**FIELD SURVEY REPORT HAMMAR MARSHES JANUARY 2014**

# 

# West Hammar

## Kurmashyah marsh

The site was surveyed in 9 Jan 2014.

Administrative Area: Thi-Qar

Central coordinates: **N** 30° 47' 35.7"; **E** 46° 37' 01.1"

|  |  |  |
| --- | --- | --- |
| **N** | **E** | **S** |
| **N-E-S_Karmashyah** | | |
| Eastern view of Kemrmashiya marsh (180°). | | |
| **S** | **W** | **N** |
| **S-W-N_Karmashyah** | | |
| Western view of Kemrmashiya marsh (180°). | | |

**Threat assessment**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0297185.wmf** |  |  |  |  |  |  | **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0285360.wmf** |
| **Agricultural expansion** | **Urbanization** | **Oil & mining** | **Transport** | **Over-exploitation** | **Disturbance** | **Natural system modification** | **Pollution** |

The level of each threat: White: Low, Yellow: Medium, Orange: High, Red = Very high

## Site Description:

The site is located in Thi-Qar district, 10 km to the south of Karmat Bani Said. It is an open area with scattered plants represented by *Typha* and *Phragmites* communities. Water depth in the site was approximately 1 m and the depth was decreasing toward the southern part of the site. There is an embankment extending from the north-east to the south-west of the area. Many houses built using mud and reed were observed on the embankment. The Big channel that has a 2.5 m water depth was considered a part of Al-Hammar marsh bringing the water from MOD northwards to the north-western parts of Hammar marsh. Fishing use electric generators in addition to bird hunting were observed at the site.

Flora Observations.

|  |  |
| --- | --- |
| # | Plant name |
| 1 | *Potamogeton lucens* |
| 2 | *Typha domingensis* |
| 3 | *Tamarix sp.* |
| 4 | *Schoenoplectus litoralis* |
| 6 | *Phragmites australis* |

Birds observed during the surveys. The numbers in the table represent the counts of the individual birds of each species.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Common Name | Scientific Name | Count |
| 1 | Little Grebe | *Tachybaptus ruficollis* | 7 |
| 2 | Great Cormorant | *Phalacrocorax carbo* | 2 |
| 3 | Pygmy Cormorant | *Phalacrocorax pygmeus* | 7 |
| 4 | Grey Heron | *Ardea cinerea* | 1 |
| 5 | Purple Heron | *Ardea purpurea* | 3 |
| 6 | Little Egret | *Egretta garzetta* | 160 |
| 7 | Western Cattle Egret | *Bubulcus ibis* | 4 |
| 8 | Marbled Duck | *Marmaronetta angustirostris* | 2 |
| 9 | Western Marsh Harrier | *Circus aeruginosus* | 3 |
| 10 | Slender-billed Gull | *Chroicocephalus genei* | 150 |
| 11 | Black-winged Stilt | *Himantopus himantopus* | 30 |
| 12 | Common Moorhen | *Gallinulac hloropus* | 3 |
| 13 | Pied Kingfisher | *Ceryle rudis* | 70 |
| 14 | White-throated Kingfisher | *Halcyon smyrnensis* | 5 |
| 15 | Malachite Kingfisher | *Alcedo cristata* | 4 |
| 16 | Eurasian Collared Dove | *Streptopelia decaocto* | 12 |
| 17 | White-eared Bulbul | *Pycnonotus leucotis* | 2 |
| 18 | Bluethroat | *Luscinia svecica* | 1 |
| 19 | European Robin | *Erithacus rubecula* | 8 |
| 20 | Rufous-tailed Scrub Robin | *Cercotrichas galactotes* | 2 |
| 21 | Roufus-tailed Shrike | *Lanius isabellinus* | 1 |
| 22 | Common Chiffchaff | *Phylloscopus collybita* | 10 |
| 23 | Iraq Babbler | *Turdoides altirostris* | 3 |
| 24 | Graceful Prinia | *Prinia gracilis* | 4 |
| 25 | House Sparrow | *Passer domesticus* | 22 |
| 26 | White Wagtail | *Motacilla alba* | 3 |

Other Fauna species found/reported during the surveys

| # | Common Name | Scientific Name | Note |
| --- | --- | --- | --- |
| 1 | Golden Jackal | *Canis aureus* | Reported by locals |
| 2 | Red Fox | *Vulpes vulpes* | Reported by locals |
| 3 | Wild Boar | *Sus scrofa* | Reported by locals |
| 4 | Grey wolf | *Canis lupus* | Reported by locals |
| 5 | Jungle cat | *Felis chaus* | Reported by locals |
| 6 | European Otter | *Lutra lutra* | Reported by locals |
| 7 | Small Asian Mongoose | *Herpestes auropunctatus* | Reported by locals |
| 8 | Dice Water Snake | *Natrix tessellate* | Reported by locals |
| 9 | Indian stinging catfish | *Heteropneustus fossilis* | Reported by locals |
| 10 |  | *Silurus triostegus* | Reported by locals |
| 11 |  | *Tilapia zilli* | Dominant |
| 12 |  | *Cyprinus carpio* | Observed |
| 13 |  | *Barbus sharpeyi* | Observed |
| 14 |  | *Liza abu* | Observed |
| 15 |  | *Aspius vorax* | Observed |
| 16 |  | *Barbus luteus* | Observed |

