

1. FIELDWORK BRIEF

During the fieldwork a total of 36 waterbodies at six sites across the Falkland Islands were surveyed. At each location several representative waterbodies were included (Figure 1). A detailed overview of all locations is available in Annex 1. Six Ramsar wetland types were covered during this fieldwork season; example images of each wetland type are given in Annex 2:

- M Permanent River / Stream
- O Permanent Freshwater Lake
- Q Permanent Brackish Lake
- R Seasonal Brackish Lake
- Sp Permanent Brackish / Saline Pond
- Tp Permanent Freshwater Pond

At three of the waterbodies data loggers for long-term monitoring were deployed (Figure 1). Two of these logger stations now monitor water table, water temperature and light level; the third station records these variables as well as pH and conductivity. A further three logger stations will be deployed in the beginning of project year 2.

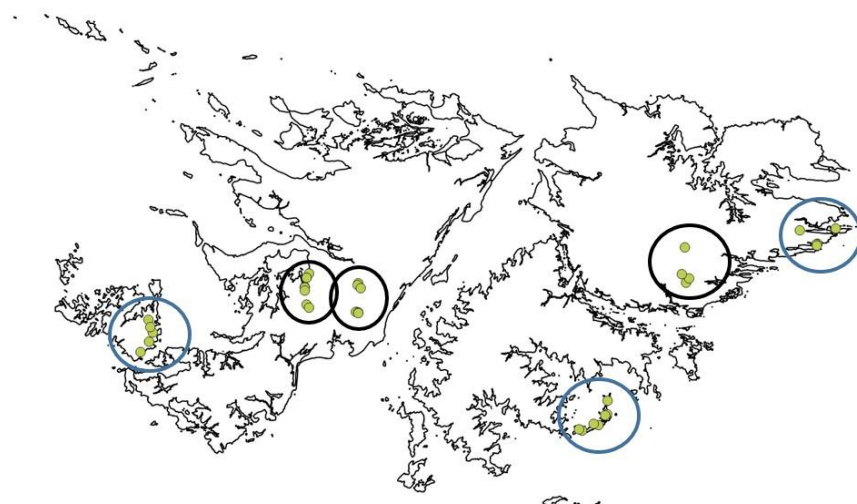


Figure 1: Map of the Falkland Islands highlighting fieldwork sites; at sites circled in blue, data loggers for long-term monitoring were deployed.

2. METHODOLOGY

At each waterbody a full site description was completed and included waypoint, bed material, water depth, and presence of birds, fish and vegetation. In-situ measurements comprised of pH, conductivity, dissolved oxygen, water temperature and salinity. Water samples were collected for local lab work (particulate organic matter, alkalinity, chlorophyll), lab work in the UK (phosphate, chloride, silica, sulphate, aluminium, calcium, iron, magnesium, potassium and sodium) and a 40 ml water sample was placed in the freezer for possible additional analyses. Invertebrates were collected and preserved in 70% ethanol and 5% glycerine, foam was collected for potential chironomid pupa cases, and samples for diatoms (either from stones or with sediment or with vegetation) were collected as well. Diatom samples were preserved in 100% ethanol. An example of the field recording sheet is available in Annex 3.

ANNEX 1 – LOCATION OVERVIEW

Table 1: List of waterbodies visited during the February to April 2021 field work season. Distinction between freshwater, brackish and saline was based on the following thresholds: Freshwater < 1 ppt salinity, brackish < 30 ppt salinity, saline > 30 ppt salinity.

Date	Site	Farm	Waterbody name	Ramsar Code	Ramsar Wetland Type
08/02/2021	Site 1	Lakelands	Unknown	Q	Permanent Brackish Lake
08/02/2021	Site 1	Lakelands	Unknown	Sp	Permanent Brackish Pond
08/02/2021	Site 1	Lakelands	Unknown	Sp	Permanent Brackish Pond
08/02/2021	Site 1	Lakelands	Unknown	Sp	Permanent Brackish Pond
11/02/2021	Site 1	Philomel	Hawks Nest Pond North	O	Permanent Freshwater Lake
11/02/2021	Site 1	Philomel	Hawks Nest stream	M	Permanent Stream
11/02/2021	Site 1	Philomel	Hawks Nest Pond South	Q	Permanent Brackish Lake
09/02/2021	Site 2	Shallow Harbour	Doyle River	M	Permanent River
09/02/2021	Site 2	Doyle	Unknown	Sp	Permanent Brackish Pond
09/02/2021	Site 2	Doyle	Unknown	Sp	Permanent Brackish Pond
10/02/2021	Site 2	Doyle	Unknown	Tp	Permanent Freshwater Pond
10/02/2021	Site 2	Doyle	Unknown	Tp	Permanent Freshwater Pond
10/02/2021	Site 2	Doyle	Lake Sullivan North	O	Permanent Freshwater Lake
10/02/2021	Site 2	Lake Sullivan	Unknown	O	Permanent Freshwater Lake
10/02/2021	Site 2	Lake Sullivan	Lake Sullivan South	O	Permanent Freshwater Lake
26/02/2021	Site 3	Stanley Common	Mile Pond	O	Permanent Freshwater Lake
26/02/2021	Site 3	Stanley Common	Round Pond	Q	Permanent Brackish Lake
26/02/2021	Site 3	Stanley Common	Small add-on to Round Pond	Sp	Permanent Brackish Pond
26/02/2021	Site 3	Stanley Common	Yorke Bay Pond	Tp	Permanent Freshwater Pond
06/04/2021	Site 3	Stanley Common	Moody Brook	M	Permanent Stream
19/03/2021	Site 4	Fitzroy (MPA)	Sand Pond	Q	Permanent Brackish Lake
19/03/2021	Site 4	Fitzroy (MPA)	Champina Pond	O	Permanent Freshwater Lake
19/03/2021	Site 4	Fitzroy River (MPA)	Colorado Pond	O	Permanent Freshwater Lake
19/03/2021	Site 4	Fitzroy River (MPA)	Old House Pond	R	Seasonal Brackish Lake
28/03/2021	Site 5	Weddell	Tern Hill Stream	M	Permanent Stream
28/03/2021	Site 5	Weddell	Penguin Cove Stream	M	Permanent Stream
28/03/2021	Site 5	Weddell	New Year's Cove Stream	M	Permanent Stream
28/03/2021	Site 5	Weddell	Fisherman's Creek	M	Permanent Stream
29/03/2021	Site 5	Weddell	Kelp Creek Stream	M	Permanent Stream
30/03/2021	Site 6	Bleaker	Big Pond	Q	Permanent Brackish Lake

30/03/2021	Site 6	Bleaker	Long Grass Valley Pond	Sp	Permanent Brackish Pond
30/03/2021	Site 6	Bleaker	Small Pond	Sp	Permanent Brackish Pond
30/03/2021	Site 6	Bleaker	Coot Pond	Sp	Permanent Saline Pond
30/03/2021	Site 6	Bleaker	Ram Paddock Pond	Sp	Permanent Brackish Pond
31/03/2021	Site 6	Bleaker	Wineglass Point Pond	Sp	Permanent Brackish Pond
31/03/2021	Site 6	Bleaker	Centre Camp Pond	Sp	Permanent Brackish Pond

ANNEX 2 – LOCATION IMAGES



Figure 2: Example 1/2 of 'Permanent Freshwater River / Stream' (Ramsar Code M), above water left, underwater right. Kelp Creek Stream, Weddell Island.



Figure 3: Example 2/2 of 'Permanent Freshwater River / Stream' (Ramsar Code M), above water left, underwater right. Doyle River, Shallow Harbour.

