

KELLERBERRIN

LAKE BAANDEE

WOODANILLING

BILLY LIGHT  
(DIRTY SWAMP)

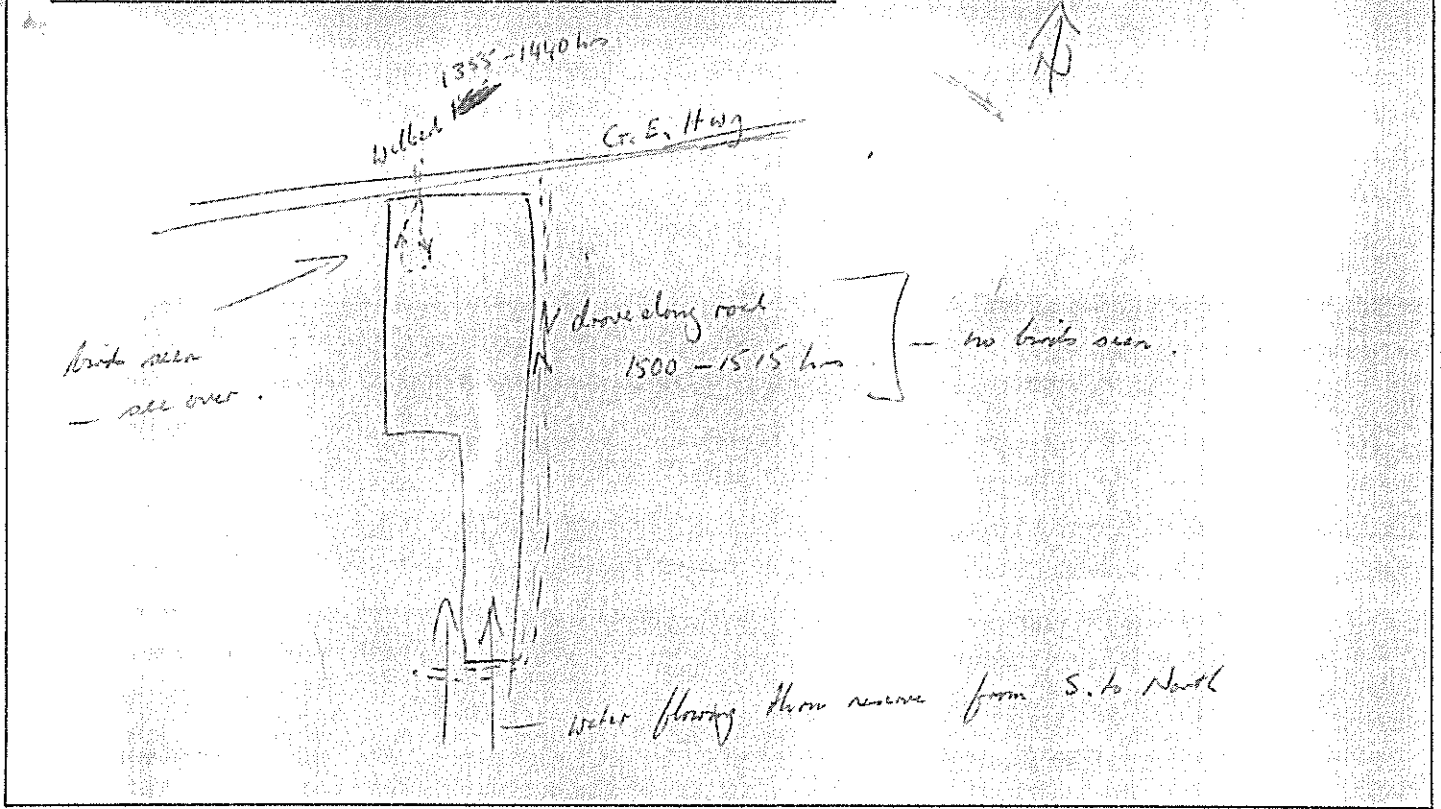
AUGUSTA-  
MARGARET RIVER

BLACKWOOD RIVER

LK STH SIDE GREAT EASTERN HWY BETWEEN  
DODD LAHINE & BAANDEE



1. SKETCH MAP. (ROUTE OF INSPECTION SHOULD BE INDICATED.)



2. WATER SAMPLES TAKEN? .....

IF YES, HOW MANY?.....Indicate Sampling Sites and Sample Identification on Sketch Map.

3. IN SITU MEASUREMENTS OF WATER QUALITY TAKEN? .....

| SITE   | WATER DEPTH AT SITE | DEPTH OF MEASUREMENTS (surface, bottom etc.) | SALINITY parts/thousand | TEMPERATURE °C | pH | TIME     |
|--|---------------------|--|-------------------------|----------------|----|----------|
| N.W. corner of Reserve, between Hwy + pipeline | c 0.35 m            | Surface (bucket)                             | 6.3 ppt                 | 15.7 °C        |    | 1445 hrs |
| 2  |                     |  |                         |                |    |          |
| 3  |                     |  |                         |                |    |          |
| 4  |                     |  |                         |                |    |          |
| 5  |                     |  |                         |                |    |          |
| 6  |                     |  |                         |                |    |          |

4. GENERAL COMMENTS ON WETLAND, BIRDS ETC.....

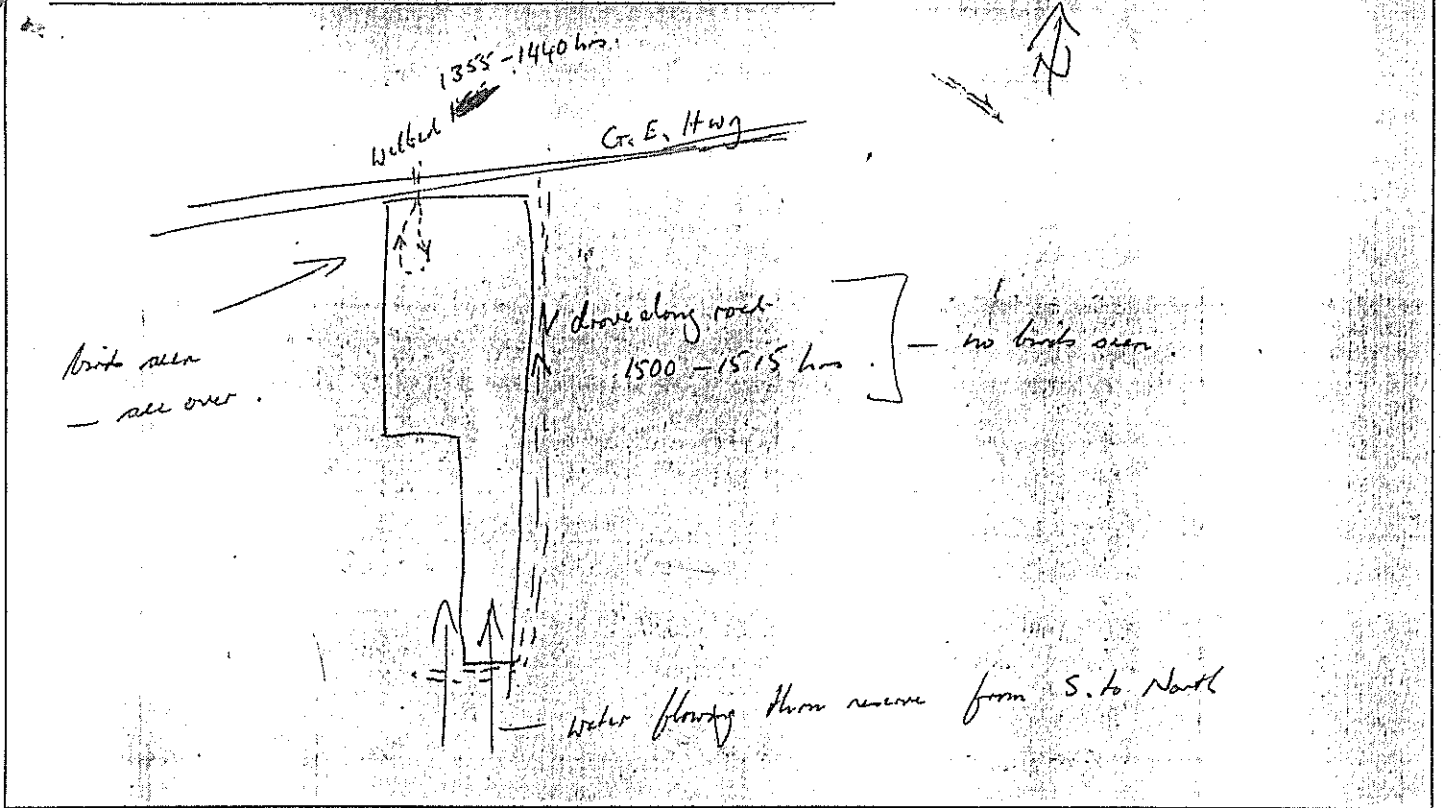
Reserve is an ~~open~~ expanse of water flats + mainly mud and open water (flowing + and shallow < 0.5m) with some bare and islands of low willow trees + scattered Eucalyptus

Photos taken from top of Hairs Hill (50 mm lens + 200 mm)

69: 21 - 31 inst.

A good area for waterbirds - little food apparent.

1. SKETCH MAP. (ROUTE OF INSPECTION SHOULD BE INDICATED.)



2. WATER SAMPLES TAKEN? .....

IF YES, HOW MANY?.....Indicate Sampling Sites and Sample Identification on Sketch Map.

3. IN SITU MEASUREMENTS OF WATER QUALITY TAKEN? .....

| SITE   | WATER DEPTH AT SITE | DEPTH OF MEASUREMENTS (surface, bottom-etc.) | SALINITY parts/thousand | TEMPERATURE °C | PH | TIME      |
|--|---------------------|--|-------------------------|----------------|----|-----------|
| N.W. corner of Reserve, between Hwy + pipeline | c 0.35 m            | Surface (bucket)                             | 6.3 ppt                 | 15.7 °C        |    | 1445 hrs. |
| 1  |                     |  |                         |                |    |           |
| 2  |                     |  |                         |                |    |           |
| 3  |                     |  |                         |                |    |           |
| 4  |                     |  |                         |                |    |           |
| 5  |                     |  |                         |                |    |           |
| 6  |                     |  |                         |                |    |           |

4. GENERAL COMMENTS ON WETLAND, BIRDS ETC.....

Reserve is ex ~~flat~~ response of river flats + mainly mud and open water (flowing and shallow < 0.5m) with sumpires and islands of ~~low~~ tall "tree" shrubs and scattered Acrocyrtus.

Photos taken from top of Horia hill (50 mm lens + 200 mm)

69:21 - 31 inst.

A good area for waterbirds - little food apparent.

DEPARTMENT OF FISHERIES AND WILDLIFE  
WETLAND — WATERBIRD SURVEY SHEET

|          |   |
|----------|---|
| WETLAND  | "Brandegee Lake"  |
| LOCATION | On S. side of Gr. E. Hwy between<br>Dredlocks + Brandee |

|                 |                       |
|-----------------|-----------------------|
| INSPECTED BY    | J. LANE + C. PETERSON |
| INSPECTION DATE | WED 22 AUG 1979       |
| TIME START      | 0730 and 0850         |
| TIME FINISH     | -0800 and -1145       |

|   |                     |
|---|---------------------|
| WATER LEVEL (dry, low, half full, high, full) | Low - Half Full?    |
| DEPTH GAUGE READING (If Installed)            | —                   |
| WATER SALINITY (If Tasted)                    | Measured - see over |

|                    |                          |
|--------------------|--------------------------|
| WEATHER CONDITIONS | Fine, sunny, cool → cool |
| VISIBILITY         | good                     |
| BINOCULARS USED?   | Zenith 8x30 B<br>" 8x56  |

← WATERBIRD SPECIES

| BIRD SPECIES   | LARGEST FLOCK SEEN | TOTAL NUMBER SEEN     | ESTIMATED TOTAL POPULATION | COMMENTS (Nesting, Moulting etc?)   |
|--|--------------------|-----------------------|----------------------------|---|
| 50 - 1145 SURVEY   |                    |                       |                            |   |
| Green Teal   | ca 200             | ca 500-1000           | ca 500-1000                | The most abundant species - flocks of hundreds seen with Red-billed mired in, plus a few White-bellied and Shovellers. No indications of nesting.   |
| Pink-eared Grebe   | ca 90              | <del>ca 150-200</del> | ca 150-250                 | The second most abundant species. Mired (generally) with Green Teal. No indications of nesting.   |
| Black Duck   | 2                  | <del>ca 2-4</del>     | 2-4                        | With the Pink-eared + Green Teal.   |
| Shoveller  | 1                  | 1                     | 1                          | " " " "   |
| Small Grebe  | hundreds           | hundreds              | (ca 300) ca 500            | Hundreds in a large flock resting in shallow water near the island in NE corner of lake. Reported to be nesting - want able to approach closely.  |
| Shelduck   | 1 pair + 3 young   | 1 pair + 3 young      | 1 pair + 3 young           | One pair seen with three downy young to bill from.  |
| Black Swan   | ca 100             | (98)                  | ca 100                     | They were nests counted on island in NE corner of lake. 38 eggs + 1 dead. Two unhatched one egg not too dead.   |
| Red-billed Diver   | ca 250             | ca 150-250            | ca 150-250                 | eggs (blended). One unhatched egg, eggshells and one dead egg - plus other hundreds scattered around edge of lake.  |
| Red-c. Diver   | ca 30              | ca 100-150            | ca 100-150                 | scattered around edge of lake.  |
| Red-n. Diver   | ca 10              | ca 50-100             | ca 50-100                  | " " " "   |
| Coot   | ca 10              | ca 30                 | ca 30                      | In NE corner of lake.   |
| Blue-billed Grebe  | ca 55              | ca 70 + 11            | ca 70 + 11                 | ca 55 adults in vicinity of nesting island in NE corner of lake. 24 empty nests, 6 fresh eggs, 4 with 2 eggs, 1 with 3 eggs, 9 chicks found in amphipod (shrub) nest. 1 dead chick + 1 dead adult found. All nests on ground. |
| Northern Grebe   | 3                  | ca 6                  | ca 6                       | at edge of lake - v. shy.   |
| Red-tailed Tropicbird  | 4                  | 4                     | 4                          | at edge of lake.  |
| White-headed Stilt   | 2                  | 2                     | 2                          | " " " " (ground + amphipod)   |
| White Heron  | —                  | common                | around shore line          |   |
| 5730 - 0800 SURVEY   |                    |                       |                            |   |
| In the <sup>vicinity</sup> of the S. + SW portion of the lake we recorded Black Swans, Green Teal, Shelduck, Blue-billed Grebe, Red-c. Diver, Black, Red-billed and also |                    |                       |                            |   |
| AVOULET  | ca 20              | ca 40                 | —                          |   |
| WANDER STILT   | ca 30              | ca 60                 | —                          |   |
| CURLIN SANDPIPER   | 1                  | 1                     | 1                          |   |

DEPARTMENT OF FISHERIES AND WILDLIFE  
WETLAND — WATERBIRD SURVEY SHEET

|          |  |
|----------|--|
| WETLAND  | Brandee Lake   |
| LOCATION | On S. side of Gr. E. Hwy between<br>Doodlakine + Brandee |

|                 |                      |
|-----------------|----------------------|
| INSPECTED BY    | J. LANE + G. PEARSON |
| INSPECTION DATE | WED 22 AUG 1979      |
| TIME START      | 0730 and 0850        |
| TIME FINISH     | 0800 and 1145        |

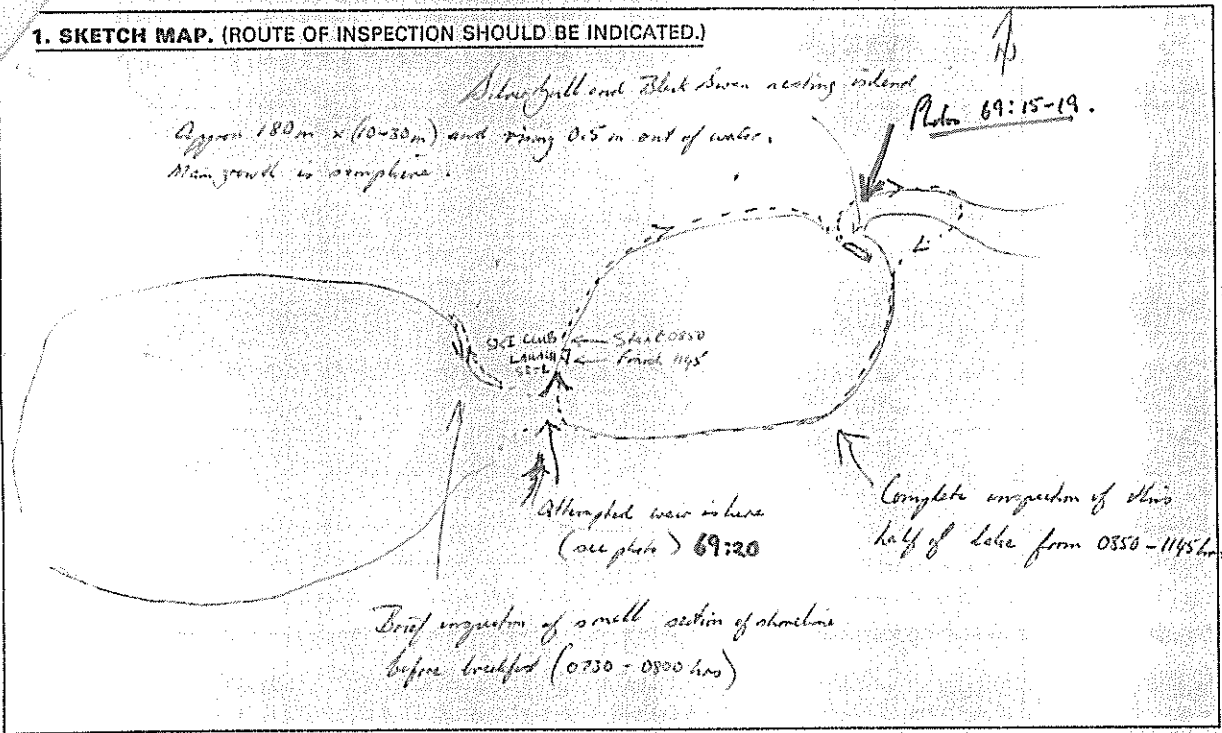
|   |                     |
|---|---------------------|
| WATER LEVEL (dry, low, half full, high, full) | Low - Half Full ?   |
| DEPTH GAUGE READING (If installed)            | —                   |
| WATER SALINITY (If Tasted)                    | Measured - see over |

|                    |                          |
|--------------------|--------------------------|
| WEATHER CONDITIONS | Fine, sunny, cold → cool |
| VISIBILITY         | good                     |
| BINOCULARS USED?   | Zenob 8x30 B<br>" 8x56   |

