4 Summary and Recommendations

The analysis described in section two indicates the RIS and guidelines are suitable for providing a standardised format that allows Contracting Parties to record information and provide criteria by which a wetland is considered internationally important.

The analysis described in section three examined the RIS's to determine whether they provided baseline and monitoring information which could be used to determine a 'change in ecological character' of a wetland. The components which describe 'ecological character' details of which are provided in Table 1, were found to be insufficient in the areas of 'processes' and 'functions' for the RIS's examined. In addition, the baseline and monitoring information supplied by the selected RIS's was in general poorly addressed. The information supplied was superficial and did not cover important issues to adequately establish a meaningful baseline or monitoring program.

Additionally, the design of the RIS did not allow for important correlations between values and threats with parameters for recording baseline data and associated monitoring programs to determine if changes were occurring. The RIS was not initially designed to detect changes in ecological character and appears best suited to providing a general description of the wetland site.

To accurately describe a 'change in ecological character' of a wetland the following recommendations are made:

- the RIS guidelines to incorporate definitions of 'ecological character' and 'change in ecological character' as described in Resolution C.6.1. This assists contracting parties in describing a full range of values and threats at a wetland;
- the design of the RIS to incorporate correlations between individual values and threats with the appropriate parameters for baseline data. This is essential if the relevant information is to be clearly requested and concisely recorded;
- utilize Finlayson (1996), "framework for designing a wetland monitoring program" to design a monitoring program which is directly related to the values and threats at a wetland. This will assist in recording information over time, which is an important component for detecting 'changes' in ecological character; and

- the RIS to be updated after a set period of time. This allows early detection and possible remediation of adverse effects to the ecological character of a wetland.

or

- an additional document could be specifically formulated which clearly and concisely provides information on all of the above points.

4.1 Limitations of the Report

Following the sixth Conference of Contracting Parties held in Brisbane 1996, modifications were made to RIS guidelines to provide additional information for assessing the ecological character of a wetland. This study was undertaken to assess the usefulness of the RIS's completed prior to this meeting. As a result it was anticipated the usefulness for detecting a 'change in ecological character' would be low. However, this study was undertaken to provide, more quantitative or formal support for the decision to modify the RIS's. In addition, insufficient RIS's have been compiled since the Brisbane Conference to permit assessment of the new guidelines.

This analysis incorporates a degree of subjectivity associated with the compilation of the matrices. In addition, some subjectivity was present in the initial compilation of each RIS.

Several of the RIS's needed to be translated into English, which may also have resulted in some loss of information.

4.2 Future Research

The analysis in this study clearly indicates that the original RIS's are not adequate with respect to detecting ecological change. This study could be repeated to assess the adequacy of new RIS's which have been compiled using the updated guidelines when they become available.

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Appendix 1

Prospective RIS Site Data for Testing Guidelines

Prospective {RIS cream} site data for testing monitoring guidelines (Printed: 21 July 97)

Record#	SITEREF	LEFT(COUNTRY,11)	LEFT(SITENAME,25)	FORMOFDATA
2	1AG002	ALGERIA	Lac Tonga	RIS
11	7AS001	AUSTRIA	Neusiedlersee, Seewinkel	RIS
12	7AS002	AUSTRIA	Donau-March-Auen	RIS
13	7AS003	AUSTRIA	Untere Lobau	RIS
14	7AS004	AUSTRIA	Stauseen am Unteren Inn	RIS
15	7AS005	AUSTRIA	Rheindelta Bodensee	RIS
16	7AS006	AUSTRIA	Pürgschachen Moor	RIS
17	7AS007	AUSTRIA	Sablatnigmoor	RIS
18	7AS008	AUSTRIA	Rotmoos im Fuschertal	RIS
19	7AS009	AUSTRIA	Hörfeld - Moor	RIS
20	1BW001	BOTSWANA	Okavango Wetland System	RIS
21	6BZ003	BRAZIL	Mamirauá	RIS
22	6BZ005	BRAZIL	Reentrancias Maranhenses	RIS
23	3BG001	BULGARIA	Srébarna	RIS
24	3BG003	BULGARIA	Atanassovo Lake	RIS
26	1CD001	CHAD	Lac Fitri	RIS
27	6CL001	CHILE	Carlos Anwandter Sanctuar	RIS
28	6CL002	CHILE	Salar de Surire	RIS
30	6CL004	CHILE	Salar de Tara	RIS
31	6CL005	CHILE	Sistema hidrológico de So	RIS
32	6CL006	CHILE	Complejo lacustre Laguna	RIS
33	6CL007	CHILE	El Yali	RIS
34	2CH007	CHINA (Hong	Mai Po Marshes and Inner	RIS
35	1ZR001	CONGO,DEMOC	Parc national des Virunga	RIS
36	1ZR002	CONGO,DEMOC	Parc national des Mangrov	RIS
37	6CS006	COSTA RICA	Humedal Caribe Noreste	RIS
38	1CI001	COTE D'IVOI	Parc national d'Azagny	RIS
39	7DK001	DENMARK	Fiil-So	RIS
40	7DK002	DENMARK	Ringkobing Fjord	RIS
41	7DK003	DENMARK	Stadil and Veststadil Fjo	RIS
47	7DK009	DENMARK	Nordre Ronner	RIS
49	7DK011	DENMARK	Randers and Mariager Fjor	RIS
50	7DK012	DENMARK	Anholt Island (waters nor	RIS
51	7DK013	DENMARK	Horsens Fjord & Endelave	RIS
52	7DK014	DENMARK	Stavns Fjord and adjacent	RIS
55	7DK017	DENMARK	South Funen Archipelago	RIS
56	7DK018	DENMARK	Sejero Bugt, Nekeselo Bug	RIS
58	7DK020	DENMARK	Karrebæk, Dybso and Avno	RIS

59	7DK021	DENMARK	Fejo and Femo Isles (wate	RIS
64	7DK026	DENMARK	Ertholmene Islands (east	RIS
66	6EC001	ECUADOR	Manglares Churute	RIS
68	1EG001	EGYPT	Lake Bardawil	RIS
69	1EG002	EGYPT	Lake Burullus	RIS
70	3EE002	ESTONIA	Alam-Pedja Nature Reserve	RIS
71	3EE003	ESTONIA	EmajΣe Suursoo Mire and P	RIS
72	3EE004	ESTONIA	Endla Nature Reserve	RIS
73	3EE005	ESTONIA	Hiiumaa Islets and KΣina	RIS
74	3EE006	ESTONIA	Muraka Nature Reserve	RIS
75	3EE007	ESTONIA	Nigula Nature Reserve	RIS
76	3EE008	ESTONIA	Puhto-Laelatu-Nehatu Wetl	RIS
77	3EE009	ESTONIA	Soomaa National Park	RIS
78	3EE010	ESTONIA	Vilsandi National Park	RIS
79	6FR009	FRANCE	Grand Cul-de-Sac Marin de	RIS
80	6FR010	FRANCE	Basse-Mana	RIS
81	7FR001	FRANCE	Camargue	RIS
82	7FR002	FRANCE	Etangs de la Champagne hu	RIS
83	7FR003	FRANCE	Etangs de la Petite Woëvr	RIS
84	7FR005	FRANCE	Golfe du Morbihan	RIS
85	7FR008	FRANCE	Etang de Biguglia	RIS
86	7FR012	FRANCE	Baie du Mont Saint-Michel	RIS
87	7FR013	FRANCE	Grande Briere	RIS
88	7FR014	FRANCE	Lac de Grand-Lieu	RIS
89	7FR015	FRANCE	Basses Vallees Angenvines	RIS
90	7FR016	FRANCE	Marais salants de Guérand	RIS
92	1GM001	GAMBIA	Baobolon Wetland Reserve	RIS
93	3GE001	GEORGIA	Central Kolkheti	RIS
95	7DE009	GERMANY	Rhein, Eltville - Bingen	RIS
96	7DE011	GERMANY	Donauauen & Donaumoos	RIS
97	7DE012	GERMANY	Lech - Donau - Winkel	RIS
99	7DE014	GERMANY	Ammersee	RIS
100	7DE015	GERMANY	Starnberger See	RIS
101	7DE016	GERMANY	Chiemsee	RIS
102	7DE017	GERMANY	Unterer Inn, Haiming - Ne	RIS
103	7DE018	GERMANY	Ostseeboddengäwasser West	RIS
104	7DE019	GERMANY	Krakower Obersee	RIS
105	7DE020	GERMANY	Ostufer Müritz	RIS
106	7DE021	GERMANY	Niederung der Untere Have	RIS
107	7DE024	GERMANY	Helmestausee Berga-Kelbra	RIS
108	7DE025	GERMANY	Galenbecker See	RIS
109	7DE026	GERMANY	Rieselfelder Münster	RIS
110	7DE027	GERMANY	Weserstaustufe Schlüsselb	RIS

