweed	r				<u> </u>	<u> </u>			0						0		o SE			r							<u> </u>	Ē	lo				\square	
Stellaria uliginosa	Bog stitchwort	If S	r	1	1	1	1					r			r-o		r S	5 UL	lf	f	f		r					1	1	lo	o-lf		o-lf	r	0
Symphytum officinale Tanacetum parthenium	Common comfrey Feverfew	r E	r E		<u> </u>		<u> </u>												r								 		1				lo	┢──┦	
Taraxicum officinale agg. Teucrium scorodonia	Dandelion Wood sage	r lo		lr E										r	r				lr		r											,		r Ir	_
Thlaspi arvense	Field penny-cress	U																	11													-		ır İr	-
Tilia europaea Trifolium arvense	Lime Hare's-foot clover		rН				<u> </u>			r												\vdash					<u> </u>		<u> </u>					┢──┦	
Trifolium dubium	Lesser trefoil	loE	I	lo E		<u> </u>		I	I	0		_	I	r			_					f	~		£ .		<u> </u>	<u> </u>	1	I					
Trifolium pratense Trifolium repens	Red clover White clover	lf	ld f E	lf	o f	f	o f	0	0	o a	lf	0 If	lo	0 f	0	а	0	f-a	lf	f		T	0		f-r f				a-d	r	0			0	0
Trifolium sp. Trifolium subterraneum	Clover species Subterranean clover			<u> </u>										r r								\vdash												$\vdash \exists$	
Tripleurospermum inodorum	Scentless mayweed	r		I .	1	1,	1			r		o-lf		0	r	r		f						r				1	1						
Typha latifolia Ulex europaeus	Bulrush Gorse			lr		f			L	L		o r	L	0										r lo es	lo 0		0		o-f	L					Ir
Ulmus sp. Ulmus glabra	Elm species Wych elm					<u> </u>	<u> </u>					r																<u> </u>	Ē	0				\square	
Ulmus minor ssp. minor	Small-leaved elm	lf H		1		1																		lo hs				1	1						
Umbilicus rupestris Urtica dioica	Navelwort Common nettle	r H If H	lf E		0	lo	0	0	f		0	lo	o-f	lo	f	lf	o-lf	ld	lo	0	lo	f-la	lf	lf	f-lo		f		o-lf	?lf	r a	ld	lo	┢──┦	0
Valerianella locusta Verbena officinalis	Common cornsalad Vervain		ļ —	1		1			-	-				0	r												ļ	1	1						
Veronica beccabunga	Brooklime	lo S	lf-d	lo		f						la				If SE	o S	o SE	lo		r S			lf	lo									lo	
Veronica chamaedrys Veronica serpyllifolia	Germander speedwell Thyme-leaved speedwell			<u> </u>													lo S r S		r	lo	lo	\vdash									lf			lf	Ir
Vicia cracca	Tufted vetch			lf E	1	1	0	0		r				0			-							r				1	1						
Vicia hirsuta Vicia sativa ssp. sativa	Hairy tare Common vetch	r	r E	If E	0	L	lo	f	L	r			L	0														L	L	L					
Viola riviniana Number of Wetland Species	Common dog-violet	40	29	25	15	25	20	33	26	30	20	40	10	51	26	21	17	12	31	16	21	11	23	40	34	1/	7	Q	10	lo 29	24	10	23	10 29	26
reamber or metianic opecies	1	ΨU	20	20	10	20	20	55	20	52	20	42	12	JI	20	21	17	15	51	10	31		20	40	J4	14	. '	J	10	23	24	13	20	23	20

Key: **Bold text** Compartment columns

Wet Meadow Species E= Edge H= Hedge S= Stream SE = Stream Edge W = Water Wa = On Wall NW= Near Wood

Wet Meadow Habitat Condition Monitoring Objectives Site...... Date......

maintenan	ce management	
Extent	Lower limit	No loss of wet meadow habitat in Jersey in the protected sites
	Upper limit	Restoration of meadows to add to area of those that are in favourable condition
Quality	Lower limit	Improvement in all meadows not in favourable condition, an maintenance of those in favourable condition
		Site-specific habitat definitions
Criteria fo meadows (field treate separately)	each area only i 80% of the There show Pushing a 6 There show >80% of p and >45% No one or t At least 15 are spread Foo Ma Hai Ma Yel Rag Pur Less Am Gyj	a of damp/wet ground in the meadow and complete survey for thin n each field: vegetation should be <45cms tall (excluding flowering stems). ld be <10% bare ground that damages the sward i" nail into the soil should be easy at any time ld be < 5% scrub/tree cover lants should be flowering and preferably seeding prior to any cutting during grazing after re-growth (if cut) wo species should be dominant across the vegetation of the following plants should be occasional to abundant. Note if they but throughout the wet area or only in a few spots: l's water cress Galingale rsh thistle Common spike-rush ry sedge Water horsetail rsh bedstraw Marsh pennywort low iris Jointed rushes rged robin Water forget-me not spp ser spearwort Common fleabane phibious bistort/water pepper Sywort osywort Greater bird's-foot trefoil nkey flower Bittersweet stitchwort Brooklime other sedges Other sedges
Presence features	n T C N d F	n any 1 field (note, estimate extent and mark locations of each of nap if present): all herbs >1.5m tall should not be dominant trasses without wetland plants listed should not dominate to invasive non-native species e.g. Japanese knotweed. To signs of pollution in any stream or ditch (smell of sewage, signs of arty water?) ield cut and cuttings not removed. ny signs of damage by vehicles/trampling/dumping etc?

Appendix 4.1

Conservation objective for maintenance management		To maintain the maritime cliff patches on the rocky coasts in favourable condition
Extent	Lower limit	The area of all the patches together is not reduced. See aerial photo – Date - and mapped patches.
	Upper limit	No limit, but note if displaces good quality coastal heath or grassland vegetation and consider compensation for this
Quality	Lower limit	80% of patches meets the quality criteria set out below

Site-specific habitat definitions

Criteria for maritime cliff Assess for each patch	At least 8 of the fol	lowing present at oc ouley Bay SSI, where Sweet vernal grass Sheep's bit Sea plantain Rock samphire Wild carrot	s with no/few higher plants casionally or more widely in only 4 needed): Portland spurge Ox-eye daisy English stonecrop Danish scurvy-grass Rock spurrey
	North coast Intermediate polypod Foxglove Ivy Honeysuckle Bird's-foot trefoil	y Early Soft b Sea fe a spleenwort should b	than occasional: n coast/Les Landes sand-grass prome ern-grass be present on Les Landes and
Presence of damaging features	In any 1 patch: There should be no invasive Hottentot fig, ice or dew plants of any species. Estimate the % cover of any of these across the patch (only on S coast and Les Landes). There should be no damage to the ground from excavation, dumping of materials, etc. Estimate the % cover of any of these There should be no trampling that results in significant bare ground (eg from climbing). Estimate the % of the patch affected.		

Appendix 5.1a

	on objective f e management	for To maintain or improve the marshes/reed beds/swamps/fresh water condition where:
Extent Lower limit		No loss of each of the habitat types in Jersey in the protected sites. Note that ponds can fill in naturally over time and may need management or replacement
	Upper limit	No upper limit, provided they do not expand into habitats also of high value (eg wet meadows).
Quality	Lower limit	Maintenance of character and composition in all habitat types
	-	Site-specific habitat definitions
marsh/freshwat multiple a er habitats – pond). soils/hydrology		s to be assessed based on the whole area of the feature. Record e areas of same feature individually (each area of reed bed or each - ground to be soft at all times with water on the surface except in drought
condition of soil un Freshwat (vegetation - no ag - wo - al All habit There sho >80% of >90% of No one of		ater – Water levels stable at normal level with 10% tolerance ion/algae around edge shows where water level is normally). The signs of pollution in water (sewage, effluent from industry of agriculture) water should be clear not milky or grey. Ilgal mats should not dominate the water surface
features eac Gra No		In any habitat patch (note, estimate extent and mark locations of each on map if present and relevant): Grasses without wetland plants listed should not dominate No invasive non-native species Any signs of damage by vehicles/trampling/dumping etc?

Marsh/fresh water Habitat Condition Monitoring Objectives Site...... Date......