← BREEDING SPECIES

| BIRD SPECIES  | LARGEST FLOCK SEEN | TOTAL NUMBER SEEN           | ESTIMATED TOTAL POPULATION | COMMENTS (Nesting, Moulting etc?)  |
|---|--------------------|-----------------------------|----------------------------|--|
| 50-1145 SURVEY  |                    |                             |                            |  |
| Grey Duck   | cc 200             | c 500-1000                  | c 500-1000                 | The most abundant species - flocks of hundreds seen with P.e. Duck mixed in, plus a few Black Duck and a Shoveller. No indications of nesting.   |
| Pink-eared Duck   | c 90               | <del>cc 150</del> c 150-250 | c 150-250                  | The second most abundant duck. Mixed (generally) with Grey Teal. No indications of nesting.  |
| Black Duck  | 2                  | <del>cc 2-4</del> 2-4       | 2-4                        | Mixed with Pink-eared + Grey Teal.   |
| Shoveller   | 1                  | 1                           | 1                          | " " " "  |
| Small grebe   | hundreds           | hundreds                    | c 300                      | Hundreds in a large flock nesting in shallow water near the island in NE corner of lake. Appears to be King G. - mixed with to appear closely.   |
| Shelduck  | 1 pair             | 1 pair                      | 1 pair                     | One pair seen with three eggs in nest (prob I) ducklings.  |
| Black Swan  | 1                  | c 100 (98)                  | c 100                      | They were seen nesting on island in NE corner of lake. 28 eggs in nest. One unhatched one egg not hatched. Eggs (black 30). One unhatched egg visible and one dead egg in nest - yellow when fresh.                            |
| Pink Shrike   | c 50               | c 150-250                   | c 150-250                  | Hundreds scattered around edge of lake.  |
| Red-c. Ditcher  | c 20               | cc 100-150                  | cc 100-150                 | Scattered around edge of lake.   |
| Red-n. Ditcher  | c 10               | cc 50-100                   | cc 50-100                  | " " " "  |
| Coot  | c 10               | c 30                        | c 30                       | On NE corner of lake.  |
| Silver Gull   | c 55               | c 70-80                     | c 70-80                    | c 55 adults in vicinity of nesting island in NE corner of lake. 24 empty nests, 6 with 1 egg, 4 with 2 eggs, 1 with 3 eggs, 9 chicks found in same place (where nests). 1 dead chick + 1 dead adult found. All nest on ground. |
| Native Hen  | 3                  | c 6                         | c 6                        | at edge of lake - v. shy.  |
| Red-tailed Tattler  | 4                  | 4                           | 4                          | at edge of lake.   |
| White-fronted Chat  | 2                  | 2                           | 2                          | " " " "  |
| Willie Wagtail  | —                  | —                           | —                          | common around shoreline.   |
| 5730-0800 SURVEY  |                    |                             |                            |  |
| In the <sup>Western</sup> section of the lake we recorded Black Swans, Grey Teal, Shelduck, Silver Gull, Red-capped Ditcher, Duck, Pink Shrike and also |                    |                             |                            |  |
| AVOUCET   | cc 20              | cc 40                       | —                          |  |
| BANDIED STELT   | cc 30              | cc 60                       | —                          |  |
| CURLEW SANDPEPER  | 1                  | 1                           | 1                          |  |

1. SKETCH MAP. (ROUTE OF INSPECTION SHOULD BE INDICATED.)



2. WATER SAMPLES TAKEN? *Yes*

IF YES, HOW MANY? ..... Indicate Sampling Sites and Sample Identification on Sketch Map.

3. IN SITU MEASUREMENTS OF WATER QUALITY TAKEN? .....

| SITE   | WATER DEPTH AT SITE | DEPTH OF MEASUREMENTS (surface, bottom etc.) | SALINITY parts/thousand | TEMPERATURE °C | pH | TSS etc     |
|--|---------------------|--|-------------------------|----------------|----|-------------|
| 1<br>N. end of lobe<br>Club area and<br>20 m from<br>shore | 0.3m                | Surface<br>(Club)                            | 25.6 ppt                | 11.9 °C        |    | 1200.6 hrs. |
| 2  |                     |  |                         |                |    |             |
| 3  |                     |  |                         |                |    |             |
| 4  |                     |  |                         |                |    |             |
| 5  |                     |  |                         |                |    |             |
| 6  |                     |  |                         |                |    |             |

4. GENERAL COMMENTS ON WETLAND, BIRDS ETC. ....

Eastern half of lobe appeared deeper than western half.