111	7DE028	GERMANY	Unterer Niederrhein	RIS
112	7DE029	GERMANY	Hamburgisches Wattenmeer	RIS
114	7GR001	GREECE	Evros Delta	RIS
115	7GR002	GREECE	Lake Vistonis, Porto Lago	RIS
116	7GR004	GREECE	Nestos delta & adjoining	RIS
117	7GR005	GREECE	Lakes Volvi & Koronia	RIS
118	7GR006	GREECE	Artificial lake Kerkini	RIS
120	7GR008	GREECE	Lake Mikri Prespa	RIS
121	7GR009	GREECE	Amvrakikos gulf	RIS
122	7GR010	GREECE	Messolonghi lagoons	RIS
123	7GR011	GREECE	Kotychi lagoons	RIS
124	6GU001	GUATEMALA	Laguna del Tigre	RIS
125	6GU002	GUATEMALA	Manchón-Guamuchal	RIS
126	6GU003	GUATEMALA	Refugio de Vida Silvestre	RIS
127	1GI001	GUINEA.	Ile Alcatraz	RIS
128	1GI002	GUINEA.	Iles Tristao	RIS
129	1GI003	GUINEA.	Rio Kapatchez	RIS
130	1GI004	GUINEA.	Rio Pongo	RIS
131	1GI005	GUINEA.	Konkouré	RIS
132	1GI006	GUINEA.	Ile Blanche	RIS
134	3HU001	HUNGARY	Szaporca	RIS
135	3HU002	HUNGARY	Velence - Dinnyés	RIS
136	3HU003	HUNGARY	Kardoskút	RIS
137	3HU004	HUNGARY	Kis-Balaton	RIS
138	3HU005	HUNGARY	Mártély	RIS
139	3HU006	HUNGARY	Kiskunság	RIS
140	3HU007	HUNGARY	Pusztaszer	RIS
141	3HU008	HUNGARY	Hortobágy	RIS
142	3HU009	HUNGARY	Ocsa	RIS
143	3HU010	HUNGARY	Tata, Öreg-tó (Old Lake)	RIS
144	3HU011	HUNGARY	Lake Fertö	RIS
145	3HU012	HUNGARY	Lake Balaton	RIS
146	3HU013	HUNGARY	Bodrogzug	RIS
147	7IC003	ICELAND	Grunnafjördur	RIS
149	2IL001	ISRAEL	En Afeq	RIS
150	2IL002	ISRAEL	Hula	RIS
151	2JP001	JAPAN	Kushiro-shitsugen	RIS
152	2JP002	JAPAN	Izu-numa and Uchi-numa	RIS
153	2JP003	JAPAN	Kutcharo-ko	RIS
154	2JP004	JAPAN	Utonai-ko	RIS
155	2JP010	JAPAN	Sakata	RIS
156	2KR001	KOREA, REPU	Yongneup of Mt. Daeam, hi	RIS
157	3LV001	LATVIA	Lake Engure	RIS

158	3LV002	LATVIA	Lake Kanieris	RIS
159	3LV003	LATVIA	Teicu and Pelecares bogs	RIS
160	7MT001	MALTA	Ghadira	RIS
161	4ME001	MEXICO	Ría Lagartos	RIS
163	1MC002	MOROCCO	Merja Sidi Boughaba	RIS
164	1MC003	MOROCCO	Lac d'Afennourir	RIS
165	1MC004	MOROCCO	Baie de Khnifiss	RIS
167	1NA002	NAMIBIA	Sandwich Harbour	RIS
169	1NA004	NAMIBIA	Etosha Pan, Lake Oponono	RIS
170	2NE001	NEPAL	Koshi Tappu	RIS
171	7NT001	NETHERLANDS	Groote Peel	RIS
172	7NT002	NETHERLANDS	Weerribben	RIS
173	7NT003	NETHERLANDS	Naardermeer	RIS
174	7NT004	NETHERLANDS	Boschplaat	RIS
175	7NT005	NETHERLANDS	Griend	RIS
176	7NT006	NETHERLANDS	De Biesbosch (southern pa	RIS
177	7NT007	NETHERLANDS	Waddenzee (Wadden Sea)	RIS
178	7NT008	NETHERLANDS	Oosterschelde & Markiezaa	RIS
179	7NT009	NETHERLANDS	Zwanenwater	RIS
180	7NT010	NETHERLANDS	Oostvaardersplassen	RIS
181	7NT011	NETHERLANDS	Engbertsdijksvenen	RIS
182	1NG001	NIGER	Parc national du "W"	RIS
192	7NO015	NORWAY	Nordre Tyrifjord	RIS
208	2PA006	PAKISTAN	Kinjhar (Kalri) Lake	RIS
210	2PA008	PAKISTAN	Haleji Lake	RIS
211	6PY001	PARAGUAY	Lago Ypoá	RIS
212	6PY002	PARAGUAY	Río Negro	RIS
213	6PY003	PARAGUAY	Tifunque	RIS
214	6PY004	PARAGUAY	Estero Milagro	RIS
215	6PE004	PERU	Lago Titicaca	RIS
216	6PE005	PERU	Lake Junín	RIS
217	6PE006	PERU	Manglares de Tumbes	RIS
218	6PE007	PERU	Pantanos de Villa	RIS
219	2PH001	PHILIPPINES	Olango Island Wildlife Sa	RIS
221	7PT002	PORTUGAL	Ria Formosa	RIS
226	7PT007	PORTUGAL	Estuário do Sado	RIS
227	7PT008	PORTUGAL	Lagoa de Sto. André et La	RIS
228	7PT009	PORTUGAL	Ria de Alvor	RIS
229	7PT010	PORTUGAL	Sapais de Castro Marim	RIS
230	1SE001	SENEGAL	Djoudj	RIS
231	1SE002	SENEGAL	Bassin du Ndiaël	RIS
232	1SE003	SENEGAL	Delta du Saloum	RIS
233	1SE004	SENEGAL	Gueumbeul	RIS

234	3SV001	SLOVAK REPU	Súr	RIS
235	3SV002	SLOVAK REPU	Parízské mociare (Pariz m	RIS
236	3SV003	SLOVAK REPU	Cicovské mrtve rameno (Ci	RIS
237	3SV004	SLOVAK REPU	Senné-rybníky (Senné fish	RIS
239	3SV006	SLOVAK REPU	Dunajské luhy (Danube flo	RIS
242	1ZA013	SOUTH AFRIC	Natal Drakensberg Park	RIS
243	1ZA014	SOUTH AFRIC	Ndumo Game Reserve	RIS
244	1ZA015	SOUTH AFRIC	Seekoeivlei Nature Reserv	RIS
246	7SP002	SPAIN	Las Tablas de Daimiel	RIS
247	7SP008	SPAIN	S'Albufera de Mallorca	RIS
248	7SP009	SPAIN	Laguna de la Vega (o del	RIS
249	7SP010	SPAIN	Laguna de Villafáfila	RIS
250	7SP011	SPAIN	Complejo intermareal Umia	RIS
251	7SP012	SPAIN	Rias de Ortigueira y Ladr	RIS
252	7SP013	SPAIN	Albufera de Valencia	RIS
253	7SP014	SPAIN	Pantano de El Hondo	RIS
254	7SP015	SPAIN	Lagunas de la Mata y Torr	RIS
255	7SP016	SPAIN	Salinas de Santa Pola	RIS
256	7SP017	SPAIN	Prat de Cabanes - Torrebl	RIS
257	7SP020	SPAIN	Laguna de Manjavacas	RIS
258	7SP021	SPAIN	Lagunas de Alcázar de San	RIS
259	7SP022	SPAIN	Laguna del Prado	RIS
260	7SP023	SPAIN	Embalse de Orellana	RIS
261	7SP024	SPAIN	Complejo de Corrubedo	RIS
263	7SP036	SPAIN	Lagunas de Laguardia (Ala	RIS
264	2SR001	SRI LANKA	Bundala	RIS
265	6SM001	SURINAME	Coppenamemonding	RIS
268	7SW003	SWEDEN	Helgeån	RIS
304	1TU001	TUNISIA	Ichkeul	RIS
306	4US001	UNITED STAT	Ash Meadows	RIS
308	4US003	UNITED STAT	Izembek	RIS
309	4US004	UNITED STAT	Okefenokee	RIS
310	4US005	UNITED STAT	Everglades	RIS
313	4US008	UNITED STAT	Cache-Lower White Rivers	RIS
316	4US011	UNITED STAT	Delaware Bay	RIS
317	6UR001	URUGUAY	Bañados del Este y Franja	RIS
318	6VE001	VENEZUELA	Cuare	RIS
320	1ZM001	ZAMBIA	Kafue Flats: Lochinvar &	RIS
321	1ZM002	ZAMBIA	Bangweulu Swamps: Chikuni	RIS

