



# Ramsar Information Sheet

Update version, previously published on : 20 December 2007

## Republic of Korea Du-ung Wetland Ramsar Site



|                  |                        |
|------------------|------------------------|
| Designation date | 20 December 2007       |
| Site number      | 1724                   |
| Coordinates      | 36°50'11"N 126°11'48"E |
| Area             | 6,70 ha                |

## Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

## 1 - Summary

### Summary

Du-ung wetland is located on the west coast of the R.O. Korea, between sand dunes on the coast and mountainous area in rear. The site is a topographically unique wetland due to the fact that although it is situated close to the shore, it is in fact a fresh water lake which depends on underground water. This kind of wetland is very rare in the biogeographic region. Then due to long weathering, thick soil has been developed in the mountainous area, and the site is presenting good condition for settlement of vegetation. Although being the smallest Wetland Protection Area site in the nation (6.3ha), the wetland supports a high diversity of vascular plants, with 264 species from 177 genus and 68 families. The high number of plant species is mainly due to the proximity with the hilly area behind the sand dune and to the long history of settlement in the coastal village. The site also supports a number of internationally threatened species, such as the endangered Japanese Eel (*Anguilla japonica*), and the vulnerable Wild Common Carp (*Cyprinus carpio*) and the Pond Frog (*Pelophylax chosonicus*).

## 2 - Data & location

### 2.1 - Formal data

#### 2.1.1 - Name and address of the compiler of this RIS

##### Compiler 1

|                    |   |
|--------------------|---|
| Name               | Kyoung-Pyo Hong   |
| Institution/agency | Ministry of Environment   |
| Postal address     | 339-012 Building #6 Government Complex-Sejong 11 Doum 6-ro<br>Sejong Special Self-Governing City<br>Republic of Korea |
| E-mail             | amplest@korea.kr  |
| Phone              | +82-44-201-7229   |
| Fax                | +82-44-201-7235   |

#### 2.1.2 - Period of collection of data and information used to compile the RIS

|           |      |
|-----------|------|
| From year | 2007 |
| To year   | 2014 |

#### 2.1.3 - Name of the Ramsar Site

|   |                            |
|---|----------------------------|
| Official name (in English, French or Spanish) | Du-ung Wetland Ramsar Site |
| Unofficial name (optional)                    | Du-ung Wetland             |

#### 2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary Yes  No

(Update) B. Changes to Site area No change to area

#### 2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS? No

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

Former maps 0

#### Boundaries description

The boundary is the same as the Du-ung Wetland Protected Area that was designated by the Ministry of Environment of the Republic of Korea on 1 November, 2002, making up 6.5 ha or 0.065km<sup>2</sup> watershed.

### 2.2.2 - General location

|  |  |
|--|--|
| a) In which large administrative region does the site lie? | Chungcheongnam-do Province                   |
| b) What is the nearest town or population centre?          | Shindu-ri (town) in Wonbug-myun in Taean-gun |

### 2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries? Yes  No

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes  No

2.2.4 - Area of the Site

Official area, in hectares (ha):

Area, in hectares (ha) as calculated from GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

| Regionalisation scheme(s)           | Biogeographic region                                 |
|-------------------------------------|--|
| Udvardy's Biogeographical Provinces | Holarctic Region – Eastern Asiatic Region Palearctic |

### 3 - Why is the Site important?

#### 3.1 - Ramsar Criteria and their justification

- Criterion 1: Representative, rare or unique natural or near-natural wetland types

Other reasons

Du-ung Wetland was located behind a coastal sand dune, the Du-ung area is a topographically unique wetland. Even if it is situated on the seashore it is in fact a fresh water lake, which depends on underground water. That kind of wetland is very rare in Korea due to the long history of reclamation.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

Du-ung Wetland has attracted various conservation projects since 2002 including wetland conservation area, natural monuments, and ecosystem conservation area. Plants and insects endemic to the dune and wetland are found in the area, which is known to be inhabited by 264 vegetal species, 11 species of mammals, 53 bird species, 11 species of fishes, 7 species of Amphibian, 6 species of Reptile, 246 species of terrestrial insects, and 60 species of Benthic Invertebrates (Ministry of Environment, '09; '14).