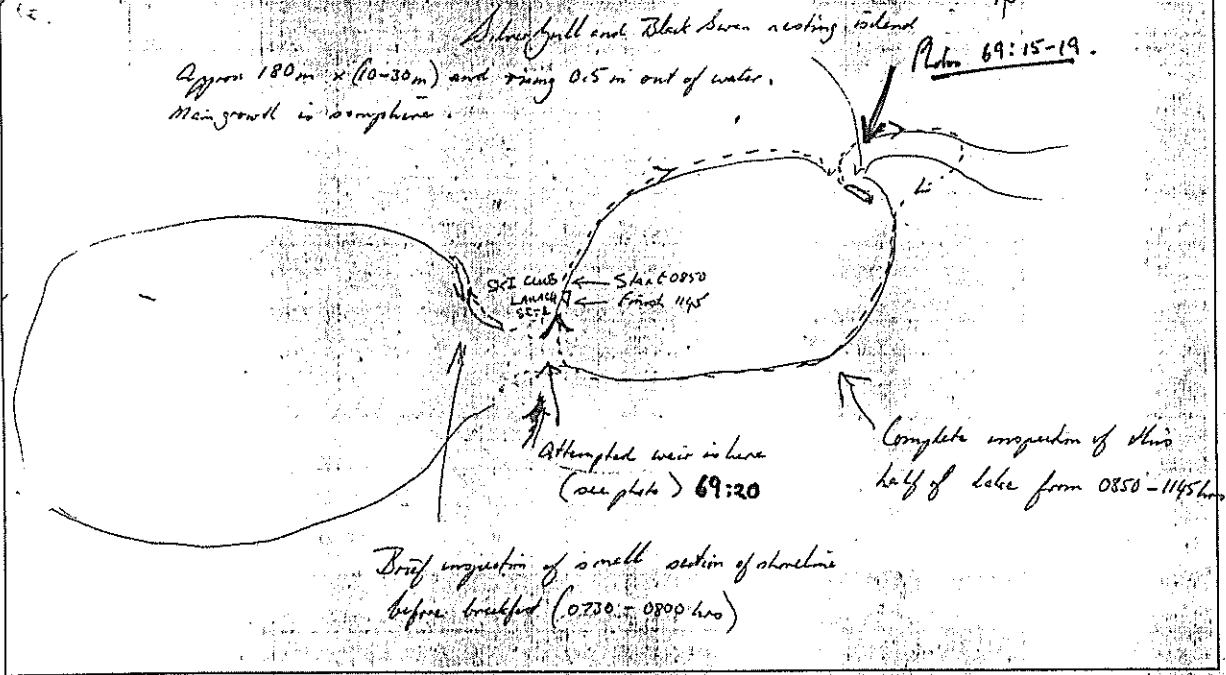
(E. half probably up to 1 meter deep, W. half prob. 0.5 m)

Good growth of *Ruppia* (positive ident. - plants were flowering - clustered flowers against bottom's foot) and also some (*Clara*? - didn't check foot) in eastern half at least. Generally flattened *Compositae* (*Cocconeis*?) in the *Ruppia*. "Sphagnum"-like *Cocconeis* abundant in parts of Eastern ~~lobe~~ half.

Though water of lobe is 26 ppt, there were large shallow pools of what appeared to be fresh water scattered around the lobe. (lobe not connected)  
Probably used as drinking water.

PLEASE FORWARD COMPLETED SHEETS TO: W.A. WILDLIFE RESEARCH CENTRE, P.O. BOX 61 WANNEROO 6065

1. SKETCH MAP. (ROUTE OF INSPECTION SHOULD BE INDICATED.)



2. WATER SAMPLES TAKEN? ~~Yes~~

IF YES, HOW MANY? ..... Indicate Sampling Sites and Sample Identification on Sketch Map.

3. IN SITU MEASUREMENTS OF WATER QUALITY TAKEN? .....

| SITE   | WATER DEPTH AT SITE | DEPTH OF MEASUREMENTS (surface, bottom etc.) | SALINITY parts/thousand | TEMPERATURE °C | pH | Tide     |
|--|---------------------|--|-------------------------|----------------|----|----------|
| 1. N. end of the flat side and 20 m from shore | 0.3m                | surface (bottom)                             | 25.6 ppt                | 11.9°C         |    | 1200 hrs |
| 2.   |                     |  |                         |                |    |          |
| 3.   |                     |  |                         |                |    |          |
| 4.   |                     |  |                         |                |    |          |
| 5.   |                     |  |                         |                |    |          |
| 6.   |                     |  |                         |                |    |          |

4. GENERAL COMMENTS ON WETLAND, BIRDS ETC. ....

Eastern half of lake appeared deeper than western half.  
(E. half probably up to 1 meter deep, W. half prob 0.5m)

Good growth of *Ruppia* (positively identified - plants were flowering - collected flowers against Astoria boat) and also some (Clare? - didn't check book) in eastern half at least. Handfuls flattened *Ceratium* (*Ceramium*?) in the sludge. "Sagittaria"-like *Ceratium* abundant in parts of Eastern ~~testes~~ half.

Though water of lake is c. 26 ppt, there were large shallow pools of what appeared to be fresh water scattered around the lake. (which not connected) Probably used on slinking sides.

PLEASE FORWARD COMPLETED SHEETS TO: W.A. WILDLIFE RESEARCH CENTRE, P.O. BOX 51 WANNEROO 6065



69:15 "Baandee" Leta.  
 Kullerborn? Shiru Wed 22 Aug 79  
 Silver Gull chick.