Prospective (RIS cream) site data for testing monitoring guidelines (Printed: 21 July 97)

Record#	SITEREF	LEFT(COUNTRY,11)	LEFT(SITENAME,25)	FORMOFDATA
2	1AG002	ALGERIA	Lac Tonga	RIS
11	7AS001	AUSTRIA	Neusiedlersee, Seewinkel	RIS
12	7AS002	AUSTRIA	Donau-March-Auen	RIS
13	7AS003	AUSTRIA	Untere Lobau	RIS
14	7AS004	AUSTRIA	Stauseen am Unteren Inn	RIS
15	7AS005	AUSTRIA	Rheindelta Bodensee	RIS
16	7AS006	AUSTRIA	Pürgschachen Moor	RIS
17	7AS007	AUSTRIA	Sablatnigmoor	RIS
18	7AS008	AUSTRIA	Rotmoos im Fuschertal	RIS
19	7AS009	AUSTRIA	Hörfeld - Moor	RIS
20	1BW001	BOTSWANA	Okavango Wetland System	RIS
21	6BZ003	BRAZIL	Mamirauá	RIS
22	6BZ005	BRAZIL	Reentrancias Maranhenses	RIS
23	3BG001	BULGARIA	Srébarna	RIS
24	3BG003	BULGARIA	Atanassovo Lake	RIS
26	1CD001	CHAD	Lac Fitri	RIS
27	6CL001	CHILE	Carlos Anwandter Sanctuar	RIS
28	6CL002	CHILE	Salar de Surire	RIS
30	6CL004	CHILE	Salar de Tara	RIS
31	6CL005	CHILE	Sistema hidrológico de So	RIS
32	6CL006	CHILE	Complejo lacustre Laguna	RIS
33	6CL007	CHILE	El Yali	RIS
34	2CH007	CHINA (Hong	Mai Po Marshes and Inner	RIS
35	1ZR001	CONGO,DEMOC	Parc national des Virunga	RIS
36	1ZR002	CONGO,DEMOC	Parc national des Mangrov	RIS
37	6CS006	COSTA RICA	Humedal Caribe Noreste	RIS
38	1CI001	COTE D'IVOI	Parc national d'Azagny	RIS
39	7DK001	DENMARK	Fiil-So	RIS
40	7DK002	DENMARK	Ringkobing Fjord	RIS
41	7DK003	DENMARK	Stadil and Veststadil Fjo	RIS
47	7DK009	DENMARK	Nordre Ronner	RIS
49	7DK011	DENMARK	Randers and Mariager Fjor	RIS
50	7DK012	DENMARK	Anholt Island (waters nor	RIS
51	7DK013	DENMARK	Horsens Fjord & Endelave	RIS
52	7DK014	DENMARK	Stavns Fjord and adjacent	RIS
55	7DK017	DENMARK	South Funen Archipelago	RIS
56	7DK018	DENMARK	Sejero Bugt, Nekeselo Bug	RIS
58	7DK020	DENMARK	Karrebæk, Dybso and Avno	RIS

59	7DK021	DENMARK	Fejo and Femo Isles (wate	RIS
64	7DK026	DENMARK	Ertholmene Islands (east	RIS
66	6EC001	ECUADOR	Manglares Churute	RIS
68	1EG001	EGYPT	Lake Bardawil	RIS
69	1EG002	EGYPT	Lake Burullus	RIS
70	3EE002	ESTONIA	Alam-Pedja Nature Reserve	RIS
71	3EE003	ESTONIA	EmajΣe Suursoo Mire and P	RIS
72	3EE004	ESTONIA	Endla Nature Reserve	RIS
73	3EE005	ESTONIA	Hiiumaa Islets and KΣina	RIS
74	3EE006	ESTONIA	Muraka Nature Reserve	RIS
75	3EE007	ESTONIA	Nigula Nature Reserve	RIS
76	3EE008	ESTONIA	Puhto-Laelatu-Nehatu Wetl	RIS
77	3EE009	ESTONIA	Soomaa National Park	RIS
78	3EE010	ESTONIA	Vilsandi National Park	RIS
79	6FR009	FRANCE	Grand Cul-de-Sac Marin de	RIS
80	6FR010	FRANCE	Basse-Mana	RIS
81	7FR001	FRANCE	Camargue	RIS
82	7FR002	FRANCE	Etangs de la Champagne hu	RIS
83	7FR003	FRANCE	Etangs de la Petite Woëvr	RIS
84	7FR005	FRANCE	Golfe du Morbihan	RIS
85	7FR008	FRANCE	Etang de Biguglia	RIS
86	7FR012	FRANCE	Baie du Mont Saint-Michel	RIS
87	7FR013	FRANCE	Grande Briere	RIS
88	7FR014	FRANCE	Lac de Grand-Lieu	RIS
89	7FR015	FRANCE	Basses Vallees Angenvines	RIS
90	7FR016	FRANCE	Marais salants de Guérand	RIS
92	1GM001	GAMBIA	Baobolon Wetland Reserve	RIS
93	3GE001	GEORGIA	Central Kolkheti	RIS
95	7DE009	GERMANY	Rhein, Eltville - Bingen	RIS
96	7DE011	GERMANY	Donauauen & Donaumoos	RIS
97	7DE012	GERMANY	Lech - Donau - Winkel	RIS
99	7DE014	GERMANY	Ammersee	RIS
100	7DE015	GERMANY	Starnberger See	RIS
101	7DE016	GERMANY	Chiemsee	RIS
102	7DE017	GERMANY	Unterer Inn, Haiming - Ne	RIS
103	7DE018	GERMANY	Ostseeboddengäwasser West	RIS
104	7DE019	GERMANY	Krakower Obersee	RIS
105	7DE020	GERMANY	Ostufer Müritz	RIS
106	7DE021	GERMANY	Niederung der Untere Have	RIS
107	7DE024	GERMANY	Helmestausee Berga-Kelbra	RIS
108	7DE025	GERMANY	Galenbecker See	RIS
109	7DE026	GERMANY	Rieselfelder Münster	RIS
110	7DE027	GERMANY	Weserstaustufe Schlüsselb	RIS