Criteria for marsh/freshwat er habitats	Habitat definitionsHabitat specific criteria – note all species present and their abundance in th patchReed Bed –should be 1.5-2m+ high, dense reeds, occasional other species presentSwamp – should be 1.5-2m+ high, dense reeds, occasional other species presentSwamp – should be dense tall, mixed species with none dominant – list specie and their abundanceMarsh/fen – should be 0.4 – 1.5m high (grazed or not), at least three of the lister species should be more than rare in the vegetationOpen water – at least 1 of the list more than rare in the water				
	Reed bed Swamp Marsh/fen Open water				
	Bittersweet	Swamp Bur-reed		Open water Common spike-	
	Billersweet	Dui-leeu	Common spike- rush	Common spike- rush	
	Common reed	Common reed	Rushes	White water lily	
	Great hairy	Greater reedmace	Galingale	Common starwort	
	willow herb	(bulrush)			
	Hedge bindweeds	Rushes	Marsh bedstraw	Celery-leaved buttercup (muddy edges)	
	Hemp agrimony	Yellow iris	Fool's water cress	Yellow iris	
	Water horsetail		Marsh thistle	Great water dock	
	Sedges		Hairy sedge	Fool's watercress	
	Duckweed		Marsh pennywort	Watercress	
			Purple loosestrife	Brooklime	
			Common fleabane	Bog stitchwort	
			Amphibious	Amphibious	
			bistort/water	bistort/water	
			pepper	pepper	
			Water forget-me not spp	Water milfoil	
			Water mint	Water plantain	
			Lesser spearwort	•	
			sedges		
			Gypsywort		
			Greater bird's-		
			foot trefoil		
			Brooklime		
			Bog stitchwort		
			Hemlock water		
			dropwort		
			Lesser spearwort		
			Great sword		
			sedge (St Ouen's)		
			ferns		
			Marsh pennywort		
			Hemp agrimony		
			Purple loosestrife		
			Marsh bedstraw		

Appendix 6.1

Conservation objective for maintenance management		To maintain the salt marsh patches along the fringing dunes in St Ouen's Bay in favourable condition where:		
Extent Lower limit		The area of all the patches together is not reduced. See aerial photo and mapped patches 2007 for area covered.		
	Upper limit	No limit, but note if displaces good quality dune vegetation and consider compensation for this		
Quality	Lower limit	19 out of 22 patches (as marked on the attached map of the salt marsh vegetation) meets the quality criteria set out below, with the largest 2 patches needing to be in favourable condition.		
		Site-specific habitat definitions		
Criteria fo		In any 1 patch:80% of the vegetation should be <30cms tall.Bare soil/shingle should be intimately dispersed between plants in smallpatches, be naturally derived and not man-made.There should be at least 2 of the following plants that are frequent toabundant in the patch:Alderney sea lavenderBuck'- horn plantainThriftCurved sea hard-grassSea-purslaneSea sandwort		
		In any one patch at least 2 of the following species should be present: Rock Samphire Sea bindweed Danish scurvy-grass Sea holly Sea beet Sea couch Portland spurge Sea fern-grass		
features The the The du The the ave If and		any 1 patch: here should be no invasive ice or dew plants of any species. Estimate e % cover of any of these across the patch. here should be no damage to the ground from vehicles, excavation, mping of materials, etc. Estimate the % cover of any of these here should be no trampling that results in bare ground (paths through e vegetation) or that reduces the vegetation by more than half its erage height. Estimate the % of the patch affected. stock grazing is present, estimate % flowering of main plants in patch d comment on degree of any trampling damage. These should not be gnificant (ie over 20% of plants affected).		

Appendix 6.2

Conservation objective for maintenance management		or To maintain the strand line patches along the fringing dunes in St Ouen's Bay in favourable condition where:	
Extent Lower limit Upper limit		The area of all the patches together is not reduced. See aerial photo and mapped patches 2007 for area covered.	
		No limit, but note if displaces good quality dune vegetation and consider compensation for this	
Quality	Lower limit	18 out of 20 patches (as marked on the attached map of the strand line vegetation, plus the strip below the wall in Section 1)	
	1	Site-specific habitat definitions	
60 Ba de Th		In any 1 patch: 60% of the vegetation should be <30cms tall. Bare soil/shingle should be more than 40-50% of the patch, be naturally derived and not man-made. There should be at least 2 of the following plants that are frequent in the patch: Annual sea blite Rock samphire Sea holly Sea sandwort Sea-purslane	
		In any one patch at least 2 of the following species should be present: Sea kale Yellow horned poppy Sea beet Portland spurge Sand spurrey Other orache species Sea rocket Sea kale should occur in at least 2 patches Sea rocket should occur in at least 5 patches Yellow horned sea poppy should occur in at least 6 patches Count the plants of kale and poppy – these should not decline	
Presence of features	f damaging	In any 1 patch: There should be no invasive ice plants of any species. Estimate the % cover of any of these across the patch. There should be no damage to the ground from vehicles, excavation, dumping of materials, etc. Estimate the % cover of any of these. There should be no trampling that results in bare ground (paths through the vegetation) or that reduces the vegetation by more than half its average height. Estimate the % of the patch affected. If stock grazing is present, estimate % flowering of main plants in patch and comment on degree of any trampling damage. These should not be significant (ie over 20% of plants affected).	