#### 3.2 - Plant species whose presence relates to the international importance of the site

<no data available>

#### 3.3 - Animal species whose presence relates to the international importance of the site

| Phylum                             | Scientific name                  | Common name                         | Species qualifies under criterion   |                          |                          |                          | Species contributes under criterion |                          |                          |                          | Pop. Size | Period of pop. Est. | % occurrence 1) | IUCN Red List | CITES Appendix I                    | CMS Appendix I           | Other Status                     | Justification  |
|------------------------------------|----------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|-----------|---------------------|-----------------|---------------|-------------------------------------|--------------------------|----------------------------------|--|
|                                    |                                  |                                     | 2                                   | 4                        | 6                        | 9                        | 3                                   | 5                        | 7                        | 8                        |           |                     |                 |               |                                     |                          |                                  |  |
| <b>Birds</b>                       |                                  |                                     |                                     |                          |                          |                          |                                     |                          |                          |                          |           |                     |                 |               |                                     |                          |                                  |  |
| CHORDATA/AVES                      | <i>Accipiter nisus</i>           | Eurasian Sparrowhawk                | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | LC            | <input type="checkbox"/>            | <input type="checkbox"/> | VU /Class II Endangered Wildlife | National red list /Under the Wildlife Protection and Management Act in Korea |
| CHORDATA/AVES                      | <i>Accipiter soloensis</i>       | Chinese Sparrowhawk; Gray Frog-Hawk | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | LC            | <input type="checkbox"/>            | <input type="checkbox"/> | VU /Class II Endangered Wildlife | National red list /Under the Wildlife Protection and Management Act in Korea |
| CHORDATA/AVES                      | <i>Falco subbuteo</i>            | Eurasian Hobby; Northern Hobby      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | LC            | <input type="checkbox"/>            | <input type="checkbox"/> | VU /Class II Endangered Wildlife | National red list /Under the Wildlife Protection and Management Act in Korea |
| <b>Fish, Mollusc and Crustacea</b> |                                  |                                     |                                     |                          |                          |                          |                                     |                          |                          |                          |           |                     |                 |               |                                     |                          |                                  |  |
| CHORDATA/ACTINOPTERYGII            | <i>Anguilla japonica</i>         | Japanese Eel                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | EN            | <input type="checkbox"/>            | <input type="checkbox"/> |                                  |  |
| CHORDATA/ACTINOPTERYGII            | <i>Cyprinus carpio</i>           | Wild Common Carp                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | VU            | <input type="checkbox"/>            | <input type="checkbox"/> |                                  |  |
| <b>Others</b>                      |                                  |                                     |                                     |                          |                          |                          |                                     |                          |                          |                          |           |                     |                 |               |                                     |                          |                                  |  |
| CHORDATA/REPTILIA                  | <i>Eremias argus</i>             |                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 |               | <input type="checkbox"/>            | <input type="checkbox"/> | EN National red list             |  |
| CHORDATA/AMPHIBIA                  | <i>Kaloula borealis</i>          | Boreal Digging Frog                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | LC            | <input type="checkbox"/>            | <input type="checkbox"/> | VU /Class II Endangered Wildlife | National red list/ Wildlife Protection and Management Act in Korea           |
| CHORDATA/AMPHIBIA                  | <i>Pelophylax chosonicus</i>     | Pond Frog                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | VU            | <input type="checkbox"/>            | <input type="checkbox"/> | VU /Class II Endangered Wildlife | National red list /Wildlife Protection and Management Act in Korea           |
| CHORDATA/AMPHIBIA                  | <i>Pelophylax nigromaculatus</i> | Black-spotted Pond Frog             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | NT            | <input type="checkbox"/>            | <input type="checkbox"/> |                                  |  |
| CHORDATA/MAMMALIA                  | <i>Prionailurus bengalensis</i>  | Leopard Cat                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |                     |                 | LC            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | VU /Class II Endangered Wildlife | National red list /Under the Wildlife Protection and Management Act in Korea |

1) Percentage of the total biogeographic population at the site

### 3.4 - Ecological communities whose presence relates to the international importance of the site

<no data available>

## 4 - What is the Site like? (Ecological character description)

### 4.1 - Ecological character

The Du-ung Wetland is a coastal sand dune wetland that was formed by movement of sand dunes in the coasts of Sinduri beach. While moving, sand deposited and blocked the flow of water out to sea. Despite its location and formation, the wetland provides clean and fresh water. During drought seasons or under dry weather conditions, water retained in surrounding dunes replenish the site.

### 4.2 - What wetland type(s) are in the site?

Marine or coastal wetlands

| Wetland types (code and name)     | Local name | Ranking of extent (1: greatest - 4: least) | Area (ha) of wetland type | Justification of Criterion 1 |
|-----------------------------------|------------|--|---------------------------|------------------------------|
| E: Sand, shingle or pebble shores |            | 1  |                           |                              |
| K: Coastal freshwater lagoons     |            | 0  |                           | Unique                       |