111	7DE028	GERMANY	Unterer Niederrhein	RIS
112	7DE029	GERMANY	Hamburgisches Wattenmeer	RIS
114	7GR001	GREECE	Evros Delta	RIS
115	7GR002	GREECE	Lake Vistonis, Porto Lago	RIS
116	7GR004	GREECE	Nestos delta & adjoining	RIS
117	7GR005	GREECE	Lakes Volvi & Koronia	RIS
118	7GR006	GREECE	Artificial lake Kerkini	RIS
120	7GR008	GREECE	Lake Mikri Prespa	RIS
121	7GR009	GREECE	Amvrakikos gulf	RIS
122	7GR010	GREECE	Messolonghi lagoons	RIS
123	7GR011	GREECE	Kotychi lagoons	RIS
124	6GU001	GUATEMALA	Laguna del Tigre	RIS
125	6GU002	GUATEMALA	Manchón-Guamuchal	RIS
126	6GU003	GUATEMALA	Refugio de Vida Silvestre	RIS
127	1GI001	GUINEA.	Ile Alcatraz	RIS
128	1GI002	GUINEA.	Iles Tristao	RIS
129	1GI003	GUINEA.	Rio Kapatchez	RIS
130	1GI004	GUINEA.	Rio Pongo	RIS
131	1GI005	GUINEA.	Konkouré	RIS
132	1GI006	GUINEA.	Ile Blanche	RIS
134	3HU001	HUNGARY	Szaporca	RIS
135	3HU002	HUNGARY	Velence - Dinnyés	RIS
136	3HU003	HUNGARY	Kardoskút	RIS
137	3HU004	HUNGARY	Kis-Balaton	RIS
138	3HU005	HUNGARY	Mártély	RIS
139	3HU006	HUNGARY	Kiskunság	RIS
140	3HU007	HUNGARY	Pusztaszer	RIS
141	3HU008	HUNGARY	Hortobágy	RIS
142	3HU009	HUNGARY	Ocsa	RIS
143	3HU010	HUNGARY	Tata, Öreg-tó (Old Lake)	RIS
144	3HU011	HUNGARY	Lake Fertö	RIS
145	3HU012	HUNGARY	Lake Balaton	RIS
146	3HU013	HUNGARY	Bodrogzug	RIS
147	7IC003	ICELAND	Grunnafjördur	RIS
149	2IL001	ISRAEL	En Afeq	RIS
150	2IL002	ISRAEL	Hula	RIS
151	2JP001	JAPAN	Kushiro-shitsugen	RIS
152	2JP002	JAPAN	Izu-numa and Uchi-numa	RIS
153	2JP003	JAPAN	Kutcharo-ko	RIS
154	2JP004	JAPAN	Utonai-ko	RIS
155	2JP010	JAPAN	Sakata	RIS
156	2KR001	KOREA, REPU	Yongneup of Mt. Daeam, hi	RIS
157	3LV001	LATVIA	Lake Engure	RIS

234	3SV001	SLOVAK REPU	Súr	RIS
235	3SV002	SLOVAK REPU	Parízské mociare (Pariz m	RIS
236	3SV003	SLOVAK REPU	Cicovské mrtve rameno (Ci	RIS
237	3SV004	SLOVAK REPU	Senné-rybníky (Senné fish	RIS
239	3SV006	SLOVAK REPU	Dunajské luhy (Danube flo	RIS
242	1ZA013	SOUTH AFRIC	Natal Drakensberg Park	RIS
243	1ZA014	SOUTH AFRIC	Ndumo Game Reserve	RIS
244	1ZA015	SOUTH AFRIC	Seekoeivlei Nature Reserv	RIS
246	7SP002	SPAIN	Las Tablas de Daimiel	RIS
247	7SP008	SPAIN	S'Albufera de Mallorca	RIS
248	7SP009	SPAIN	Laguna de la Vega (o del	RIS
249	7SP010	SPAIN	Laguna de Villafáfila	RIS
250	7SP011	SPAIN	Complejo intermareal Umia	RIS
251	7SP012	SPAIN	Rias de Ortigueira y Ladr	RIS
252	7SP013	SPAIN	Albufera de Valencia	RIS
253	7SP014	SPAIN	Pantano de El Hondo	RIS
254	7SP015	SPAIN	Lagunas de la Mata y Torr	RIS
255	7SP016	SPAIN	Salinas de Santa Pola	RIS
256	7SP017	SPAIN	Prat de Cabanes - Torrebl	RIS
257	7SP020	SPAIN	Laguna de Manjavacas	RIS
258	7SP021	SPAIN	Lagunas de Alcázar de San	RIS
259	7SP022	SPAIN	Laguna del Prado	RIS
260	7SP023	SPAIN	Embalse de Orellana	RIS
261	7SP024	SPAIN	Complejo de Corrubedo	RIS
263	7SP036	SPAIN	Lagunas de Laguardia (Ala	RIS
264	2SR001	SRI LANKA	Bundala	RIS
265	6SM001	SURINAME	Coppenamemonding	RIS
268	7SW003	SWEDEN	Helgeån	RIS
304	1TU001	TUNISIA	Ichkeul	RIS
306	4US001	UNITED STAT	Ash Meadows	RIS
308	4US003	UNITED STAT	Izembek	RIS
309	4US004	UNITED STAT	Okefenokee	RIS
310	4US005	UNITED STAT	Everglades	RIS
313	4US008	UNITED STAT	Cache-Lower White Rivers	RIS
316	4US011	UNITED STAT	Delaware Bay	RIS
317	6UR001	URUGUAY	Bañados del Este y Franja	RIS
318	6VE001	VENEZUELA	Cuare	RIS
320	1ZM001	ZAMBIA	Kafue Flats: Lochinvar &	RIS
321	1ZM002	ZAMBIA	Bangweulu Swamps: Chikuni	RIS

Prospective (STD cream) site data for testing monitoring guidelines (Printed: 21 July 97)

Record#	SITEREF	LEFT(COUNTRY,11)	LEFT(SITENAME,25)	FORMOFDATA
1	6AR005	ARGENTINA	Laguna de Llancanelo	STD
2	5AU001	AUSTRALIA	Cobourg Peninsula	STD
3	5AU002	AUSTRALIA	Kakadu (Stage I and wetla	STD
4	5AU003	AUSTRALIA	Moulting Lagoon	STD
5	5AU004	AUSTRALIA	Logan Lagoon	STD
6	5AU005	AUSTRALIA	Sea Elephant Conservation	STD
7	5AU006	AUSTRALIA	Pittwater-Orielton Lagoon	STD
8	5AU007	AUSTRALIA	Apsley Marshes	STD
9	5AU008	AUSTRALIA	Cape Barren Island, east	STD
10	5AU009	AUSTRALIA	Lower Ringarooma River	STD
11	5AU010	AUSTRALIA	Jocks Lagoon	STD
12	5AU011	AUSTRALIA	Lake Crescent	STD
13	5AU012	AUSTRALIA	Little Waterhouse Lake	STD
14	5AU013	AUSTRALIA	Corner Inlet	STD
15	5AU014	AUSTRALIA	Barmah Forest	STD
17	5AU016	AUSTRALIA	Hattah-Kulkyne Lakes	STD
22	5AU021	AUSTRALIA	Gippsland Lakes	STD
23	5AU022	AUSTRALIA	Lake Albacutya	STD
24	5AU023	AUSTRALIA	Towra Point	STD
25	5AU024	AUSTRALIA	Kooragang	STD
26	5AU025	AUSTRALIA	The Coorong, Lake Alexand	STD
27	5AU026	AUSTRALIA	Bool and Hacks Lagoons	STD
28	5AU027	AUSTRALIA	Macquarie Marshes	STD
29	5AU028	AUSTRALIA	Coongie Lakes	STD
30	5AU029	AUSTRALIA	Riverland	STD
32	5AU031	AUSTRALIA	Ord River floodplain	STD
33	5AU032	AUSTRALIA	Lakes Argyle and Kununurr	STD
34	5AU033	AUSTRALIA	Roebuck Bay	STD
35	5AU034	AUSTRALIA	Eighty-mile Beach	STD
36	5AU035	AUSTRALIA	Forrestdale and Thomsons	STD
39	5AU038	AUSTRALIA	Vasse-Wonnerup system	STD
41	5AU041	AUSTRALIA	Moreton Bay	STD
42	5AU042	AUSTRALIA	Bowling Green Bay	STD
43	5AU040	AUSTRALIA (	Hosnie's Spring	STD
46	7BE002	BELGIUM	Schorren van de Beneden S	STD
48	7BE004	BELGIUM	De Ijzerbroeken te Diksmu	STD
49	7BE005	BELGIUM	Kalmthoutse Heide	STD
50	7BE006	BELGIUM	Marais d'Harchies	STD

