

A photograph of a malleefowl bird standing on a mound of earth. The bird has a grey head and neck, a brownish-orange breast, and a body covered in intricate black, white, and brown patterns. It is standing on a dark, rocky mound. The background is a blurred natural setting with green and brown foliage.

Targeted Malleefowl Mound Survey

Bremer Bay Airfield April 2024

**Supplementary Report Prepared
For The Shire of Jerramungup**

9 April 2024

Steve Elson

Supplementary Report (Targeted Malleefowl Mound Survey, Bremer Bay Airfield April 2024)

In support of the recent **Fauna Survey, Targeted Fauna Survey of the Bremer Bay Airfield February 2024**. Additional ground truthing activities were undertaken to clarify the presence of active/inactive malleefowl mounds that may occur within Survey Areas 1 and 3.

Several detailed and systematic ground truthing activities were carried out on the 28th of March and on the 5th, 8th and 9th of April 2024, these search activities were carried out with the support of a handheld GPS unit and Geo Tracker app downloaded to a mobile phone.

The additional meandering surveys are in support of the previous on ground Fauna Surveys and targeted Fauna Surveys that were carried out on the 7th of December 2023 and on the 14th and 15th of December 2023 and again on the 12th of January 2024.

as mentioned in the previous Fauna Survey report **3.3 Field Surveys (Fauna Survey Techniques)**, the Surveys were carried out using pink flagging tape placed at 25m intervals along the fence line and along the fire-breaks surrounding the fenced off section of the Bremer Bay Airfield, in regards to the Malleefowl mound Surveys, the original ground truthing exercise's were carried out within Survey Areas 1 and 3.

In support of this report an additional site was surveyed just North of Survey Area 3, for the purpose of this report the Survey Area will be referred to as Survey Area 4, the Key objectives of surveying the additional site was to undertake a ground truthing activity to identify active/inactive Malleefowl Mounds that may occur within Survey Area 4.

The results of the recent ground truthing activities identified no additional active/inactive Malleefowl mounds within Survey Areas 1,3 and the new Survey Area 4, the survey lines (highlighted in red) as identified within the attached maps indicate a meandering style survey approach, this was due to the diverse sub-Mallee habitat vegetation communities that often lacked identifiable transitional zones.

In support of the on-ground survey efforts, habitat systems supporting low Heath and Mallee shrublands <1m were surveyed from a greater distance between each survey line, this was due to the increased visibility of identifying potential active/inactive Malleefowl Mounds amongst low vegetation. In regards to the dense vegetation communities, the survey lines were as little as 5-10m apart, especially in areas supporting Mallee Eucalypt Woodlands, Banksia dominated Shrublands and *Phymatocarpus* Shrublands.

Please Note: The attached maps and information contained within this supplementary report should be referenced in conjunction with the original Fauna Survey of the Bremer Bay Airfield.

3 Survey Areas covered during the Ground Truthing activities within Local Government Reserve 24521.

Total Area Traversed = 42km



SURVEY AREA 3 (SURVEY 1)



Survey Area 3 Starting Point (Survey 1)
Trip: 30 Mar 2024 12:29:35 pm 142° 37.78 mi

VISITED EDIT DELETE

34°22'55.6"S, 119°19'27.1"E
-34.382117, 119.324188

5 Apr 2024 8:22:25 am

Speed: 0.53 mph
Elevation: 53 ft
Time from start: 139:52:48
Distance from start: 553 mi

Survey Area 3 Finishing Point (Survey 1)
Trip: 30 Mar 2024 12:29:35 pm 143° 37.77 m

VISITED EDIT DELETE

34°22'56"S, 119°19'25.8"E
-34.382215, 119.323823

5 Apr 2024 1:50:38 pm

Speed: 0 mph
Elevation: 59 ft
Time from start: 145:21:01
Distance from start: 559 mi

Mallee Shrubland Vegetation Community
Trip: 30 Mar 2024 12:29:35 pm 142° 37.82 mi

VISITED EDIT DELETE

34°22'40.1"S, 119°19'55.5"E
-34.377797, 119.332083

5 Apr 2024 9:19:12 am

Speed: 1 mph
Elevation: 31 ft
Time from start: 140:49:35
Distance from start: 554 mi

SURVEY AREA 1 (SURVEY 2)



Inactive Malleefowl Mound

Trip: 30 Mar 2024 12:29:35 pm

VISITED EDIT DELETE

34°23'01.4"S, 119°19'43.1"E
-34.383717, 119.328643

8 Apr 2024 7:55:00 am

Speed: 2.03 mph
Elevation: 22 ft
Time from start: 211:25:23
Distance from start: 560 mi



Survey Site 1 Finishing Point (Survey 2)

Trip: 30 Mar 2024 12:29:35 pm

VISITED EDIT DELETE

34°22'53"S, 119°19'57.2"E
-34.381397, 119.332545

8 Apr 2024 11:18:07 am

Speed: 2 mph
Elevation: 14 ft
Time from start: 214:48:30
Distance from start: 565 mi