Field measurements of water sample

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Station 1 | Station 2 | Station 3 |
| Air Temperature ( C° ) | 14.1 | 18.1 | 17 |
| Water Temperature ( C° ) | 11.2 | 12.3 | 11.9 |
| pH | 7.78 | 7.65 | 7.67 |
| Conductivity (ms/cm) | 6.46 | 11.47 | 6.2 |
| Salinity (ppt) | 3.4 | 6.4 | 3.3 |
| Dissolve Oxygen (mg/l) | 4.80 | 4.50 | 4.69 |
| Dissolve Oxygen (%) | 45.5 | 43.1 | 43.2 |
| Turbidity (NTU) | 32.59 | 60.3 | 10.8 |
| Depth (m) | 2.5 | 1.5 | 2.5 |

Anions, Cations and COD of water sample

|  |  |  |
| --- | --- | --- |
| Parameters | Station 1 | Station 2 |
| **Duplicate 1** | **Duplicate 1** |
| Cl (ppm) | 1300 | 1400 |
| HCO3 (ppm) | 213 | 233 |
| NO3 (ppm) | ND | 0.38 |
| SO4 (ppm) | 77 | 102 |
| COD (ppm) | 112 | 48 |
| Ca (ppm) | 240 | 240 |
| Mg (ppm) | 45 | 99 |
| Na (ppm) | 648 | 650 |
| K (ppm) | 75 | 75 |

## Abu-Ajaj,East

The site was surveyed in 11 Jan 2014.

Administrative Area: Thi-Qar

Central coordinates: **N** 30° 51' 19.7"; **E** 46° 58' 55.7"

|  |  |  |
| --- | --- | --- |
| **N** | **E** | **S** |
| **N-E-S Abu-Ajaj, East** | | |
| Eastern view of Abu-Ajaj east (180°). | | |
| **S** | **W** | **N** |
| **S-W-N Abu-Ajaj, East** | | |
| Western view of Abu-Ajaj east (180°). | | |

**Threat assessment**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0297185.wmf** |  |  |  |  |  |  | **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0285360.wmf** |
| **Agricultural expansion** | **Urbanization** | **Oil & mining** |  | **Over-exploitation** | **Disturbance** | **Natural system modification** | **Pollution** |

The level of each threat: White: Low, Yellow: Medium, Orange: High, Red = Very high

## Site Description:

The site is located in the south of Chibaish District, in the central part of East Hammar marsh. Water depth at the site is about 1 m. The site is mostly open and the vegetation cover is dominated by *Phragmites* as well as by few species of *Typha* and *Scirpus*. This part receives water from the Euphrates in addition to a canal which is a tributary of the MOD toward the east side. Various human activities were observed in the site including fishing and bird hunting and reed cutting.

Flora Observations.

|  |  |
| --- | --- |
| # | Plant name |
| 1 | *Typha domingensis* |
| 2 | *Phragmites australis* |
| 3 | *Schoenoplectus litoralis* |

Birds observed during the surveys. The numbers in the table represent the counts of the individual birds of each species.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Common Name | Scientific Name | Count |
| 1 | Little Grebe | *Tachybaptus ruficollis* | 45 |
| 2 | Great Cormorant | *Phalacrocorax carbo* | 8 |
| 3 | Pygmy Cormorant | *Phalacrocorax pygmeus* | 5 |
| 4 | Purple Swamphen | *Porphyrio porphyrio* | 3 |
| 5 | Purple Heron | *Ardea purpurea* | 5 |
| 6 | Little Egret | *Egretta garzetta* | 40 |
| 7 | Marbled Duck | *Marmaronetta angustirostris* | 8 |
| 8 | Northern Pintail | *Anas acuta* | 25 |
| 9 | Greater Spotted Eagle | *Aquila clanga* | 1 |
| 10 | Long-legged Buzzard | *Buteo rufinus* | 1 |
| 11 | Western Marsh Harrier | *Circus aeruginosus* | 2 |
| 12 | Whiskered Tern | *Chlidonias hybrida* | 500 |
| 13 | Slender-billed Gull | *Chroicocephalu sgenei* | 70 |
| 14 | Yellow-legged Gull | *Larus michahellis* | 2 |
| 15 | Black-winged Stilt | *Himantopus himantopus* | 25 |
| 16 | White-tailed Lapwing | *Vanellus leucurus* | 11 |
| 17 | Spur-winged Lapwing | *Vanellus spinosus* | 2 |
| 18 | Red-wattled Lapwing | *Vanellus indicus* | 3 |
| 19 | Common Moorhen | *Gallinula chloropus* | 5 |
| 20 | Pied Kingfisher | *Ceryle rudis* | 65 |
| 21 | White-throated Kingfisher | *Halcyon smyrnensis* | 3 |
| 22 | Common Kingfisher | *Alcedo cristata* | 4 |
| 23 | European Robin | *Erithacus rubecula* | 2 |
| 24 | Isabelline Shrike | *Lanius isabellinus* | 1 |
| 25 | Common Chiffchaff | *Phylloscopus collybita* | 8 |
| 26 | Iraq Babbler | *Turdoides altirostris* | 14 |
| 27 | Great Reed Warbler | *Acrocephalus arundinaceus* | 9 |
| 28 | Graceful Prinia | *Prinia gracilis* | 2 |
| 29 | House Sparrow | *Passer domesticus* | 3 |
| 30 | Water Pipit | *Anthus spinoletta* | 5 |
| 31 | White Wagtail | *Motacilla alba* | 35 |
| 32 | Western Yellow Wagtail | *Motacilla flava* | 1 |