### 4.3 - Biological components

#### 4.3.1 - Plant species

Other noteworthy plant species

| Scientific name                  | Common name | Position in range / endemism / other |
|----------------------------------|-------------|--------------------------------------|
| <i>Aster fastigiatus</i>         |             |                                      |
| <i>Carex tristachya</i>          |             |                                      |
| <i>Cerastium fischerianum</i>    |             |                                      |
| <i>Hololeion maximowiczii</i>    |             |                                      |
| <i>Limnophila indica</i>         |             |                                      |
| <i>Phacelurus latifolius</i>     |             |                                      |
| <i>Plantago camtschatica</i>     |             |                                      |
| <i>Rhododendron mucronulatum</i> |             |                                      |
| <i>Utricularia australis</i>     |             |                                      |

Invasive alien plant species

| Scientific name                    | Common name                               | Impacts    | Changes at RIS update |
|------------------------------------|---|------------|-----------------------|
| <i>Bidens frondosa</i>             |   | No impacts | No change             |
| <i>Chenopodium album</i>           |   | No impacts | No change             |
| <i>Chenopodium ficifolium</i>      |   | No impacts | No change             |
| <i>Crassocephalum crepidioides</i> |   | No impacts | No change             |
| <i>Fallopia dumetorum</i>          |   | No impacts | No change             |
| <i>Lepidium apetalum</i>           |   | No impacts | No change             |
| <i>Lepidium ruderae</i>            |   | No impacts | No change             |
| <i>Oenothera odorata</i>           |   | No impacts | No change             |
| <i>Phytolacca americana</i>        |   | No impacts | No change             |
| <i>Robinia pseudoacacia</i>        | False-acacia; False Acacia; Black Locust  | No impacts | No change             |
| <i>Rumex crispus</i>               |   | No impacts | No change             |
| <i>Trifolium repens</i>            | Dutch Clover; Ladino Clover; White Clover | No impacts | No change             |
| <i>Veronica arvensis</i>           |   | No impacts | No change             |

#### 4.3.2 - Animal species

Other noteworthy animal species

| Phylum        | Scientific name                  | Common name | Pop. size | Period of pop. est. | %occurrence | Position in range / endemism / other |
|---------------|----------------------------------|-------------|-----------|---------------------|-------------|--------------------------------------|
| CHORDATA/AVES | <i>Anser fabalis semirostris</i> |             |           |                     |             | Class II Endangered Wildlife         |

Invasive alien animal species

| Phylum            | Scientific name                | Common name       | Impacts                  | Changes at RIS update |
|-------------------|--------------------------------|-------------------|--------------------------|-----------------------|
| CHORDATA/AMPHIBIA | <i>Lithobates catesbeianus</i> | American Bullfrog | Actually (major impacts) | increase              |

### 4.4 - Physical components

4.4.1 - Climate

| Climatic region                                 | Subregion  |
|---|--|
| D: Moist Mid-Latitude climate with cold winters | Dwa: Humid continental (Humid with severe, dry winter, hot summer) |

4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

- Entire river basin
- Upper part of river basin
- Middle part of river basin
- Lower part of river basin
- More than one river basin
- Not in river basin
- Coastal

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

On the west coast of the Korean Peninsula, in the Yellow Sea

4.4.3 - Soil

Organic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

No available information

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)? Yes  No

Please provide further information on the soil (optional)

The grain size of sediments gets smaller to the center than at the edges. The amount of sedimentary organic matters increases along to the center, while the amount of calcium, magnesium, sodium and potassium drops.

4.4.4 - Water regime

Water permanence

| Presence?                       | Changes at RIS update |
|---------------------------------|-----------------------|
| Usually permanent water present |                       |

Source of water that maintains character of the site

| Presence?                     | Predominant water source            | Changes at RIS update |
|-------------------------------|-------------------------------------|-----------------------|
| Water inputs from groundwater | <input checked="" type="checkbox"/> | No change             |

Water destination

| Presence?         | Changes at RIS update |
|-------------------|-----------------------|
| Feeds groundwater | No change             |

Stability of water regime

| Presence?                                  | Changes at RIS update |
|--|-----------------------|
| Water levels fluctuating (including tidal) | No change             |

4.4.5 - Sediment regime

Sediment regime unknown

(EOD) Water temperature

4.4.6 - Water pH

Circumneutral (pH: 5.5-7.4)

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Unknown

4.4.7 - Water salinity

Fresh (<0.5 g/l)

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Unknown



4.4.8 - Dissolved or suspended nutrients in water

Eutrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Mesotrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Oligotrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Dystrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Unknown

4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the site itself. i) broadly similar  ii) significantly different

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

| Ecosystem service | Examples                        | Importance/Extent/Significance |
|-------------------|---------------------------------|--------------------------------|
| Fresh water       | Water for irrigated agriculture | Medium                         |

Cultural Services

| Ecosystem service      | Examples                                    | Importance/Extent/Significance |
|------------------------|---|--------------------------------|
| Recreation and tourism | Nature observation and nature-based tourism | Medium                         |