OTHERS WHICH COULD HAVE BUT WERE NOT INCLUDED IN FIRST ROUND

127	3LT005	LITHUANIA	Nemunas Delta	STD
128	1MR002	MAURITANIA	Parc National du Diawling	STD
129	4ME002	MEXICO	Marismas Nacionales	STD
130	4ME003	MEXICO	Pantanos de Centla	STD
131	4ME004	MEXICO	Cuatrociénegas	STD
132	5NZ001	NEW ZEALAND	Waituna Lagoon	STD
133	5NZ002	NEW ZEALAND	Farewell Spit	STD
134	5NZ003	NEW ZEALAND	Whangamarino	STD
135	5NZ004	NEW ZEALAND	Kopuatai Peat Dome	STD
136	5NZ005	NEW ZEALAND	Firth of Thames	STD
140	6PN002	PANAMA	San San - Pond Sak	STD
141	6PN003	PANAMA	Punta Patiño	STD
142	6PE001	PERU	Paracas	STD
143	6PE002	PERU	Pacaya-Samiria	STD
144	6PE003	PERU	Lagunas de Mejía	STD
145	3PO001	POLAND	Jezioro Luknajno	STD
146	3PO002	POLAND	Slonsk Reserve	STD
148	3PO004	POLAND	Jezioro Karas	STD
149	3PO005	POLAND	Jezioro Siedmiu Wysp	STD
153	1ZA004	SOUTH AFRIC	Blesbokspruit	STD
157	1ZA010	SOUTH AFRIC	Orange River Mouth	STD
160	7SP019	SPAIN	Delta del Ebro	STD
161	7TR001	TURKEY	Göksu Deltasi	STD
162	7TR002	TURKEY	Burdur Gölü	STD
163	7TR003	TURKEY	Seyfe Gölü	STD
164	7TR004	TURKEY	Kus Gölü (Manyas)	STD
165	7TR005	TURKEY	Sultan Sazligi (Sultan Ma	STD
198	7UK033	UNITED KING	Upper Severn Estuary (par	STD
258	4US014	UNITED STAT	Connecticut River Estuary	STD
259	6VE002	VENEZUELA	Archipielago Los Roques	STD
260	6VE003	VENEZUELA	Laguna de la Restinga	STD
261	6VE004	VENEZUELA	Laguna de Tacarigua	STD
262	6VE005	VENEZUELA	Ciénaga de Los Olivitos	STD

Appendix 2

RIS Assessment for Testing Ecological Character

RIS ASSESSMENT FOR TESTING ECOLOGICAL CHARACTER

		CODE	SELECTION	LANGUAGE	
1. AFRICA					
BOTSWANA	Okavango Delta System	1BW001	(1 of) best	EN	selected
COTE D'IVOIRE	Parc national d'Azagny	1CI001	(1 of) best	FR	selected
GAMBIA	Baobolon Wetland Reserve	1GM001	Fair to Good	EN	
SENEGAL	Delta du Saloum	1SE003	Good	FR	selected
SOUTH AFRICA	Natal Drakensberg Park	1ZA013	(1 of) best	EN	selected
2. ASIA					
CHINA	Xianghai	2CH001	not evaluated	EN	selected
ISRAEL	En Afeq Nature Reserve	2IL001	(1 of) best	EN	
ISRAEL	Hula Nature Reserve	2IL002	(1 of) best	EN	selected
JAPAN	Kushiro-shitsugen	2JP001	Good	EN	selected
KOREA	The High Moor, Yongneup of Mt. Daeam	2KR001	Good	EN	
NEPAL	Koshi Tappu	2NE001	Fair to Good	EN	
PHILIPPINES	Olango Island Wildlife Sanctuary	2PH001	Fair to Good	EN	
SRI LANKA	Bundala	2SR001	(1 of) best	EN	
3. EASTERN EUROPE					
HUNGARY	Hortobagy	3HU008	not evaluated	EN	selected
GEORGIA	Wetlands of Central Kolkheti	3GE001	Fair to Good	EN	selected
LATVIA	Lake Engure	3LV001	(1 of) best	EN	selected
LATVIA	Lake Kanieris	3LV002	(1 of) best	EN	
SLOVAK REPUBLIC	Cicovské mrtve rameno	3SV003	(1 of) best	EN	selected
4. NORTH AMERICA					
CANADA	Cap Tourmente	4CN001	Fair to Good	EN	
CANADA	Whooping Crane Summer Range	4CN006	Fair to Good	EN	
CANADA	Minesing Swamp	4CN034	(1 of) best	EN	selected
CANADA	Matchedash Bay	4CN035	(1 of) best	EN	selected
MEXICO	Ria Lagartos	4ME001	Good	SP/EN*	selected
USA	Everglades	4US005	Fair [pre-hurricane]	EN	
USA	Delaware Bay	4US011	Fair	EN	
USA	Cache Lower White Rivers	4US008	Good in combination with other docs; otherwise unusable	EN	
5. OCEANIA					
AUSTRALIA	Moreton Bay	5AU041	not evaluated	EN	selected

AUSTRALIA	Kakadu (Stage I & comp. of Stage III)	5AU002	Good	EN	
AUSTRALIA	Corner Inlet	5AU013	Fair to Good	EN	
AUSTRALIA	Port Phillip Bay & Bellarine Peninsula	5AU018	Fair to Good	EN	
NEW ZEALAND	Farewell Spit	5NZ002	Good	EN	
NEW ZEALAND	Whangamarino	5NZ003	(1 of) best	EN	selected
NEW ZEALAND	Kopuatai Peat Dome	5NZ004	Very Good	EN	selected
6. NEOTROPICS					
BRAZIL	Reentrancias Maranhenses	6BZ003	(1 of) best	PO	
CHILE	Carlos Anwandter Sanctuary	6CL001	(1 of) best	EN	selected
CHILE	Sistema hidrológico de Soncor	6CL005	Good	EN	
COSTA RICA	Humedal Caribe Noreste	6CS006	(1 of) best	SP	selected
ECUADOR	Manglares Churute	6EC001	(1 of) best	SP/EN*	
FRANCE	Grand Cul-de-Sac Marin de la Guadeloupe	6FR009	(1 of) best	FR/EN*	
FRANCE	Basse-Mana	6FR010	Good	FR/EN*	
GUATEMALA	Manchón-Guamuchal	6GU002	Good	SP/EN*	selected
GUATEMALA	Ref. Vida Silv. Bocas del Polochic	6GU003	Good	SP	
PERU	Lago Titicaca (Peruvian sector)	6PE004	(1 of) best	SP	selected
PERU	Reserva Nacional de Junín	6PE005	Very Good	SP	
PERU	Santuario Nacional Los Manglares de Tumbes	6PE006	Very Good	SP	
PERU	Zona Reservada Los Pantanos de Villa	6PE007	Very Good	SP	
SURINAME	Coppenamemonding	6SM001	Good	EN	
7. WESTERN EUROPE					
AUSTRIA	Rotmoos im Fuschertal	7AS008	Good	EN	selected
AUSTRIA	Hörfeld Moor	7AS009	(1 of) best	EN	
FRANCE	Etangs de la Champagne humide	7FR002	Good	FR	selected
FRANCE	Golfe du Morbihan	7FR005	Good	FR/EN*	
FRANCE	Etang de Biguglia	7FR008	Good	FR/EN*	selected
GERMANY	Unterer Niederrhein	7DE028	Very Good	GE	
MALTA	Ghadira	7MT001	Fair to Good	EN	
PORTUGAL	Estuário do Sado	7PT007	Good	EN	
SPAIN	Lagunas de la Mata y Torrevieja	7SP013	Good	SP/EN*	
SPAIN	Salinas de Santa Pola	7SP016	(1 of) best	SP/EN*	

* Partial and/or unofficial translation.