Table 1: Other Fauna species found/reported during the surveys.

| # | Common Name | Scientific Name | Note |
| --- | --- | --- | --- |
| 1 | Grey wolf | *Canis lupus* | Reported by locals |
| 2 | Golden Jackal | *Canis aureus* | Reported by locals |
| 3 | Red Fox | *Vulpes vulpes* | Reported by locals |
| 4 | Wild Boar | *Sus scrofa* | Reported by locals |
| 5 | Jungle cat | *Felis chaus* | Reported by locals |
| 6 | Small Asian Mongoose | *Herpestes auropunctatus* | Reported by locals |
| 7 |  | *Barbus luteus* | Observed |
| 8 |  | *Carassius carassius* | Observed |
| 9 |  | *Barbus xanthopterus* | Reported by locals |
| 10 |  | *Cyprinus carpio* | Observed |
| 11 |  | *Liza abu* | Observed |
| 12 |  | *Tilapia zilli* | Dominant |
| 13 |  | *Ctenopharyngodon idella* | Reported by locals |
| 14 |  | *Aspius vorax* | Reported by locals |

Field measurements of water sample.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Station 1 | Station 2 | Station 3 |
| Air Temperature ( C° ) | 13.5 | 13 | 14.6 |
| Water Temperature ( C° ) | 12.2 | 13.1 | 12.8 |
| pH | 7.80 | 7.90 | 8.30 |
| Conductivity (ms/cm) | 4.43 | 4.75 | 5.8 |
| Salinity (ppt) | 2.2 | 2.4 | 3.1 |
| Dissolve Oxygen (mg/l) | 3.40 | 5.10 | 6.20 |
| Dissolve Oxygen (%) | 30.3 | 47.2 | 55.3 |
| Turbidity (NTU) | 2.1 | 15.8 | 32.1 |
| Depth (m) | 1.5 | 1.5 | 2.5 |

# East Hammar

## Shaafi Marsh

The site was surveyed in 12 Jan 2014.

Administrative Area: Basrah

Central coordinates: **N** 30° 47' 40.7"; **E** 47° 26' 12.5"

|  |  |  |
| --- | --- | --- |
| **N** | **E** | **S** |
| **N-E-S-Shaafi** | | |
| Eastern view of Shaafi Marsh (180°). | | |
| **S** | **W** | **N** |
| **S-W-N-Shaafi** | | |
| Western view of Shaafi marsh (180°)  **Threat assessment**   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0297185.wmf** |  |  |  |  |  |  | **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0285360.wmf** | | **Agricultural expansion** | **Urbanization** | **Oil & mining** |  | **Over-exploitation** | **Disturbance** | **Natural system modification** | **Pollution** | | | |

The level of each threat: White: Low, Yellow: Medium, Orange: High, Red = Very high

## Site Description:

The site is located in the northern part of East Hammar marsh and in the north west of Basrah district. The site is occupied by a network of drainage water canal and some swamps having different water depths that range from 15 – 50 cm. The dominating plant is the *Phragmites* as well as *Scirpus* and *Typha*. Some patches of open water with a low vegetation cover also exist in the site. Fishing using electric generators in addition to bird hunting was observed and there are oil activities in the northwest of the area.

Flora Observations.

|  |  |
| --- | --- |
| # | Plant name |
| 1 | *Typha domingensis* |
| 2 | *Phragmites australis* |
| 3 | *Schoenoplectus litoralis* |

Birds observed during the surveys. The numbers in the table represents the counts of the individual birds of each species.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Common Name | Scientific Name | Count |
| 1 | Little Grebe | *Tachybaptus ruficollis* | 15 |
| 2 | Eurasian Coot | *Fulica atra* | 400 |
| 3 | Purple Heron | *Ardea purpurea* | 2 |
| 4 | Grey Heron | *Ardea cinerea* | 12 |
| 5 | Little Egret | *Egretta garzetta* | 55 |
| 6 | Little Bittern | *Ixobrychus minutus* | 3 |
| 7 | Squacco Heron | *Ardeola ralloides* | 40 |
| 8 | Eurasian Teal | *Anas crecca* | 120 |
| 9 | Marbled Duck | *Marmaronetta angustirostris* | 70 |
| 10 | Northern Pintail | *Anas acuta* | 65 |
| 11 | Western Marsh Harrier | *Circus aeruginosus* | 3 |
| 12 | Whiskered Tern | *Chlidonias hybrida* | 160 |
| 13 | Slender-billed Gull | *Chroicocephalus genei* | 40 |
| 14 | Black-winged Stilt | *Himantopus himantopus* | 25 |
| 15 | White-tailed Lapwing | *Vanellus leucurus* | 17 |
| 16 | Common Greenshank | *Tringa nebularia* | 2 |
| 17 | Common Sandpiper | *Actitis hypoleucos* | 3 |
| 18 | Common Snipe | *Gallinago gallinago* | 2 |
| 19 | Little Crake | *Porzana parva* | 1 |
| 20 | Common Moorhen | *Gallinula chloropus* | 6 |
| 21 | Mesopotamian Crow | *Corvus capellanus* | 2 |
| 22 | Pied Kingfisher | *Ceryle rudis* | 48 |
| 23 | White-throated Kingfisher | *Halcyon smyrnensis* | 2 |
| 24 | Common Kingfisher | *Alcedo cristata* | 2 |
| 25 | Sand Martin | *Riparia riparia* | 80 |
| 26 | Rufous-tailed Scrub Robin | *Cercotrichas galactotes* | 2 |
| 27 | Roufus-tailed Shrike | *Lanius isabellinus* | 5 |
| 28 | Iraq Babbler | *Turdoides altirostris* | 12 |
| 29 | Great Reed Warbler | *Acrocephalus arundinaceus* | 3 |
| 30 | Dead Sea Sparrow | *Passer moabiticus* | 30 |
| 31 | Water Pipit | *Anthus spinoletta* | 7 |
| 32 | White Wagtail | *Motacilla alba* | 11 |