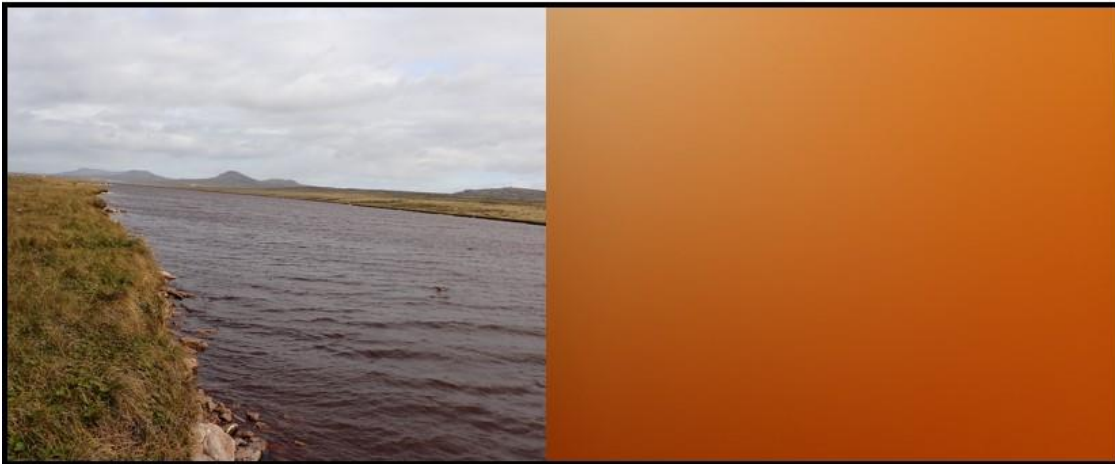


Figure 4: Example 1/2 of 'Permanent Freshwater Lake' (Ramsar Code O), above water left, underwater right. Mile Pond, Stanley Common.



Figure 5: Example 2/2 of 'Permanent Freshwater Lake' (Ramsar Code O), above water left, underwater right. Lake Sullivan North, Doyle Farm.



Figure 6: Example 1/2 of 'Permanent Brackish Lake' (Ramsar Code Q), above water left, underwater right. Round Pond, Stanley Common.



Figure 7: Example 2/2 of 'Permanent Brackish Lake' (Ramsar Code Q), above water left, underwater right. Big Pond, Bleaker Island.

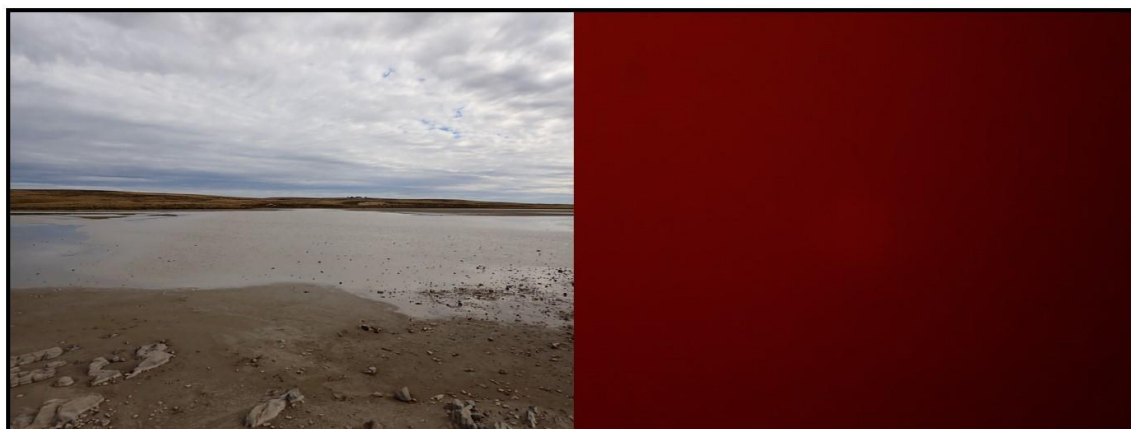


Figure 8: Example 1/1 of 'Seasonal Brackish Lake' (Ramsar Code R), above water left, underwater right. Old House Pond, Fitzroy River.

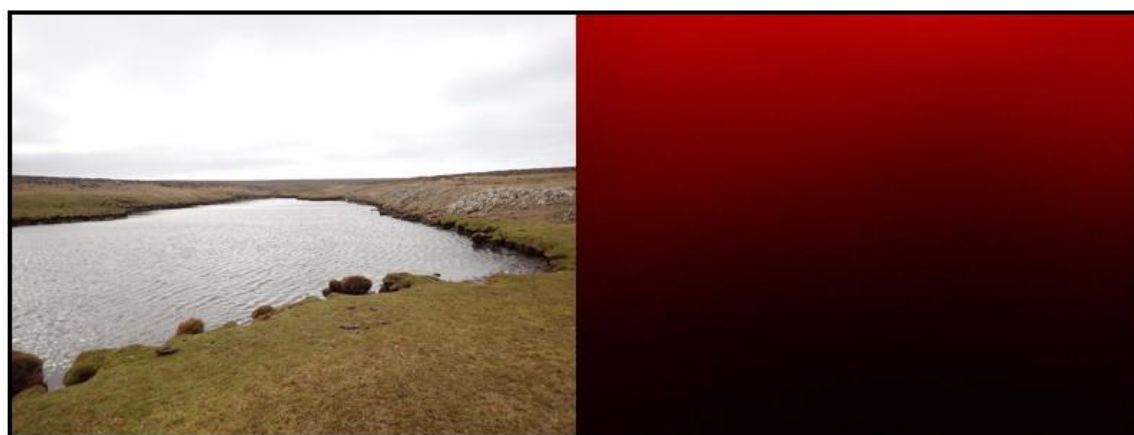


Figure 9: Example 1/2 of 'Permanent Brackish Pond' (Ramsar Code Sp), above water left, underwater right. Long Grass Valley Pond, Bleaker Island.

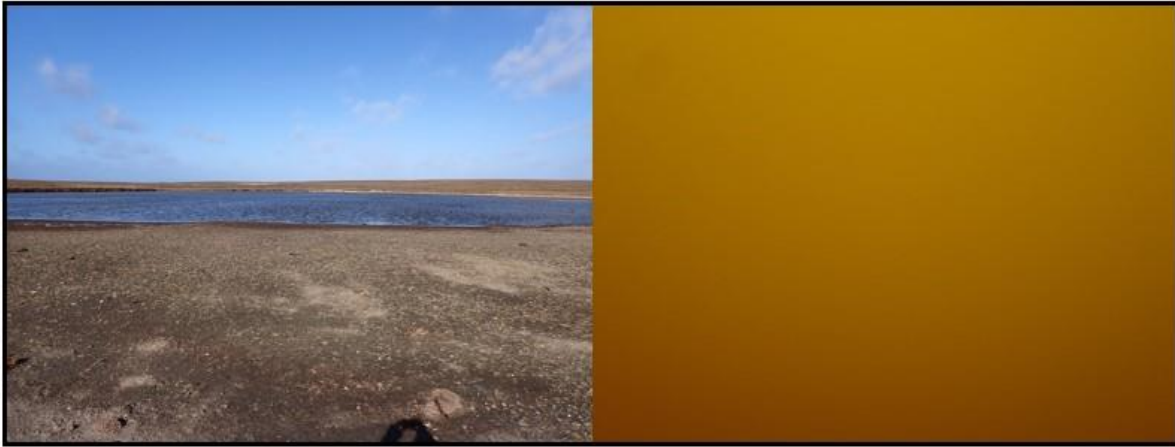


Figure 10: Example 2/2 of 'Permanent Brackish Pond' (Ramsar Code Sp), above water left, underwater right. Centre Camp Pond, Bleaker Island.



Figure 11: Example 1/2 of 'Permanent Freshwater Pond' (Ramsar Code Tp), above water left, underwater right. Unnamed Pond, Doyle Farm.



Figure 12: Example 2/2 of 'Permanent Freshwater Pond' (Ramsar Code Tp), above water left, underwater right. Yorke Bay Pond, Stanley Common.

