

# Environment Bay of Plenty's Freshwater Wetland Database

Environment Bay of Plenty's Freshwater Wetland Database holds data relating to freshwater wetlands, collected at different times for purposes including from SNA and PNA reports and field visits. The database has been migrated from Access to dot.net.

Below are screen shots of the main interface. The database also provides tabs for other values (recreational, cultural etc), Hydrology, and Land cover (catchment analysis, how much land forested etc).

The database has some spatial integration enabling some linking between maps and site records, and vice versa.

The system uses the data depreciation system described in the showcase item EBoP System Manages Data Quality Ratings and Depreciation to deal with data of different quality and collected for different reasons using different methods by different people.

## Sites

The screenshot shows a web-based interface for the 'Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve'. The interface includes a menu bar with options like Add, Edit, Save, Delete, Cancel, Previous, Next, Maintenance, Map, and Exit. Below the menu bar, there are input fields for 'Lower Kaituna Wildlife Management Res', 'Wetland Id' (146), 'Altitude (m)', 'Size (ha)', and a 'Quick Search' dropdown set to 'lower' with a 'Go' button. The main content area is divided into several sections: 'Site Details' with 'Site Name' (Lower Kaituna Wildlife Management Reserve), 'Survey Date', and 'Grid Reference'; 'Alternate Names' with a list of names; 'Legal Protection' with a table of 'LegislationAct', 'LegislationSection', 'Source', 'ModifiedOn', and 'ModifiedBy'; 'DOC Conservancy', 'DOC Area Office' (121 | Tauranga | 23/05/2008 4:25:30), 'Territorial Authority', and 'Fish And Game'; 'Ecological Framework', 'HydroSystem' (Palustrine - R...), 'Reference' (A wetland that is both palustrine and riverine but is palustrine dominant), and 'Side Notes'.

Several of the fields are populated spatially (DOC Conservancy, Fish and Game, Ecological frameworks = Ecological District, LENZ...).

## Ecological Importance

Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve

Lower Kaituna Wildlife Management Res | Wetland Id 146 | Altitude (m) | Size (ha) | Quick Search lower | Go

Site: Ecological Importance | Management/Monitoring | Species | Pests | Threats | Ecology | Tenure | Consents

| Agency                     | Document   |
|----------------------------|--|
| Department of Conservation | Wetlands of Ecological and Representative Importance (WERI) Database   |
| Department of Conservation | Wildlife and Wildlife Habitat in the Bay of Plenty Region (Rasch 1989) |
| Environment Bay of Plenty  | Operative Regional Land Management Plan (2002)                         |

Add Document

Document Name: Wetlands of Ecological and Representative Importance (WERI) Database

Importance: Wetlands of Ecological and Representative Importar

Importance Criteria: Assessed against the following criteria: (i) Wetlands of national or regional significance i.e. general examples of the type of wetland that is characteristic of the region or supporting rare, vulnerable or endangered species or having particular value in maintaining ecological diversity or particular species, including areas suitable for listing under the Ramsar Convention. (ii) Other representative wetlands characteristic of particular ecological regions. (iii) Unique areas that are a typical of particular ecological regions. (iv) Wetlands that are important in the biological cycles of rare or threatened species.

Reference:

Levels: Importance Level | Level Criteria

Includes any document the site has been identified in and whatever ranking system and rank it go. Also describes the assessment criteria.

## Management/Monitoring

The screenshot shows a software window titled "Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve". The interface includes a menu bar with options like Add, Edit, Save, Delete, Cancel, Previous, Next, Maintenance, Map, and Exit. Below the menu bar, there are search fields for "Wetland Id" (146), "Altitude (m)", "Size (ha)", and a "Quick Search" field with the value "lower" and a "Go" button.

The main content area is divided into two sections: "Management" and "Monitoring".