Other Fauna species found/reported during the surveys.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Common Name | Scientific Name | Note |
| 1 | Grey wolf | *Canis lupus* | Reported by locals |
| 2 | Golden Jackal | *Canis aureus* | Reported by locals |
| 3 | Red Fox | *Vulpes vulpes* | Reported by locals |
| 4 | Wild Boar | *Suss crofa* | Reported by locals |
| 5 | Small Asian Mongoose | *Herpestes auropunctatus* | Reported by locals |
| 6 |  | *Carassius auratus* | Reported by locals |
| 7 |  | *Tilapia zilli* | Dominant |
| 8 |  | *Carassius carassius* | Observed |
| 9 |  | *Liza abu* | Observed |

Field measurements of water sample.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Station 1 | Station 2 | Station 3 |
| Air Temperature ( C° ) | 12.5 | 13 | 13 |
| Water Temperature ( C° ) | 11.5 | 12 | 12.4 |
| pH | 8.90 | 8.26 | 8.37 |
| Conductivity (ms/cm) | 16.48 | 8.74 | 6.48 |
| Salinity (ppt) | 9.4 | 4.8 | 3.4 |
| Dissolve Oxygen (mg/l) | 9.90 | 4.50 | 7.40 |
| Dissolve Oxygen (%) | 89.0 | 42.1 | 68.2 |
| Turbidity (NTU) | 5.39 | 9.9 | 30.4 |
| Depth (m) | 0.5 | 1 | 1 |

## Naggarah

The site was surveyed in 13 Jan 2014.

Administrative Area: Basrah

Central coordinates: **N** 30° 41' 15.0"; **E** 47° 34' 44.4"

|  |  |  |
| --- | --- | --- |
| **N** | **E** | **S** |
| **N-E-S AL-Naggarah** | | |
| Eastern view of Naggarah (180°). | | |
| **S** | **W** | **N** |
| **S-W-N AL-Naggarah** | | |
| Western view of Naggarah (180°). | | |

**Threat assessment**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0297185.wmf** |  |  |  |  |  |  | **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0285360.wmf** |
| **Agricultural expansion** | **Urbanization** | **Oil & mining** |  | **Over-exploitation** | **Disturbance** | **Natural system modification** | **Pollution** |

The level of each threat: White: Low, Yellow: Medium, Orange: High, Red = Very high

## Site Description:

The site is situated in the west side of Haritha town at Al-Hafar River and belongs to Basrah district. It is considered as a part of East Hammar marsh. The site is fed by the Euphrates River, exposed to tidal waves and has a water depth of about 30 cm. Relatively good vegetation cover was observed and it is represented by *Phragmites* , *Scirpus* and *Typha*. The biodiversity of the site is quite interesting in terms of birds and fish which make this site favorite to hunters and fishermen. Fishing is practiced by using electrical generators. At the center of the river that feed the marsh, oil activities were observed represented by pipeline under construction extending from the NE toward the SW part of the river itself.

Flora Observations.

|  |  |
| --- | --- |
| # | Plant name |
| 1 | *Typha domingensis* |
| 2 | *Phragmites australis* |
| 3 | *Schoenoplectus litoralis* |

Birds observed during the surveys. The numbers in the table represents the counts of the individual birds of each species.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Common Name | Scientific Name | Count |
| 1 | Grey Heron | *Ardea cinerea* | 4 |
| 2 | Little Egret | *Egretta garzetta* | 900 |
| 3 | Eurasian Teal | *Anas crecca* | 70 |
| 4 | Eurasian Wigeon | *Anas penelope* | 25 |
| 5 | Pallid Harrier | *Circus macrourus* | 1 |
| 6 | Greater Spotted Eagle | *Aquila clanga* | 3 |
| 7 | Western Marsh Harrier | *Circus aeruginosus* | 2 |
| 8 | Whiskered Tern | *Chlidonias hybrida* | 30 |
| 9 | Slender-billed Gull | *Chroicocephalus genei* | 17 |
| 10 | Black-winged Stilt | *Himantopus himantopus* | 2 |
| 11 | White-tailed Lapwing | *Vanellus leucurus* | 6 |
| 12 | Red-wattled Lapwing | *Vanellus indicus* | 2 |
| 13 | Common Greenshank | *Tringa nebularia* | 15 |
| 14 | Common Sandpiper | *Actitis hypoleucos* | 3 |
| 22 | Kentish Plover | *Charadrius alexandrinus* | 250 |
| 23 | Pied Kingfisher | *Ceryle rudis* | 20 |
| 24 | White-throated Kingfisher | *Halcyon smyrnensis* | 3 |
| 25 | Common Kingfisher | *Alcedo cristata* | 1 |
| 26 | Eurasian Collared Dove | *Streptopelia decaocto* | 3 |
| 27 | Eurasian Stonechat | *Saxicola rubicola* | 1 |
| 28 | DaurianIsabelline Shrike | *Lanius isabellinus* | 1 |
| 29 | Common Starling | *Sturnus vulgaris* | 9 |
| 30 | Graceful Prinia | *Prinia gracilis* | 1 |
| 31 | Eurasian Skylark | *Alauda arvensis* | 60 |
| 32 | House Sparrow | *Passer domesticus* | 8 |
| 32 | Water Pipit | *Anthus spinoletta* | 3 |

Other Fauna species found/reported during the four surveys.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Common Name | Scientific Name | Note |
| 1 | Golden Jackal | *Canis aureus* | Reported by locals |
| 2 | Red Fox | *Vulpes vulpes* | Reported by locals |
| 3 | Euphrates Softshell Turtle | *Rafetus euphraticus* | Reported by locals |
| 4 | Marsh Frog | *Pelophylax (Rana) ridibundus* | Observed |
| 5 | Mudskipper | *Subfamily: Oxudercinae* | Observed |
| 6 |  | *Tilapia zilli* | Dominant |
| 7 |  | *Liza abu* | Observed |

Field measurements of water sample.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Station 1 | Station 2 | Station 3 |
| Air Temperature ( C° ) | 13 | 13.5 | 15 |
| Water Temperature ( C° ) | 13.1 | 12.5 | 3.1 |
| pH | 8.35 | 8.57 | 8.52 |
| Conductivity (ms/cm) | 11.18 | 9.26 | 7.95 |
| Salinity (ppt) | 6.3 | 5.1 | 4.3 |
| Dissolve Oxygen (mg/l) | 8.72 | 8.98 | 9.40 |
| Dissolve Oxygen (%) | 80.90 | 82.3 | 89.9 |
| Turbidity (NTU) | 11.1 | 13.5 | 14.3 |
| Depth (m) | 3 | 6 | 7 |

Anions, Cations and COD of water sample.

|  |  |  |
| --- | --- | --- |
| Parameters | Station 1 | Station 2 |
| **Duplicate 1** | **Duplicate 1** |
| Cl (ppm) | 2199 | 2299 |
| HCO3 (ppm) | 127 | 273 |
| NO3 (ppm) | 0.13 | 0.24 |
| SO4 (ppm) | 143 | 86 |
| PO4 (ppm) |  |  |
| COD (ppm) | 24 | 96 |
| Ca (ppm) | 240 | 273 |
| Mg (ppm) | 90 | 76 |
| Na (ppm) | 843 | 840 |
| K (ppm) | 74 | 74 |

## Shilaychiya

The site was surveyed in 13 Jan 2014.

Administrative Area: Basrah

Central coordinates: **N** 30° 40' 07.1"; **E** 47° 29' 41.7"

|  |  |  |
| --- | --- | --- |
| **N** | **E** | **S** |
| **N-E-S** | | |
| Eastern view of Shilaychiya (180°). | | |
| **S** | **W** | **N** |
| **S-W-N** | | |
| Western Shilaychiya (180°). | | |

**Threat assessment**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0297185.wmf** |  |  |  |  |  |  | **C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0285360.wmf** |
| **Agricultural expansion** | **Urbanization** | **Oil & mining** |  | **Over-exploitation** | **Disturbance** | **Natural system modification** |  |

The level of each threat: White: Low, Yellow: Medium, Orange: High, Red = Very high

## Site Description:

The site is located in the south-eastern side of Rumaila oil fields. It belongs to Basrah province and it is considered as a part of Eastern Al-Hammar marsh. MOD River is passing through the site in addition to the main road on the MOD embankment. Water level is rather low (about 25 cm depth) as compared with the previous visits and the site is exposed to tidal waves. Vegetation cover is represented by *Phragmites* scattered in the area. Several grazing and hunting activities were also noticed in the site.