Appendix 3

Semi – Quantitative Matrix Analysis

Semi – Quantitative Matrix Analysis

Abbreviated name	Example	Okavango 1BW001	Azagny 1CI001	Saloum 1SE003	Natal 1ZA013	Xianghai 2CH001	Hula 2IL002	Kushiro 2JP001	Hortobagy 3HU008a	Hortobagy 3HU008b	Hortobagy 3HU008c	Hortobagy 3HU008d1	Hortobagy 3HU008d2	Hortobagy 3HU008d3	Kolkheti 3GE001	Engure 3LV001
1 Country	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2 Date (or update) of compilation	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3 Reference number (for completion by Database Manager)	n/a	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4 Name and address of the compiler	4	4	4	4	5	4	5	4	5	4	4	4	4	4	5	4
5 Name of wetland	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6 Date of Ramsar designation	5	1	1	5	1	5	5	5	5	5	5	5	5	5	5	5
7 Geographical coordinates	5	5	2	5	2	5	5	5	5	5	5	5	5	5	5	5
8 General location	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4
9 Area (hectares)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
10 Wetland type	4	5	4	3	2	3	4	4	4	4	4	4	4	4	4	5
11 Altitude	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
12 Overview of site	5	5	4	5	4	3	3	5	5	4	5	4	4	4	5	5
13 Physical features	3	4	5	4	5	5	5	5	4	4	4	3	3	4	5	5
14 Ecological features	3	4	4	5	5	4	4	4	5	4	4	4	4	4	4	4
15 Land tenure/ownership of (a) site (b) surrounding area	5	5	4	5	5	5	5	4	5	5	5	5	5	5	5	5
16 Conservation measures taken	3	5	4	4	5	5	5	5	5	5	5	5	5	5	5	5
17 Conservation measures proposed but not yet implemented	3	5	5	5	3	3	4	5	5	3	5	5	3	3	5	5
18 Current land use (a) site (b) surroundings/catchment	5	5	5	3	5	5	4	5	5	5	5	5	5	5	5	5
19 Disturbances and threats	4	3	5	4	3	5	5	5	4	3	3	3	3	3	5	5
20 Hydrological and biophysical values	5	5	3	2	5	3	5	5	5	5	5	2	5	5	5	5
21 Social and cultural values	5	5	5	5	3	5	5	4	3	3	4	3	5	5	5	5
22 Noteworthy fauna	5	5	5	4	5	3	5	5	3	3	3	4	4	4	4	5
23 Noteworthy flora	5	5	5	3	5	4	3	5	3	3	3	3	3	4	5	5
24 Current scientific research and facilities	5	5	5	5	5	5	5	5	2	3	5	5	5	5	5	5
25 Current conservation education	5	5	5	5	5	5	5	5	4	4	5	5	5	5	5	5
26 Current recreation and tourism	4	4	4	5	4	4	5	5	5	5	5	5	5	5	4	5
27 Management authority	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	1
28 Jurisdiction	5	5	5	3	5	4	4	5	4	4	4	4	4	4	4	5
29 Bibliographical references	5	5	5	5	5	1	5	5	2	2	2	2	2	2	5	5
30 Justification of the criteria (reasons for inclusion)	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5
31 Map of site(to be appended)	5	3	2	2	4	1	3	4	3	3	3	3	3	3	5	4
Sum of all categories %	88.39	89.68	86.45	87.10	86.45	84.52	92.26	95.48	87.10	83.87	88.39	85.16	87.10	88.39	96.13	94.84

Key

5	Meets RIS guidelines
4	Most of the RIS guidelines are addressed
3	Some RIS guidelines are addressed
2	General statement provided
1	No information provided

Semi – Quantitative Matrix Analysis

Abbreviated name	Cicovske 3SV003	Minesing 4CN034	Matchedash 4CN035	Moreton 5AU041	Whangamarino 5NZ003	Kopuatai 5NZ004	Carlos 6CL001	Noreste 6CS006	Manchon 6GU002	Titicaca 6PE004	Lagartos 6ME001	Fuschertal 7AS008	Champagne 7FR002	Biguglia 7FR008	Sum of individual categories
1 Country	5	5	5	5	5	2	5		5	5	5	5	5	5	97 93
2 Date (or update) of compilation	5	5	5	5	5	5	5		5	5	1	5	5	5	97 24
3 Reference number (for completion by Database Manager)	5	5	5	5	5	5	5		5	5	5	5	5	5	96 55
4 Name and address of the compiler	4	4	3	4	4	4	4		4	5	3	4	4	3	81 38
5 Name of wetland	5	5	5	5	5	5	5		5	5	5	5	5	5	100 00
6 Date of Ramsar designation	1	5	5	1	5	5	5		1	1	5	1	1	1	72 41
7 Geographical coordinates	5	5	5	5	5	5	5		5	5	2	5	5	5	93 79
8 General location	4	4	4	4	4	4	3		4	5	4	4	4	4	79 31
9 Area (hectares)	5	5	5	5	5	5	5		5	5	5	5	5	5	100 00
10 Wetland type	4	4	4	4	5	5	4		5	5	4	4	4	5	82 07
11 Altitude	5	5	5	5	5	5	5		5	5	5	5	5	5	100 00
12 Overview of site	5	5	4	5	5	5	5		5	5	5	5	5	5	92 41
13 Physical features	4	3	3	5	5	5	5		4	5	5	5	5	5	87 59
14 Ecological features	5	4	4	3	5	5	5		5	4	4	5	4	4	84 83
15 Land tenure/ownership of (a) site (b) surrounding area	5	4	5	5	5	5	5		5	5	5	4	5	5	97 24
16 Conservation measures taken	5	5	5	5	5	5	5		5	5	5	5	5	5	97 24
17 Conservation measures proposed but not yet implemented	5	5	5	5	5	5	5		5	5	5	5	5	5	91 03
18 Current land use (a) site (b) surroundings/catchment	4	5	5	5	5	5	5		5	5	5	5	4	5	96 55
19 Disturbances and threats	3	5	3	4	4	4	4		5	5	5	4	5	5	82 07
20 Hydrological and biophysical values	3	5	2	5	5	4	5		2	2	5	4	5	5	84 14
21 Social and cultural values	4	5	5	5	5	5	5		3	5	5	4	5	5	90 34
22 Noteworthy fauna	4	5	5	5	5	5	5		3	5	5	5	4	3	86 90
23 Noteworthy flora	3	5	5	5	5	5	3		3	4	5	5	3	3	81 38
24 Current scientific research and facilities	5	5	5	5	5	5	5		5	5	5	5	5	5	96 55
25 Current conservation education	4	5	5	5	5	5	5		5	3	5	5	5	5	96 55
26 Current recreation and tourism	5	4	4	5	5	5	5		5	5	4	5	5	5	93 79
27 Management authority	5	5	5	5	5	5	5		5	5	5	5	5	5	96 55
28 Jurisdiction	5	4	4	5	5	5	4		5	5	5	5	5	5	90 34
29 Bibliographical references.	4	5	4	5	5	5	5		5	5	5	5	5	5	83 45
30 Justification of the criteria (reasons for inclusion).	1	2	2	5	5	5	5		5	5	5	5	5	5	91 03
31 Map of site(to be appended)	3	4	3	4	4	3	3		5	4	3	3	4	4	67 59
Sum of all categories %	83 87	91 61	86.45	92.90	97.42	94.19	93.55	0.00	89 68	92.26	90.32	91 61	91.61	91 61	