**Management Section:**

|    | Management Agency          | Management Type      | Contact   |
|----|----------------------------|----------------------|---|
| 14 | Department of Conservation | Fencing              | Craig Summers, Programme Management Biodiversity, Tauranga Office DOC, 253 Chad |
| 15 | Department of Conservation | Pest Plant Control   | Craig Summers, Programme Management Biodiversity, Tauranga Office DOC, 253 Chad |
| 16 | Eastern Region Fish & Game | Enhancement Planting | John Meikle   |
| 17 | Eastern Region Fish & Game | Recreational Use     | John Meikle   |
| 18 | Eastern Region Fish & Game | Flood Management     | John Meikle   |
| 19 | Environment Bay of Plenty  | Flood Management     |   |
| 20 | Environment Bay of Plenty  | Flood Management     |   |
| 21 | Eastern Region Fish & Game | Recreational Use     | John Meikle   |

**Monitoring Section:**

|   | Monitoring Agency          | Monitoring Type      | Monitoring Method | Contact   | Report L |
|---|----------------------------|----------------------|-------------------|---|----------|
| 5 | Department of Conservation | Weed Monitoring      | 0                 | Sarah Crump, Conservancy Office, 99 Sala St Rotorua   |          |
| 6 | Department of Conservation | Vegetation Condition | 0                 | Paul Cashmore, Conservancy Office, 99 Sala St Rotorua |          |
| 7 | Environment Bay of Plenty  | Water Level          | 0                 | Dana Thompson, Tech Services                          |          |
| 8 | Environment Bay of Plenty  | Vegetation Condition | 0                 | Nancy Willems, Envmtal Investigations                 |          |

Both sections have a "Details" pane on the right. The Management details pane contains the text: "Details Boundary fencing, weed control, mulching around walkways and dredging of drains". The Monitoring details pane is currently empty.

Includes the frequency of monitoring and will link to relevant reports, documents, spreadsheets. The addition of reminders is planned.

## Species

## Species

Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve

Lower Kaituna Wildlife Management Res | Wetland Id 146 | Altitude (m) | Size (ha) | Quick Search lower | Go

Site | Ecological Importance | Management/Monitoring | **Species** | Pests | Threats | Ecology | Tenure | Consents

Plants

Drag a column header here to group by that column.

| Genus | Species    | Sub Species | Common Name   |
|-------|------------|-------------|---|
| Typha | orientalis |             | Bulrush,Raupo,Broadleaf cumbungi,Koare,Karito,Kopungawha,Kopungawha,N |

Notes

Animals

Drag a column header here to group by that column.

| TaxonomicGroup | CommonName                      | ScientificName        | DocThreatClassification | DocClassification |
|----------------|---------------------------------|-----------------------|-------------------------|-------------------|
| Bird           | New Zealand Kingfisher (Kotare) | Halcyon sancta vagans | Not Threatened          | N                 |

Notes

The plants list links to the Landcare Plants database so we always get the right names. Also includes threat classifications.

Pests

## Pests

The screenshot shows the 'Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve' application. The interface includes a menu bar with options like Add, Edit, Save, Delete, Cancel, Previous, Next, Maintenance, Map, and Exit. Below the menu bar, there are search filters for Site (Lower Kaituna Wildlife Management Res), Wetland Id (146), Altitude (m), Size (ha), and a Quick Search field set to 'lower' with a 'Go' button. The main content area is divided into two sections: 'Pest Plants' and 'Pest Animals'. The 'Pest Plants' section contains a table with columns for Common Name, Genus, Species, Sub Species, PestThreatRanking, Status, Coverage, DataDepreciationId, and DataDepreciation. One entry is visible: Grey sallow, grey willow (Salix cinerea) with a PestThreatRanking of N/A, Status of Exotic, Coverage of 0, DataDepreciationId of 49, and DataDepreciation of 8. To the right of this table are 'Notes' and 'Ranking Definition' fields. The 'Pest Animals' section contains a table with columns for TaxonomicGroup, CommonName, ScientificName, PestThreatRanking, and Definition. One entry is visible: Mammals (Rabbit, Oryctolagus cuniculus) with a PestThreatRanking of 'RPMS Population Control - Animals' and a Definition of 'This is to manage pest animals of high ir'. To the right of this table are 'Notes' and 'Ranking Definition' fields, with the latter containing the text: 'This is to manage pest animals of high incidence throughout the region, and with a serious adverse effects.'

Includes Regional Pest Management Strategy or National Pest Plant accord designations for some pests.

## Threats

## Threats

Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve

Add Edit Save Delete Cancel Previous Next Maintenance Map Exit

Lower Kaituna Wildlife Management Res Wetland Id 146 Altitude (m) -1 Size (ha) Survey Date 17/11/2004 Quick Search lower Go

Site Ecological Importance Management/Monitoring Species Pests Threats Ecology Tenure Consents

**Hydrological**

| Threat Category Type       | Rating |
|----------------------------|--------|
| Impeded hydro connectivity | High   |
| Unknown                    | Medium |
| 39                         | Medium |
| 41                         | Medium |
| 43                         | Medium |

Notes: Man-made Channels. Stopbank. Hydrological connections reduced. Fish passage rating medium. Drains surround kahikatea. Limited connections with Kaituna River stand.

**Water Quality**

| Threat Category Type | Rating |
|----------------------|--------|
|----------------------|--------|

Notes:

**Ecological**

| Threat Category Type                    | Rating       |
|---|--------------|
| Vegetation/Habitat Clearance - Adjacent | High         |
| Pests - Animals - Terrestrial           | [Unassigned] |
| Pests - Plants - Terrestrial            | High         |
| Stock grazing/trampling                 | Low          |
| Stock grazing/trampling                 | High         |

Notes: Surrounded by pasture. Clearance of wetland for pasture in the past.

**Other Impacts**

| Threat Category Type | Rating    |
|----------------------|-----------|
| Damaging Activities  | [Unas...] |
| Fire                 | Low       |

Notes: Duckshooting. Tracks

Rating is subjective.

## Ecology

## Ecology

Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve

Lower Kaituna Wildlife Management Res | Wetland Id 146 | Altitude (m) -1 | Size (ha) | Survey Date 17/11/2004 | Quick Search lower | Go

Site | Ecological Importance | Management/Monitoring | Species | Pests | Threats | **Ecology** | Tenure | Consents

Classification

| Classification Type | Classification | Comment |
|---------------------|----------------|---------|
| Wetland Class       | Swamp          |         |
| Wetland Form        | Flat           |         |

Vegetation

Add

Wetland type, landform, and nutrient status. Probably could include other stuff here. The Vegetation field will include the information from vegetation mapping of wetlands and will have a direct link to GIS that will show these vege types.

## Consents

Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve

Lower Kaituna Wildlife Management Res | Wetland Id 146 | Altitude (m) -1 | Size (ha) | Survey Date 17/11/2004 | Quick Search lower | Go

Site | Ecological Importance | Management/Monitoring | Species | Pests | Threats | Ecology | Tenure | **Consents**

| Consent Number | Name                          | Purpose                        |
|----------------|-------------------------------|--------------------------------|
| 60225-0        | BOP REGIONAL COUNCIL          | CARRY OUT WETLAND VEGETATION R |
| 60720-0        | NATIONAL INSTITUTE OF WATER & | DISCHARGE HERBICIDE TO WATER F |

Connects with EBoP's consents database and where available gives a pdf of the consent conditions.

Tenure

## Tenure

The screenshot shows a software window titled "Wetland Ecologies Database - Lower Kaituna Wildlife Management Reserve". The interface includes a menu bar with options like Add, Edit, Save, Delete, Cancel, Previous, Next, Maintenance, Map, and Exit. Below the menu bar, there are input fields for "Wetland Id" (146), "Altitude (m)", "Size (ha)", and a "Quick Search" field with the text "lower" and a "Go" button. A tabbed interface is visible with tabs for Site, Ecological Importance, Management/Monitoring, Species, Pests, Threats, Ecology, Tenure (selected), and Consents. The main content area is titled "Contacts" and contains a table with the following data:

| IdentityType | FullName                   | KnownAs   | Title | FirstName | MiddleName | LastName                   | Suffix | Notes | UseEmail                 | PostalAddress                   |
|--------------|----------------------------|-----------|-------|-----------|------------|----------------------------|--------|-------|--------------------------|---------------------------------|
| Organisation | Department of Conservation | Sir/Madam |       |           |            | Department of Conservation |        |       | <input type="checkbox"/> | Tauranga Area Office PO Box 900 |

Below the table, there is an "Add Contact" button and a "Locality" text box containing the text "Adjacent to Kaituna River, Pongakawa Plains. (5km North east Te Puke)".

Gives the owner of the site, and provides for contacts information where the owner doesn't manage the land. So there's space for the lessee and also for the manager to identify who you would talk to to arrange access for example.