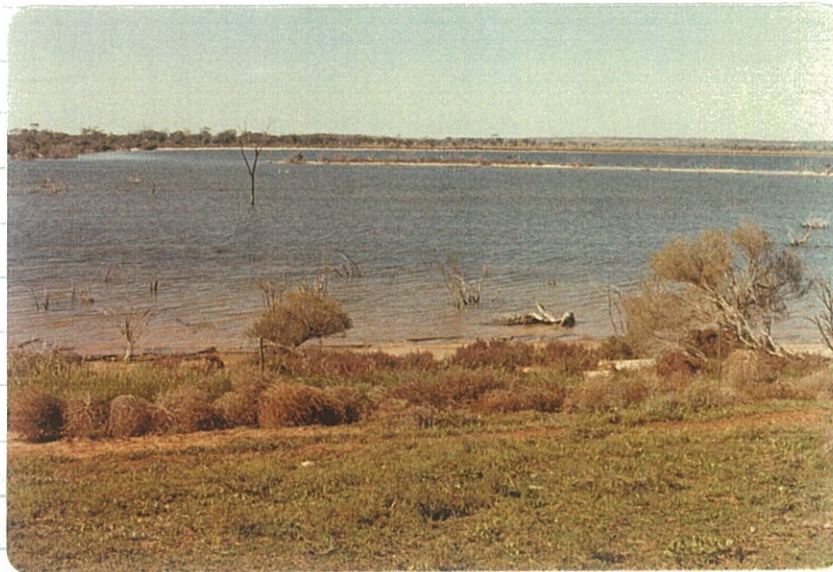
69:16  
 ditto. Swan nest with  
 predated eggnet as well as egg.



69:17  
 ditto.  
 Silver Gull's nest.



69:18 "Baandee" lobe = Kellaburn Shire  
 Wed 22 Aug 79 Nesting island of  
 Black Swans + Silver Gulls. looking West.



69:19 ditto. Nesting island, taken from  
 North shore of lobe.



69:20 SW corner eastern lobe heff.  
 (south side of ski launch area)  
 Attempt made at beating water up in this eastern heff.

MUNRO

LK BAANDEE

DATE

24 / 10 / 78

GEN. COMMENTS

aerial survey

WATER LEVEL

1/2 Full

WATERFOWL

100 Grey Seal

400 Moust duck

Black swans - present

DEPARTMENT OF FISHERIES AND WILDLIFE  
**WETLAND — WATERBIRD SURVEY SHEET**

|          |                    |
|----------|--------------------|
| WETLAND  | <i>LK RAANDEE.</i> |
| LOCATION |                    |

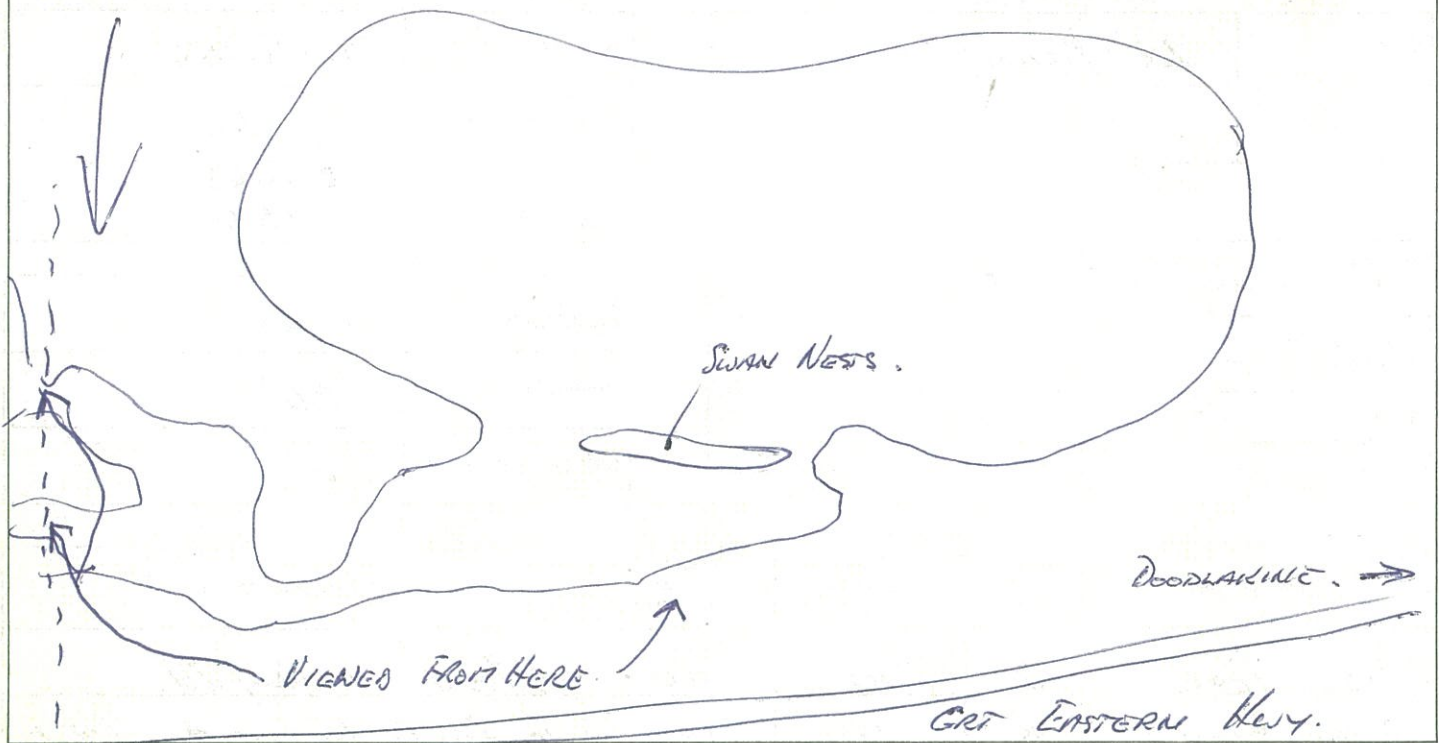
|                 |                  |
|-----------------|------------------|
| INSPECTED BY    | <i>D. MUNRO.</i> |
| INSPECTION DATE | <i>5/10/78.</i>  |
| TIME START      | <i>1445</i>      |
| TIME FINISH     | <i>1530.</i>     |