Appendix 4

Values Matrix

Values Matrix

Abbreviated name			Okavango 1BW001	Azagny 1CI001	Saloum 1SE003	Natal 1ZA013	Xianghai 2CH001	Huia 2IL002	Kushiro 2JP001	Hortobagy 3HU008a	Hortobagy 3HU008b	Hortobagy 3HU008c	Hortobagy 3HU008d1	Hortobagy 3HU008d2	Hortobagy 3HU008d3	Kolkheti 3GE001	Engure 3LV001	Cicovska 3SV003	Minesing 4CN034
Categories	**Values**	**Example**																	
Categories Total																			
Water regime	Water supply			x		x			x										
	Water purification								x					x				x	
	Water storage (catchments or basins)	x				x			x	x	x	x							
	Stabilisation of local climate conditions (rainfall & temperature)						x												
	Storm protection and flood mitigation	x		x				x		x	x	x				x		x	x
	Shoreline stabilisation and erosion control																		
	Regulation of river or streamflow patterns & water levels		x			x			x										x
	Groundwater recharge	x														x			x
	Groundwater discharge															x			
	Retention of nutrients							x											
	Retention of sediments	x	x					x				x					x		
Exploitation and production	Fisheries	x	x		x		x	x	x	x		x							
	Agriculture		x		x						x		x			x	x	x	
	Grazing				x		x									x			
	Timber production			x							x		x	x	x				
	mammals		x	x								x				x	x		
	Plant products (food, crafts, housing, industry)		x		x		x			x	x	x					x		
	Mining production (salt)																		
Natural heritage	Scientific research & education	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Recreation and tourism opportunities	x	x	x	x	x	x	x	x	x		x				x	x	x	x
	Rare, vulnerable or endangered species	x	x	x		x	x	x	x	x	x		x	x	x	x	x	x	x
	Biological diversity & richness	x	x	x	x	x	x		x			x							
	Habitat is required for critical stage of plant or animals biological cycle					x	x									x			
	Endemic species		x	x		x	x		x				x	x	x	x	x	x	x
	Provides habitat for wildlife, especially waterfowl	x		x	x	x	x		x	x	x	x							
	Medicinal plant material		x																
Cultural heritage	Traditional lifestyles	x	x	x															
	Archaeological site	x				x													
	Historical buildings/ sites/trading routes	x	x													x			
	Total number of values identified at a site	13	14	11	8	11	11	7	11	8	7	10	7	9	7	14	10	8	8

Key

X Number of occurrences

Values Matrix

Abbreviated name		Matchedash	Moreton	Whangamarino	Kopuatai	Carlos	Noreste	Manchon	Titicaca	Lagartos	Fuschertal	Champagne	Biguglia	Total	
Categories	Values	4CN036	5AU041	6NZ003	6NZ004	6CL001	6CS006	6GU002	6PE004	6ME001	7AS008	7FR002	7FR008	number of values	Total of categories
Categories Total															
Water regime	Water supply								x	x		x		7	
	Water purification					x							x	4	
	Water storage (catchments or basins)													6	
	Stabilisation of local climate conditions (rainfall & temperature)								x					2	
	Storm protection and flood mitigation	x		x	x							x		13	
	Shoreline stabilisation and erosion control												x	1	
	Regulation of river or streamflow patterns & water levels	x										x		8	
	Groundwater recharge													3	
	Groundwater discharge													1	
	Retention of nutrients					x								2	
	Retention of sediments			x	x	x				x	x			11	56
Exploitation and production	Fisheries		x	x	x			x	x	x		x	x	19	
	Agriculture			x	x				x	x	x	x	x	11	
	Grazing				x	x		x	x	x		x		11	
	Timber production											x		5	
	mammals			x	x				x		x	x	x	9	
	Plant products (food, crafts, housing, industry)								x			x		8	
	Mining production (salt)							x		x				2	65
Natural heritage	Scientific research & education	x	x	x	x	x		x	x	x	x	x	x	29	
	Recreation and tourism opportunities	x	x	x	x	x		x	x	x	x	x	x	25	
	Rare, vulnerable or endangered species	x	x	x	x	x		x		x	x	x	x	26	
	Biological diversity & richness	x	x	x	x	x		x	x	x	x	x	x	26	
	Habitat is required for critical stage of plant or animals biological cycle		x	x	x			x						7	
	Endemic species			x	x				x					13	
	Provides habitat for wildlife, especially waterfowl		x	x		x		x	x	x		x	x	23	
	Medicinal plant material											x		2	151
Cultural heritage	Traditional lifestyles		x	x	x							x		7	
	Archaeological site		x	x						x		x		7	
	Historical buildings/ sites/trading routes	x	x	x	x	x				x	x	x		13	27
	Total number of values identified at a site	7	10	15	14	10		9	12	13	8	18	10		

Appendix 5

Threats Matrix

Threats Matrix

Abbreviated name			Okavango 1BW001	Azagny 1CI001	Saloum 1SE003	Natal 1ZA013	Xianghai 2CH001	Hula 2IL002	Kushiro 2JP001	Hortobagy 3HU008a	Hortobagy 3HU008b	Hortobagy 3HU008c	Hortobagy 3HU008d1	Hortobagy 3HU008d2	Hortobagy 3HU008d3	Kolkheti 3GE001	Engure 3LV001	Cicovske 3SV003	Minesing 4CN034
Category	Threats/issues	Example																	
Water Regime	Drought							1					1	1	1				
	Water abstraction		1																
	Reclamation (drainage)															1			
	Water diversion																		
	Declining water levels																		
	Irrigation							1											
Water Pollution	Solid waste-refuse																		
	Sewage-faecal							1										1	
	Eutrophication																		
	Algal blooms																	1	
	Industrial waste water																	1	
	Mining/mining wastes																		
	Pesticides (chemical)							1	1		1	1						1	
	Fertilisers (natural & man-made)							1	1		1	1						1	
	Salinisation																		
Physical Modifications	Erosion/erosion control					1			1										
	Afforestation (exotics)					1													
	Exotic weed intrusion	1				1		1											1
	Exotic fauna intrusion							1	1								1	1	
	Forest clearance			1					1							1	1		
	Monoculture development															1	1		
	Loss of nesting sites																1	1	
	Fires			1													1		
	Natural disasters																		
	Sedimentation							1										1	1
	Infrastructure/housing/ developments	1						1											1
	Peat extraction															1			
	Coral and sand extraction																		
	Recreational activities							1											1
	Agriculture/agricullural expansion	1		1	1	1	1												
Exploitation & Production	Fishing				1		1			1						1	1		
	Mollusc harvesting				1														
	Bird egg harvesting				1														
	Marine turtle egg harvesting				1														
	Bird/mammal hunting															1			
	Poaching			1															1
	Native plant extraction																		
	Grazing				1	1	1						1						
Miscellaneous	Lack of specialist staff																1		
	Changes in land use																		1
	Health issues																		
	Total number of threats identified at a site	3	1	4	6	5	3	10	5	1	2	2	2	1	1	5	6	8	6

Key

1 Number of occurrences

Threats Matrix

Abbreviated name		Matchedash	Moreton	Whangamarino	Kopuatai	Carlos	Noreste	Manchon	Titicaca	Lagartos	Puschertal	Champagne	Biguglia	Total number of threats	Total of categories
Category	Threats/Issues	4CN035	5AU041	5NZ003	5NZ004	6CL001	6CS006	6GU002	6PE004	6ME001	7AS008	7FR002	7FR008		
Water Regime	Drought								1					5	
	Water abstraction		1		1						1			1	
	Reclamation (drainage)													4	
	Water diversion			1				1						1	
	Declining water levels													1	
	Irrigation													1	13
Water Pollution	Solid waste-refuse										1			2	
	Sewage-faecal		1						1					3	
	Eutrophication		1						1					3	
	Algal blooms		1						1				1	3	
	Industrial waste water			1					1	1				3	
	Mining/mining wastes							1					1	3	
	Pesticides (chemical)							1			1		1	8	
	Fertilisers (natural & man-made)								1					1	33
	Salinisation				1	1								4	
Physical Modifications	Erosion/erosion control					1								2	
	Afforestation (exotics)			1	1	1								7	
	Exotic weed intrusion					1								5	
	Exotic fauna intrusion							1						5	
	Forest clearance								1			1		4	
	Monoculture development													1	
	Loss of nesting sites			1	1				1	1				5	
	Fires									1				1	
	Natural disasters													3	
	Sedimentation													10	
	Infrastructure/housing/ developments	1	1	1		1		1				1	1	2	
	Peat extraction				1									1	
	Coral and sand extraction		1											4	
	Recreational activities	1										1		7	61
	Agriculture/agricultural expansion							1		1				7	
Exploitation & Production	Fishing	1						1						1	
	Mollusc harvesting								1					2	
	Bird egg harvesting													2	
	Marine turtle egg harvesting							1						4	
	Bird/mammal hunting	1							1				1	3	
	Poaching							1						2	
	Native plant extraction							1	1					7	28
	Grazing			1							1	1		1	
Miscellaneous	Lack of specialist staff													1	
	Changes in land use													1	3
	Health issues												1		
	Total number of threats identified at a site	4	7	6	5	5	0	10	12	4	4	4	6		