Flora Observations.

| # | Plant name |
| --- | --- |
| 1 | *Typha domingensis* |
| 2 | *Phragmites australis* |
| 3 | *Schoenoplectus litoralis* |
| 4 | *Tamarix sp.* |
| 5 | *Malva* |

Birds observed during the surveys. The numbers in the table represents the counts of the individual birds of each species.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Common Name | Scientific Name | Count |
| 1 | Little Grebe | *Tachybaptus ruficollis* | 1 |
| 2 | Grey Heron | *Ardea cinerea* | 3 |
| 3 | Little Egret | *Egretta garzetta* | 300 |
| 4 | Western Marsh Harrier | *Circus aeruginosus* | 1 |
| 5 | Whiskered Tern | *Chlidonias hybrida* | 12 |
| 6 | Slender-billed Gull | *Chroicocephalus genei* | 15 |
| 7 | Black-winged Stilt | *Himantopus himantopus* | 13 |
| 8 | White-tailed Lapwing | *Vanellus leucurus* | 6 |
| 9 | Common Sandpiper | *Actitis hypoleucos* | 2 |
| 10 | Kentish Plover | *Charadrius alexandrinus* | 30 |
| 11 | Little ring plover | *Charadrius dubius* | 50 |
| 12 | Pied Kingfisher | *Ceryle rudis* | 3 |
| 13 | Water Pipit | *Anthus spinoletta* | 1 |
| 14 | Western Yellow Wagtail | *Motacilla flava* | 3 |

Other Fauna species found/reported during the surveys.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Common Name | Scientific Name | Note |
| 1 | Marsh Frog | *Pelophylax (Rana) ridibundus* | Reported by locals |
| 2 | Mudskipper | *Subfamily: Oxudercinae* | Observed |
| 3 |  | *Tilapia zilli* | Dominant |
| 4 |  | *Liza abu* | Observed |

Field measurements of water sample.

| Parameters | Station 1 | Station2 |
| --- | --- | --- |
| Air Temperature ( C° ) | 16.1 | 15 |
| Water Temperature ( C° ) | 14.2 | 12.3 |
| pH | 8.70 | 8.66 |
| Conductivity (ms/cm) | 10.34 | 9.3 |
| Salinity (ppt) | 5.8 | 5.2 |
| Dissolve Oxygen (mg/l) | 12.50 | 10.80 |
| Dissolve Oxygen (%) | 118.1 | 98.6 |
| Turbidity (NTU) | 2.84 | 3.97 |
| Depth (m) | 0.25 | >10 |