|   |              |
|---|--------------|
| WATER LEVEL (dry, low, half full, high, full) | <i>High.</i> |
| DEPTH GAUGE READING (If Installed)            | <i>—</i>     |
| WATER SALINITY (If Tasted)                    | <i>—</i>     |

|                    |                                     |
|--------------------|-------------------------------------|
| WEATHER CONDITIONS | <i>FINE</i>                         |
| VISIBILITY         | <i>OK.</i>                          |
| BINOCULARS USED?   | <input checked="" type="checkbox"/> |

|    | BIRD SPECIES          | LARGEST FLOCK SEEN | TOTAL NUMBER SEEN | ESTIMATED TOTAL POPULATION | COMMENTS (Nesting, Moulting etc?)   |
|----|-----------------------|--------------------|-------------------|----------------------------|-------------------------------------|
| 1  | <i>GREY TEAL</i>      | <i>2</i>           | <i>10</i>         | <i>40+</i>                 | <i>1 brood 10 day old.</i>          |
| 2  | <i>BLACK SWAN.</i>    | <i>25</i>          | <i>60</i>         | <i>100</i>                 | <i>10 broods from 10 day old to</i> |
| 3  |                       |                    |                   |                            | <i>dark downy stage</i>             |
| 4  | <i>MOUNTAIN DUCK.</i> | <i>10</i>          | <i>40</i>         | <i>70</i>                  |                                     |
| 5  |                       |                    |                   |                            |                                     |
| 6  |                       |                    |                   |                            |                                     |
| 7  |                       |                    |                   |                            |                                     |
| 8  |                       |                    |                   |                            |                                     |
| 9  |                       |                    |                   |                            |                                     |
| 10 |                       |                    |                   |                            |                                     |
| 11 |                       |                    |                   |                            |                                     |
| 12 |                       |                    |                   |                            |                                     |
| 13 |                       |                    |                   |                            |                                     |
| 14 |                       |                    |                   |                            |                                     |
| 15 |                       |                    |                   |                            |                                     |
| 16 |                       |                    |                   |                            |                                     |
| 17 |                       |                    |                   |                            |                                     |
| 18 |                       |                    |                   |                            |                                     |
| 19 |                       |                    |                   |                            |                                     |
| 20 |                       |                    |                   |                            |                                     |
| 21 |                       |                    |                   |                            |                                     |
| 22 |                       |                    |                   |                            |                                     |
| 23 |                       |                    |                   |                            |                                     |
| 24 |                       |                    |                   |                            |                                     |
| 25 |                       |                    |                   |                            |                                     |
| 26 |                       |                    |                   |                            |                                     |
| 27 |                       |                    |                   |                            |                                     |
| 28 |                       |                    |                   |                            |                                     |
| 29 |                       |                    |                   |                            |                                     |

**1. SKETCH MAP. (ROUTE OF INSPECTION SHOULD BE INDICATED.)**



2. WATER SAMPLES TAKEN? No.

IF YES, HOW MANY?.....Indicate Sampling Sites and Sample Identification on Sketch Map.

3. IN SITU MEASUREMENTS OF WATER QUALITY TAKEN? .....

| SITE | WATER DEPTH AT SITE | DEPTH OF MEASUREMENTS (surface, bottom etc.) | SALINITY parts/thousand | TEMPERATURE °C | pH |  |
|------|---------------------|--|-------------------------|----------------|----|--|
| 1    |                     |  |                         |                |    |  |
| 2    |                     |  |                         |                |    |  |
| 3    |                     |  |                         |                |    |  |
| 4    |                     |  |                         |                |    |  |
| 5    |                     |  |                         |                |    |  |
| 6    |                     |  |                         |                |    |  |

4. GENERAL COMMENTS ON WETLAND, BIRDS ETC. ....