Seasonal Ephemeral wetland system

Trip: 30 Mar 2024 12:29:35 pm

VISITED EDIT DELETE

34°22'59.7"S, 119°19'43.3"E
-34.383245, 119.328707

8 Apr 2024 8:07:20 am

Speed: 1.53 mph
Elevation: 53 ft
Time from start: 211:37:43
Distance from start: 560 mi

Survey Area 1 Starting Point (Survey 2)

Trip: 30 Mar 2024 12:29:35 pm

VISITED EDIT DELETE

34°23'03.2"S, 119°19'26.6"E
-34.384210, 119.324048

8 Apr 2024 7:18:23 am

Speed: 1.9 mph
Elevation: 8 ft
Time from start: 210:48:46
Distance from start: 560 mi

Mallee Woodland Vegetation Community

Trip: 30 Mar 2024 12:29:35 pm

VISITED EDIT DELETE

34°23'03.2"S, 119°19'26.7"E
-34.384222, 119.324090

5 Apr 2024 1:57:17 pm

Speed: 0 mph
Course: 56°
Elevation: 51 ft
Accuracy: 6 ft



SURVEY AREA 1 (SURVEY 3)



Low-Mallee Heath Vegetation Community

Trip: 30 Mar 2024 12:29:35 pm 142° 38.16 mi

VISITED EDIT DELETE

34°22'51.9"S, 119°20'12.3"E
-34.381080, 119.336760

9 Apr 2024 11:22:24 am

Speed: 0.94 mph
Elevation: 10 ft
Time from start: 238:52:47
Distance from start: 570 mi

Survey Area 1 Starting Point (Survey 3)

Trip: 30 Mar 2024 12:29:35 pm 142° 38.08 mi

VISITED EDIT DELETE

34°22'55.4"S, 119°19'58.7"E
-34.382045, 119.332985

8 Apr 2024 11:55:06 am

Speed: 0 mph
Course: 90°
Elevation: -7 ft
Accuracy: 5 ft

Survey Area 1 Finishing Point (Survey 3)

Trip: 30 Mar 2024 12:29:35 pm 142° 38.2 mi

VISITED EDIT DELETE

34°23'01.9"S, 119°20'01.9"E
-34.383853, 119.333853

8 Apr 2024 1:07:09 pm

Speed: 2.39 mph
Elevation: 10 ft
Time from start: 216:37:32
Distance from start: 567 mi



SURVEY AREA 1 (SURVEY 4)



Survey Area 1 Starting Point (Survey 4)
 Trip: 30 Mar 2024 12:29:35 pm 141°
 ← 38.34 mi

VISITED EDIT DELETE

34°22'56"S, 119°20'23.9"E
 -34.382223, 119.339978

9 Apr 2024 7:32:29 am

Speed: 0.23 mph
 Elevation: 5 ft
 Time from start: 235:02:52
 Distance from start: 567 mi

Survey Area 1 Finishing Point (Survey 4)
 Trip: 30 Mar 2024 12:29:35 pm 141°
 ← 38.29 mi

VISITED EDIT DELETE

34°22'54.9"S, 119°20'21.1"E
 -34.381908, 119.339185

9 Apr 2024 11:27:19 am

Speed: 2.8 mph
 Elevation: 5 ft
 Time from start: 238:57:42
 Distance from start: 570 mi

Low-Mallee Shrubland
 Trip: 30 Mar 2024 12:29:35 pm 142°
 ← 38.28 mi

VISITED EDIT DELETE

34°22'59.7"S, 119°20'12"E
 -34.383263, 119.336653

9 Apr 2024 9:52:35 am

Speed: 1.66 mph
 Elevation: 6 ft
 Time from start: 237:22:58
 Distance from start: 568 mi



Banksia Shrubland (B media, B allieacea)
 Trip: 30 Mar 2024 12:29:35 pm 142°
 ← 38.32 mi

VISITED EDIT DELETE

34°22'59.5"S, 119°20'16.3"E
 -34.383182, 119.337865

9 Apr 2024 9:34:31 am

Speed: 1.98 mph
 Course: 136°
 Elevation: -2 ft
 Accuracy: 5 ft



SURVEY AREA 4 (SURVEY 5)



Survey Area 4 Starting Point (Survey 5)
142°
Trip: 30 Mar 2024 12:29:35 pm ← 37.33 mi

VISITED EDIT DELETE

34°22'27.6"S, 119°19'25.7"E
-34.374323, 119.323813

9 Apr 2024 11:39:33 am

Speed: 2.33 mph
Elevation: -59 ft
Time from start: 239:09:56
Distance from start: 572 mi

Survey Area 4 finishing Point (Survey 5)
141°
Trip: 30 Mar 2024 12:29:35 pm ← 37.82 mi

VISITED EDIT DELETE

34°22'35.8"S, 119°20'03.6"E
-34.376602, 119.334320

9 Apr 2024 1:51:41 pm

Speed: 0.64 mph
Elevation: 25 ft
Time from start: 241:22:04
Distance from start: 575 mi

INACTIVE MALLEEFOWL MOUND LOCATED IN SURVEY AREA 1



Photo facing the South



Photo Facing the East



Photo Facing the West



Photo Facing the South-East



Photo Facing South, taken at 15m

Examination of the nest mound including raking through the soil profile revealed no evidence of Egg shells.