**ANNEX 2 - List of Villages represented in the Ramsar site Map**

| **ID** | **Village** | **ID** | **Village** | **ID** | **Village** |
| --- | --- | --- | --- | --- | --- |
| 1 | Emarat 2 Village | 126 | Village Akhlyfa | 251 | AL Abu Ewaid |
| 2 | Bager 2 Village | 127 | Village Aljeboot | 252 | AL Sachit |
| 3 | Al hendya Village | 128 | Village Alaly | 253 | Al-mubader |
| 4 | Drhamea Village | 129 | Um Alshweegh | 254 | Al-Toman |
| 5 | Door Betro chemical Village | 130 | Village Alsamayer | 255 | Al Shimamrah |
| 6 | Juebda Village | 131 | Village Altraba | 256 | Kasaibaa |
| 7 | Al Najmea Al Gharbya Village | 132 | village Alshlha | 257 | Karmaat Hassan |
| 8 | South Najmi Zubair | 133 | Village Alsuea | 258 | ALRisaalah |
| 9 | Al Khoissat | 134 | Village Bet Faleh | 259 | Am Shajaa |
| 10 | Najmi 17 | 135 | Village Aldrweza | 260 | AL Thamaar |
| 11 | Door North Rumaila oil | 136 | Village Large Khamysa | 261 | AL Bthij and AL Shami |
| 12 | Wast Kreytat | 137 | Village Alkhas | 262 | AL Esmaaeal |
| 13 | Shaeba SKK | 138 | Village Alhrd | 263 | AL Mizlik |
| 14 | East Khor | 139 | Village Abo Ktaeeb | 264 | AL Abraat |
| 15 | Door Al-Jawad (Iron and Steel) | 140 | Village Almahyat | 265 | AL Ganamaa |
| 16 | Snam Village | 141 | Village Aljry | 266 | Al bo Ziyad |
| 17 | Almuylhat North Village | 142 | Village South Hawash | 267 | ALDawood |
| 18 | Al Karta North Village | 143 | Village Abo Khreeb | 268 | - |
| 19 | Al-Aekalat | 144 | Village Bahla | 269 | Al-Rumthan |
| 20 | Al fayha 3 (Aeraitham) | 145 | Alhusinat | 270 | Al-awad |
| 21 | Al Sadiq | 146 | abdAl- razah | 271 | Al-Naeef |
| 22 | North Najmi (Sparse) | 147 | komaizAl-jushet | 272 | Hajaam AL Atiabaa |
| 23 | Village Al Asmeda | 148 | al-oweja | 273 | Al-Amirat |
| 24 | East Safwan 6 (Sparse) | 149 | Al-jader | 274 | Al-Safafia'a |
| 25 | Door Civil Engineering | 150 | Al-Asriyah | 275 | Al-mowijad |
| 26 | Village/ Al sanajer | 151 | al-boAlwan | 276 | Al-lakiwat |
| 27 | Al Maa'mer | 152 | secondAl-zuhariyah (salem mohamed | 277 | al-shaheed |
| 28 | Door Al mared Village | 153 | al-furaihy (al-alalimain ) | 278 | Abo Ghanam |
| 29 | Door refinry Village | 154 | al-buty | 279 | Hajaam Afndi |
| 30 | Al masharea Naftea Village | 155 | Al-juhar | 280 | Hajaam |
| 31 | Door Noab thubat & KahrbaaVillage | 156 | Abo hawala | 281 | Am Kiazraana |
| 32 | Dawajen Village | 157 | Al boTayot | 282 | Al-homran |
| 33 | Door Al Asmeda Village | 158 | Al-Mahmod | 283 | Bani Saeed |
| 34 | Door Al Jawya Village | 159 | Al-SadaAndAl-shafijat | 284 | AL Dabaat |
| 35 | Alsayrya Village | 160 | Al-Ebidat | 285 | east OmAl-roos (Al-bo Juma'a) |
| 36 | Alheas Village | 161 | Al-mustafawiyah | 286 | south OmAl-roos fromAl-bo Juma'a |
| 37 | AlKorya Village | 162 | Al bo juma'a | 287 | Al-Farha |
| 38 | AlHakeem Village | 163 | Area 22 oil (oil Qu.) | 288 | 2 Abu Hawaan |
| 39 | Village/ Abo sakheer | 164 | Al-Ajel | 289 | AL Kathim |
| 40 | Village/ Al Khoora | 165 | Al-Barhuos | 290 | AL Nakailah |
| 41 | Village Hamryan | 166 | Said Shwuea | 291 | AL Rasol /2 |
| 42 | Village Al halaf | 167 | AL Eslah | 292 | Al Bo Hawala |
| 43 | Village Abo Mahmer | 168 | Kather | 293 | Al -Bader |
| 44 | Village Abo meleh | 169 | AL Sair (AL Saair ) | 294 | Al-hazrah |
| 45 | Village Al tuerash | 170 | Said Maanagi | 295 | eastAl-Aritham |
| 46 | Village Al Hassan Al Askary | 171 | Al Ali | 296 | Al-hussam |
| 47 | Village Al Murthatha | 172 | Al Sulaman | 297 | AL Naser (AL Ansaar) |
| 48 | Village Sayed Shuada | 173 | Al-bohan | 298 | Naser HussainAndAl-Hadara Houme |
| 49 | Village Al Entsar | 174 | Dayish | 299 | Hameed Hadib |
| 50 | Village Al Shakhtea | 175 | Al-Zugaiby | 300 | Al-Aia |
| 51 | Village Anakhlat | 176 | Khuwajira | 301 | Al-shaty |
| 52 | Village Bet awafy | 177 | Al-bo Jary | 302 | Mutashar Shatab |
| 53 | Village Alalwa | 178 | Al-AbdAl-Hussain | 303 | AL Bu hafaa |
| 54 | Village Alhadama | 179 | Al-gawalib | 304 | AL BuHamdaan |
| 55 | Village Alkhysat | 180 | Al-bo hamadAl-husinat (Al-hawas ) | 305 | AL Shawaleesh |
| 56 | Village Al Tuba & nakhyla | 181 | AL Jadooeaa | 306 | Hassan Zamil |
| 57 | Village Al Kheet | 182 | AL Awawiah | 307 | AL Mansor |
| 58 | Al-Shahla Al-Mohammdia | 183 | AL Nasir | 308 | AL BuHadraa |
| 59 | Beut Al-Taqa | 184 | Al-Abarat | 309 | Al Muwajed Jenebat |
| 60 | Al Mhela Village | 185 | NorthAl-Haramy | 310 | Kut Mahniaa |
| 61 | Al Amya 1 Village | 186 | Al-UwaeedAl-Mutar | 311 | Kut Jaar Alaa |
| 62 | Kut Alzen Village | 187 | Siad Hussain Naama | 312 | Al Zahra |
| 63 | AL Sybaa 1 Village | 188 | Al-khanjar | 313 | ALSihail |
| 64 | Um meaj 2 | 189 | AL Amyiaa | 314 | AL Salhiia |
| 65 | Um meaj 1 | 190 | Mashargaa | 315 | Mataasher Falih |
| 66 | Village Hleajea 2 | 191 | AL BuJasim | 316 | AL Raasoul (Abud AL Jaleel Kair Ala ) |
| 67 | Village Meah Abo Breadya | 192 | AL Araaj and AL Shahlaawiaa | 317 | AboAl-Ruwaish |
| 68 | Village Mzeraa | 193 | AL Nasaar | 318 | AL-Aqarat |
| 69 | Village Silk Atyaa | 194 | AL Sahaalat | 319 | Hischa |
| 70 | Village Door Al Thalet | 195 | Al-Majry | 320 | Al Sihahki |
| 71 | Al-Muardha 2 | 196 | Al-Bank | 321 | Miasaloon |
| 72 | Village Almhamed | 197 | Al-bo HamodyAl-Sahar | 322 | AL Shimoos |
| 73 | Village Alsalam | 198 | FirstAl-Kawaf | 323 | 1 June |
| 74 | Village Almhyat | 199 | secondAl-Kawaf | 324 | Al-bo Hamad |
| 75 | Village Albatat | 200 | dara'an | 325 | AL Mutaajwezeen |
| 76 | Village Bany skeen | 201 | Said Thiyab | 326 | Al-Noman |
| 77 | Village Alnaser | 202 | AL Grafiyaa | 327 | Al-shajan |
| 78 | Village Albo wawi | 203 | Bani Mislim | 328 | Barijah |
| 79 | Village Alshryba | 204 | AL Bu Hamidi | 329 | AL Shweli |
| 80 | Village Almanasyer | 205 | Am AL Wadaa | 330 | AL Bu Hussein |
| 81 | Village Khthabo | 206 | Muwelhiyah | 331 | SakbanAl-Ali |
| 82 | Village Naher Umr | 207 | Al-rumaid | 332 | Al Kulibah |
| 83 | Village Alzawen | 208 | khilaiwe | 333 | Kathim Alwaan /AL Thiyaabat |
| 84 | Village Aljrahy | 209 | AL Bu kaleefa | 334 | AL Sadaaga |
| 85 | Village Alshramkha | 210 | AL Bu Aewiad | 335 | 1-Ansar Alhussain |
| 86 | Village Hay Alamel 1 | 211 | AL Hamamaa | 336 | 1-Om Ishgag |
| 87 | Village Abo Alshlook | 212 | AL Hathra tian | 337 | 1-Almizbaniah |
| 88 | Village Shhaeb Alzrkanya | 213 | AL Ziyaad | 338 | 3-Alzubaidat |
| 89 | Village Alathba & Kahen | 214 | AL Kurdiaa | 339 | 6-Brick factories |
| 90 | Village meeah Alsura | 215 | AL Basharaa | 340 | 2 – Abu Sabee |
| 91 | Village Beat wafi | 216 | AL Kaamsaan | 341 | 4 – Fakir Tahir |
| 92 | Village Alshafi Abo basiry | 217 | Haasn Lami | 342 | 5 – Abdulkareem Kadeem Alsadkan |
| 93 | Village Alshnana | 218 | Al-bo Hajy | 343 | 3 – Aljidaed |
| 94 | Village Tleaa Alzaween | 219 | Mutlak Abud Alaa Bakut /AL Saraafian | 344 | 9-Alimam Alhussein |
| 95 | Village um masjed | 220 | AL Sharamtaa | 345 | 1-Alkurah |
| 96 | Kharkhara | 221 | AL Kamisiaa | 346 | 3-Alaythah (wide side) |
| 97 | Village Bet khzeel | 222 | AL Nwashi (Hassan Mansoor ) | 347 | Abu Garab |
| 98 | Village Alhaymoon | 223 | Hajaam AL Nahi and Katlaat | 348 | 2-Gazah |
| 99 | Village Bet Abad Almkroon | 224 | Sporadic housing | 349 | 3-Altarabah |
| 100 | Village Alshaty | 225 | AbdAl-wahedAbdAl-Hassan | 350 | 4-Bait Hleel |
| 101 | Al-sheganba 1 | 226 | Al-Sumood | 351 | 1-Alqudis |
| 102 | Al-sekhreacha | 227 | Said Kadhim Said Baqer | 352 | 2-Aladarah Almahaliah |
| 103 | village Al Dawra | 228 | AL Abu Kalaf | 353 | 1-Alhashriah |
| 104 | Hawz Sauth Qushla | 229 | AL Zraaj and AL Medaan | 354 | Al Frejat |
| 105 | Village/Kut Alkwam | 230 | AL Rahmaa | 355 | Al Hameed and Diftalah |
| 106 | Village/Kut AlJweaa | 231 | AbdAl-Saheb | 356 | 1-Alwatan |
| 107 | Village /Mzareaa Albean | 232 | Al-bo Ulaian | 357 | 6-Karamli |
| 108 | Jurf Al-Milh | 233 | AL Obaaid | 358 | 6 – Aldunmaat |
| 109 | Al-zirijy | 234 | Al-Muzarea'a | 359 | 3- Alhifirah |
| 110 | Villlage Al Lalya | 235 | AL Bandryaat | 360 | 3-Nahar saad |
| 111 | Village Albo Bsairy | 236 | AL Thamiriaa | 361 | 4-Om Ubaidah |
| 112 | Village Abo Dalfa | 237 | Al Jamamlaa | 362 | 4-Abu Jissanh |
| 113 | Village Almlfaty | 238 | AL Shidood | 363 | 1-Albahathah |
| 114 | Village Abo khrab | 239 | AL Bu Hamdaan | 364 | 13-Maamal Alwaraq (paper factory) |
| 115 | Village Al shahban | 240 | AL Afreat | 365 | Abu Kasaf |
| 116 | Village AlHawafed | 241 | Al-Hesasera | 366 | Almutabag & Almteebig |
| 117 | Village Albo msheah | 242 | Al-kawea'a | 367 | 5-Alikeb |
| 118 | Village Alabarat | 243 | Al-Saliteyah (Al-baejat ) | 368 | 1-Bait Ateah |
| 119 | Village Aljlal | 244 | OmAl-Dehen | 369 | Al Kataa |
| 120 | Village Alhydadya | 245 | westAl-Jazra | 370 | 3-Alkifah |
| 121 | Village Alalwan | 246 | AL BuAli | 371 | 1-Abu Alalaa |
| 122 | Village Alfraj | 247 | AL Abaaid (Hussian Abud ) | 372 | 2-Abd Ali |
| 123 | Village Alswad | 248 | Al-DananiyahAnd OmAl-eash | 373 | 1-Alfaatoos |
| 124 | Village Aljeader | 249 | AL Garianaat |  |  |
| 125 | Village Abo khzlan | 250 | AL Rathwaan |  |  |