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes  No  Unknown

4.5.2 - Social and cultural values

- i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland
- ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
- iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples
- iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

<no data available>

4.6 - Ecological processes

<no data available>

## 5 - How is the Site managed? (Conservation and management)

### 5.1 - Land tenure and responsibilities (Managers)

#### 5.1.1 - Land tenure/ownership

Public ownership

| Category                    | Within the Ramsar Site              | In the surrounding area  |
|-----------------------------|-------------------------------------|--------------------------|
| National/Federal government | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Private ownership

| Category                                   | Within the Ramsar Site              | In the surrounding area             |
|--|-------------------------------------|-------------------------------------|
| Other types of private/individual owner(s) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Provide further information on the land tenure / ownership regime (optional):

The land buy-in programme has been implemented to private lands within the boundary of the Du-ung Wetland Protection Area site, designated by the Ministry of Environment in 2012. As of 2015, of all land area within the boundary of the Ramsar Site, the public ownership holds 39.9% of land area, while private ownership at 59.2%.

#### 5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:

Geum-River Basin Environmental Office

Provide the name and title of the person or people with responsibility for the wetland:

Lee Eung-ju, Director of Nature Environment Division, GRBEO

Postal address:

305-706  
21 Guseung-dong, Yuseung-gu, Daejeon

E-mail address:

runrun21@korea.kr

## 5.2 - Ecological character threats and responses (Management)

### 5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

Human settlements (non agricultural)

| Factors adversely affecting site | Actual threat | Potential threat | Within the site                     | Changes   | In the surrounding area             | Changes   |
|----------------------------------|---------------|------------------|-------------------------------------|-----------|-------------------------------------|-----------|
| Tourism and recreation areas     | Low impact    |                  | <input checked="" type="checkbox"/> | No change | <input checked="" type="checkbox"/> | No change |

Agriculture and aquaculture

| Factors adversely affecting site | Actual threat | Potential threat | Within the site          | Changes   | In the surrounding area             | Changes   |
|----------------------------------|---------------|------------------|--------------------------|-----------|-------------------------------------|-----------|
| Livestock farming and ranching   | Low impact    |                  | <input type="checkbox"/> | No change | <input checked="" type="checkbox"/> | No change |

#### 5.2.2 - Legal conservation status

National legal designations

| Designation type          | Name of area | Online information url | Overlap with Ramsar Site |
|---------------------------|--------------|------------------------|--------------------------|
| Wetland Conservation Area |              |                        | whole                    |

#### 5.2.3 - IUCN protected areas categories (2008)

Ia Strict Nature Reserve

Ib Wilderness Area: protected area managed mainly for wilderness protection

II National Park: protected area managed mainly for ecosystem protection and recreation

III Natural Monument: protected area managed mainly for conservation of specific natural features

IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention

V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation

VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

### 5.2.4 - Key conservation measures

#### Legal protection

| Measures         | Status      |
|------------------|-------------|
| Legal protection | Implemented |

#### Habitat

| Measures                 | Status                |
|--------------------------|-----------------------|
| Land conversion controls | Partially implemented |

#### Species

| Measures                         | Status      |
|----------------------------------|-------------|
| Control of invasive alien plants | Implemented |

#### Human Activities

| Measures   | Status                |
|--|-----------------------|
| Research   | Implemented           |
| Communication, education, and participation and awareness activities | Partially implemented |

### 5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site? Yes  No

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning processes with another Contracting Party? Yes  No

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

wetland experience programme for local people, a tourist office

### 5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No, the site has already been restored

### 5.2.7 - Monitoring implemented or proposed

| Monitoring                      | Status      |
|---------------------------------|-------------|
| Birds                           | Implemented |
| Plant species                   | Implemented |
| Plant community                 | Implemented |
| Animal species (please specify) | Implemented |
| Water regime monitoring         | Implemented |
| Water quality                   | Implemented |
| Animal community                | Implemented |

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

1. Ministry of Environment (2014) Intensive Survey on the Wetland Protected Areas
2. Ministry of Environment (2009) Intensive Survey on the Wetland Protected Areas.
3. Research Institute of Industry and Environment, Gyungwon Uni. (2004) Conservation and Sustainable Use of Sindu Sand Dune.
4. Ministry of Environment (2002) Conservation of Sand Dunes.
5. Ministry of Environment (2002) Conservation Plan of Du-ung Wetland.

#### 6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<no file available>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<no file available>

<no data available>

#### 6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Landscape of Du-ung Wetland ( Ministry of Environment, 01-12-2014 )



Indian Marshweed (*Limnophila indica*) ( Ministry of Environment, 13-01-2015 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation