

NOVEMBER 2020  
FOX MONITORING AND CONTROL PROGRAM  
KOALA BEACH BUFFER AND SOUTHERN TWEED COAST



FINAL PROJECT REPORT

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**18 December 2020**

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**WILDSEARCH ENVIRONMENTAL SERVICES**

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## 1.0 Introduction

Wildsearch Environmental Services was contracted by Tweed Shire Council to undertake a fox monitoring and control program on selected properties along the southern Tweed Coast from 2018 until September 2020. This report, however, is for the period ending 24 November 2020. This program was primarily conducted on strategic private lands and land owned and managed by Tweed Shire Council within a 5-kilometre buffer zone around the Koala Beach estate, Pottsville. The intent of the program was to meet statutory obligations on all land owners to control pests on their lands and, in this case, to protect important breeding populations of the Bush Stone-curlew and other ground nesting birds. During the 2019 – 2020 breeding season 15 breeding pairs were located in the Pottsville, Koala Beach, Hastings Point section of the Tweed Coast (Charley 2020). This represents a regionally significant breeding population. Pottsville North Holiday Park supports a regionally significant non-breeding population of this species with up to 24 non-breeding birds gathering at this site during winter. This report summarises the results of the 2020 monitoring / control program and the 2018 – 2020 camera monitoring.

## 2.0 Location of Project Area

The 2020 program took place on four private properties and one parcel of land managed by Tweed Shire Council (see **Figure 1**). All sites were between Round Mountain in the north and Seabreeze Estate, Pottsville in the south. All sites were east of the Pacific Motorway.

## 3.0 Methods

### 3.1 Camera Monitoring

Fox and other vertebrate pest activity were monitored for the duration using four Reconyx and one Swift 3C “heat in motion” cameras. The cameras were maintained at the locations shown at **Figure 2** and **Table 1**. Where possible the images from each camera were downloaded on a weekly basis during the baiting period and on a fortnightly basis during non-baiting periods. The Heath Road camera was removed during school holiday periods to avoid having the camera stolen or otherwise tampered with. The number of individual predators was recorded along with other incidental records such as threatened species observations.