Appendix 6

Monitoring and Baseline Matrix - Values

Monitoring and Baseline Matrix – Values

Abbreviated name			Okavango 1BW001	Azagny 1CI001	Saloum 1SE003	Natal 1ZA013	Xianghai 2CH001	Hula 2IL002	Kushiro 2JP001	Hortobagy 3HU008a	Hortobagy 3HU008b	Hortobagy 3HU008c	Hortobagy 3HU008d1	Hortobagy 3HU008d2	Hortobagy 3HU008d3	Kolkheti 3GE001	Engure 3LV001	Cicovske 3SV003	Mlnesing 4CH034
Categories	**Values**	**Example**																	
Water regime	Water supply			•		•			•										
	Water purification								•					•				•	
	Water storage (catchments or basins)	•				●			•	•	•	•							
	Stabilisation of local climate conditions (rainfall & temperature)						●												
	Storm protection and flood mitigation	•		•				•		•	•	•				•			●
	Shoreline stabilisation and erosion control																	•	
	Regulation of river or streamflow patterns & water levels		●																
	Groundwater recharge	•				•			•							●			•
	Groundwater discharge															•			•
	Retention of nutrients							•											
	Retention of sediments	•	•					•											
Exploitation and production	Fisheries	•	•		•		•	•	•	•		•		•			•		
	Agriculture		•		•											•	●	•	
	Grazing				•		•				•		•	•	•	•			
	Timber production			•						•						•			
	Hunting waterfowl & mammals		●	•								•				•	•		
	Plant products (food, crafts, housing, industry)		•		•		•										●		
	Mining production (salt)									•	•	•							
Natural heritage	Scientific research & education	●	●	•	●	●	●	●	●	•	•	•	•	•	•	•	●	●	●
	Recreation and tourism opportunities	•	•	•	●	●	•	● □	●	•		•							
	Rare, vulnerable or endangered species	•	●	●		●	•	●	●	•	•		•	•	•	•	•	•	•
	Biological diversity & richness	●	●	●	●	● □	●		● □	•	•	•	•	•	•	●	●	•	●
	Habitat is required for critical stage of plant or animals biological cycle					•	•										● □	●	●
	Endemic species		•	•		●	•		•							•			
	Provides habitat for wildlife, especially waterfowl	•		•	•	•	•		•	•	•	•	•	•	•	•	•	•	
	Medicinal plant material		•																
Cultural heritage	Traditional lifestyles	●	●	●															
	Archaeological site	●																	
	Historical buildings/ sites/trading routes	●	●			●										●			●

Key

● Baseline information provided

□ Monitoring information is provided

• Value or threat is present, no baseline or monitoring information supplied

Monitoring and Baseline Matrix – Values

Abbreviated name		Matchedash 4CN036	Moreton 5AU041	Whangamarino 6NZ003	Kopuatai 6NZ004	Carlos 6CL001	Noreste 6CS006	Manchon 6GU002	Titicaca 6PE004	Lagartos 6ME001	Fuschertal 7AS008	Champagne 7FR002	Biguglia 7FR008
Categories	Values												
Water regime	Water supply												
	Water purification												
	Water storage (catchments or basins)												
	Stabilisation of local climate conditions (rainfall & temperature)												
	Storm protection and flood mitigation												
	Shoreline stabilisation and erosion control												
	Regulation of river or streamflow patterns & water levels												
	Groundwater recharge												
	Groundwater discharge												
	Retention of nutrients												
	Retention of sediments												
Exploitation and production	Fisheries												
	Agriculture												
	Grazing												
	Timber production												
	Hunting waterfowl & mammals												
	Plant products (food, crafts, housing, industry)												
	Mining production (salt)												
Natural heritage	Scientific research & education												
	Recreation and tourism opportunities												
	Rare, vulnerable or endangered species												
	Biological diversity & richness												
	Habitat is required for critical stage of plant or animals biological cycle												
	Endemic species												
	Provides habitat for wildlife, especially waterfowl												
	Medicinal plant material												
Cultural heritage	Traditional lifestyles												
	Archaeological site												
	Historical buildings/ sites/trading routes												

Appendix 7

Monitoring and Baseline Matrix - Threats

Monitoring and Baseline Matrix – Threats

Abbreviated name			Okavango 1BW001	Azaqny 1CI001	Saloum 1SE003	Natal 1ZA013	Xianghai 2CH001	Huia 2IL002	Kushiro 2JP001	Hortobagy 3HU008a	Hortobagy 3HU008b	Hortobagy 3HU008c	Hortobagy 3HU008d1	Hortobagy 3HU008d2	Hortobagy 3HU008d3	Kolkheti 3GE001	Engure 3LV001	Cicovske 3SV003	Minesing 4CN034	Matchedash 4CN035	Moreton 5AU041
Category	Threats/issues	Example																			
Water Regime	Drought							● □							●						
	Water abstraction		•																		
	Reclamation (drainage)																				
	Water diversion															•					•
	Declining water levels																				
	Irrigation							●													
Water Pollution	Solid waste-refuse																				
	Sewage-faecal							• □										•			
	Eutrophication																				•
	Algal blooms																	•			•
	Industrial waste water																	•			•
	Mining/mining wastes																				•
	Pesticides (chemical)							• □	•		•	•									
	Fertilisers (natural & man-made)							• □	•		•	•						•			
	Salinisation																	•			
Physical Modifications	Erosion/erosion control					•			•												
	Afforestation (exotics)					•															
	Exotic weed intrusion	●				•		●													
	Exotic fauna intrusion							●	●								●	●	●		
	Forest clearance			•					•							•	•				
	Monoculture development																				
	Loss of nesting sites																				
	Fires			●																	
	Natural disasters																				
	Sedimentation							•													
	Infrastructure/housing/ developments	●						•													
	Peat extraction																				
	Coral and sand extraction															•					
	Recreational activities							•													●
	Agriculture/agricultural expansion	●		•	•	●	•											•	•		
Exploitation & Production	Fishing				•		•			•											
	Mollusc harvesting				•											•	●			•	
	Bird egg harvesting				•																
	Marine turtle egg harvesting				•																
	Bird/mammal hunting																				
	Poaching			•												•				•	
	Native plant extraction																			•	
	Grazing				•	•	•								•						
Miscellaneous	Lack of specialist staff																				
	Changes in land use																●				
	Health issues																		•		

Key

● Baseline information provided
□ Monitoring information is provided
• Value or threat is present, no baseline or monitoring information supplied

Monitoring and Baseline Matrix – Threats

Abbreviated name		Whangamarino 5NZ003	Kopuatai 5NZ004	Carlos 8CL001	Noreste 8CS006	Manchon 8GU002	Titicaca 8PE004	Lagartos 8ME001	Fuschertal 7AS006	Champagne 7FR002	Bigugila 7FR008
Category	Threats/issues										
Water Regime	Drought						●				
	Water abstraction										
	Reclamation (drainage)		•						•		
	Water diversion					•					
	Declining water levels	●									
	Irrigation										
Water Pollution	Solid waste-refuse								•		
	Sewage-faecal						•				
	Eutrophication						●				
	Algal blooms						●				
	Industrial waste water						•				•
	Mining/mining wastes	●					•	•			
	Pesticides (chemical)					• □					•
	Fertilisers (natural & man-made)					• □			•		•
	Salinisation						●				
Physical Modifications	Erosion/erosion control		•	•							
	Afforestation (exotics)			•							
	Exotic weed intrusion	●	•	●							
	Exotic fauna intrusion			●							
	Forest clearance					•					
	Monoculture development						•			•	
	Loss of nesting sites										
	Fires	•	•				•	•			
	Natural disasters							•			
	Sedimentation										
	Infrastructure/housing/ developments	●		•		•					
	Peat extraction		•							•	•
	Coral and sand extraction										
	Recreational activities										
	Agriculture/agricultural expansion									•	
Exploitation & Production	Fishing					•		•			
	Mollusc harvesting										
	Bird egg harvesting						•				
	Marine turtle egg harvesting					•					
	Bird/mammal hunting						•				•
	Poaching					•					
	Native plant extraction					•	●				
	Grazing	●							•	•	
Miscellaneous	Lack of specialist staff										
	Changes in land use										
	Health issues										•