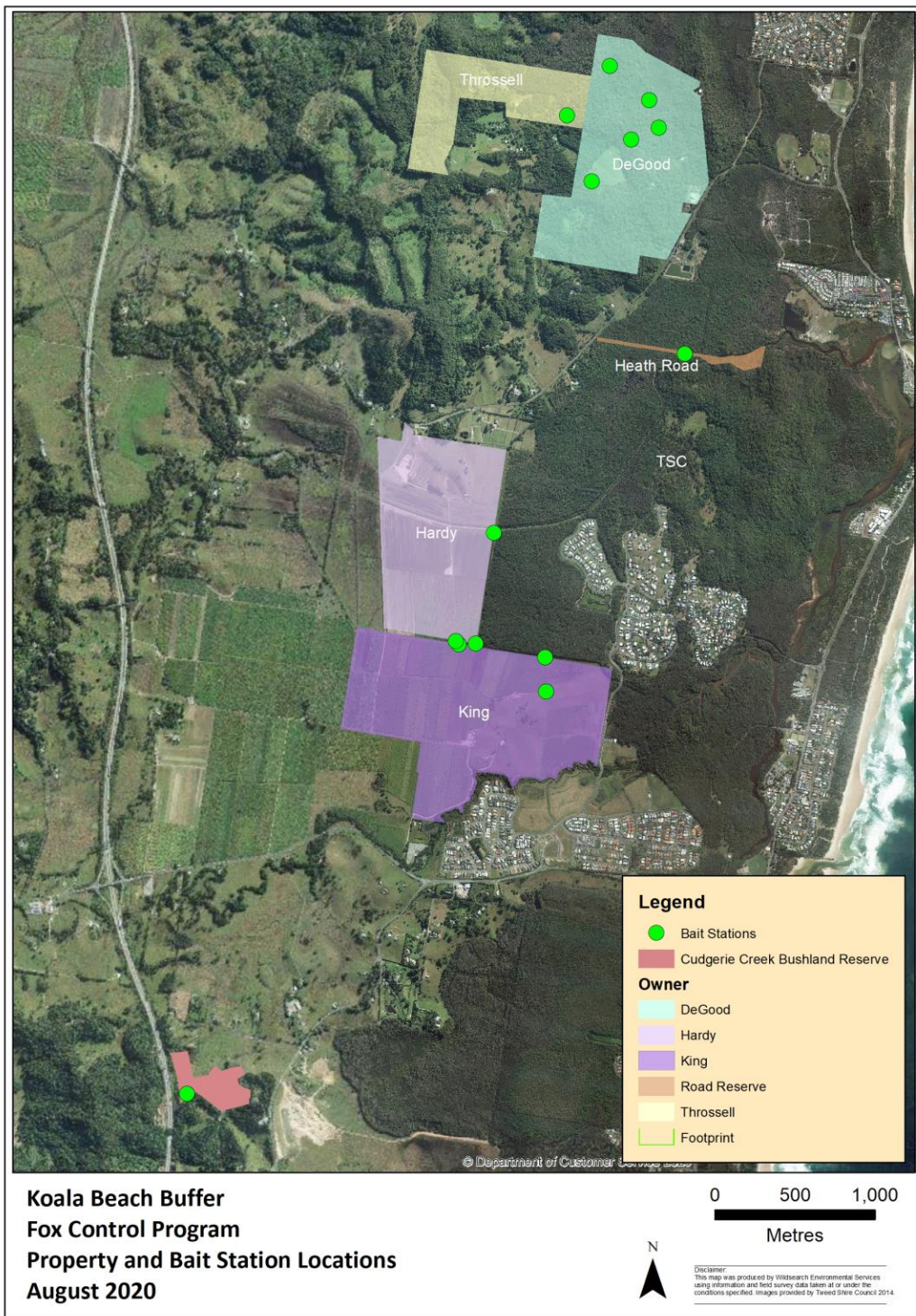


Figure 1: Location of properties and bait-station, Winter 2020



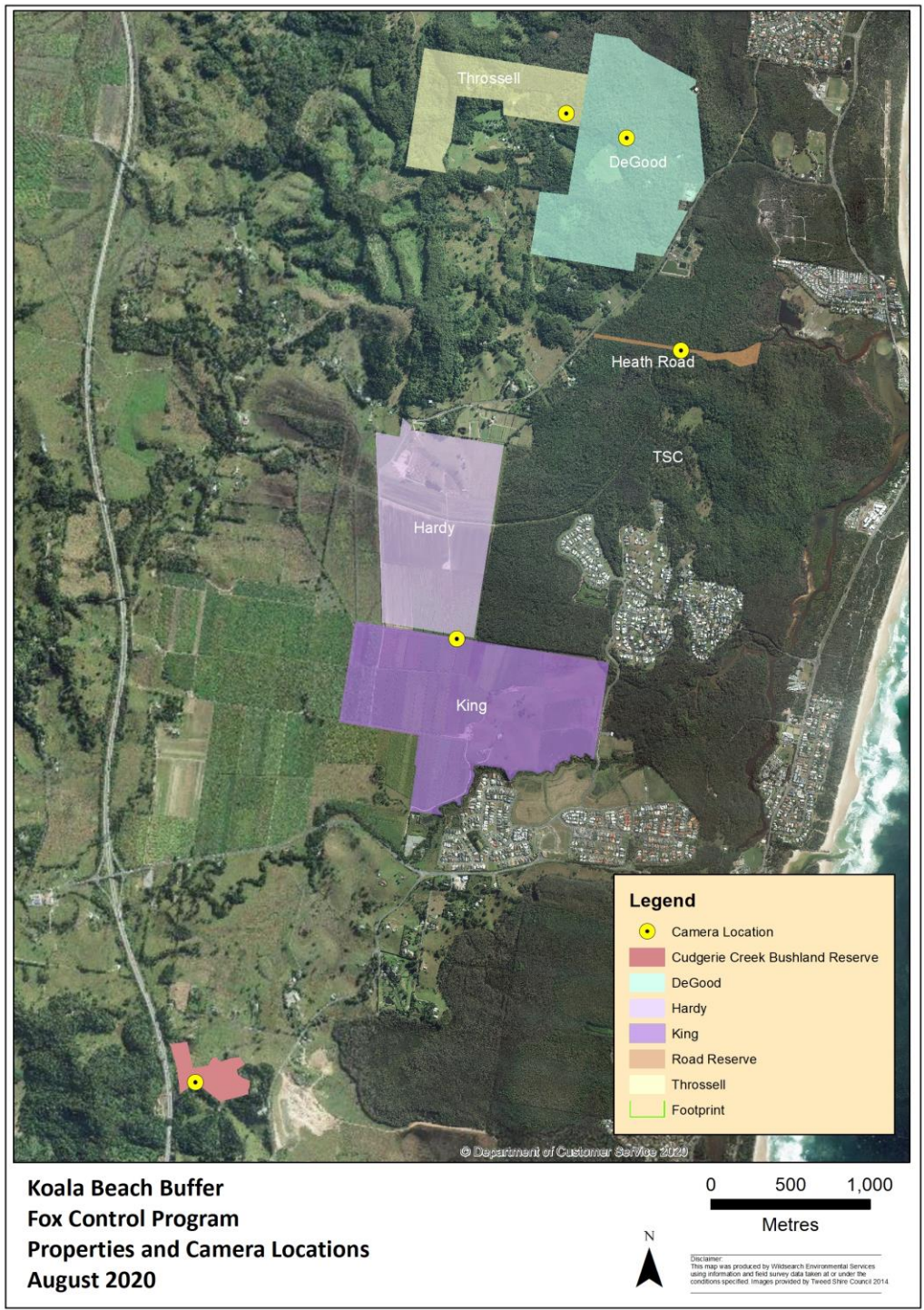


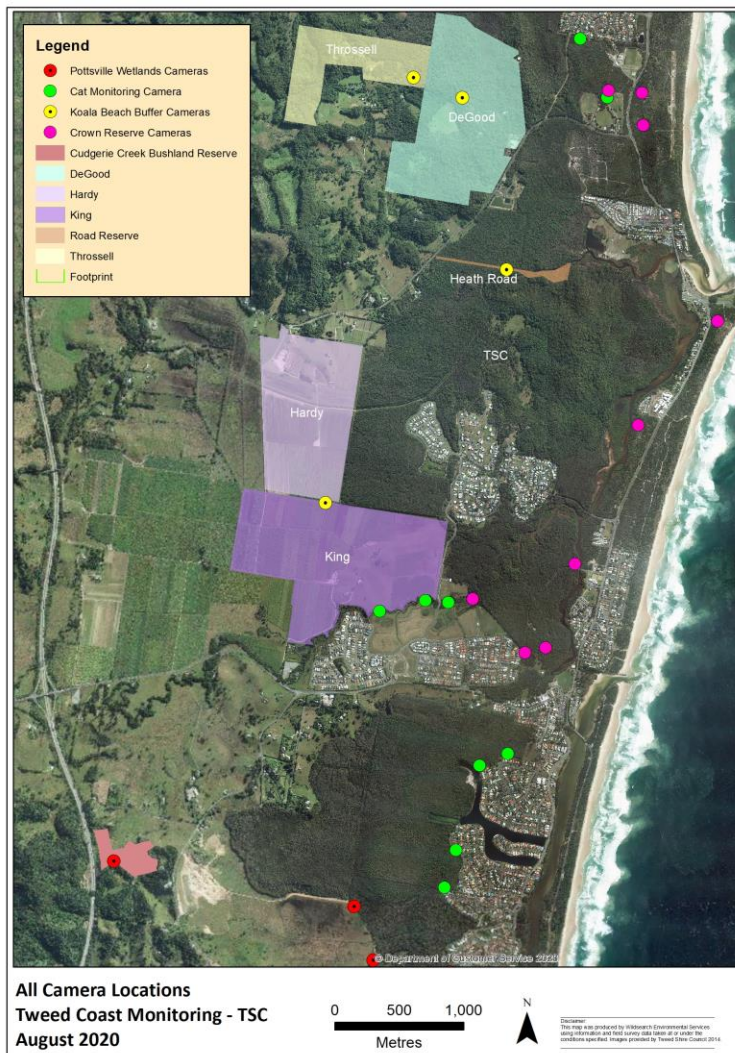
Figure 2: Camera locations, Winter 2020

**Table 1: Koala Beach Buffer, Camera Locations (Map Datum WGS84)**

Location	Camera	Easting	Northing
De Good property - track intersection (Round Mtn)	Camera 5	554566	6864216
Throssell property - track intersection (Round Mtn)	Camera 14	554187	6864371
King Property - North drain track West end	Camera 13	553501	6861068
Heath Road - TSC	Camera 7	554908	6862880

### 3.2 Concurrent Camera Monitoring Programs - Tweed Shire Council

This camera monitoring program is important and targets areas additional to those covered by on-going monitoring programs conducted across the Tweed Coast by Tweed Shire Council. These concurrent programs include: monitoring for cats in high value bushland reserves (8 cameras); vertebrate predator monitoring of Tweed Coast crown reserves managed by Tweed Council (4 – 6 cameras); and, vertebrate pest monitoring at Pottsville Wetlands and Cudgerie Creek Bushland Reserve/Pottsville wetlands, south west of Pottsville (four cameras) (**Figure 3**). Combined, these programs play a significant role in the management of the local Bush Stone-curlew and Koala populations as well as local beach-nesting shorebirds such as the Australian Pied Oystercatcher and Beach Stone-curlew at Hastings Point.



**Figure 3:** Location of all TSC Cameras in the Pottsville, Koala Beach and Hastings Point area, 2020

### 3.3 1080 Baiting Program

The results of the 2020 camera monitoring program indicated that there was a population of foxes across the project area and that there was a need to establish a control program using 1080 baits if the local breeding populations of Bush Stone-curlew, Koala, Common Planigale and other native fauna were to be protected; and, the impact of these foxes on local native fauna was to be reduced. Wild dogs or dingoes were absent during this monitoring period and had not been recorded on the southern properties during the preceding months. Fourteen fresh-meat bait-stations were established (see **Figure 4**), thirteen within the Koala Beach buffer and additional bait-station to the south of the buffer at Cudgerie Creek Bushland Reserve. Bait stations were at intervals of approximately 200 - 400m along the trail networks or at camera locations, as indicated in **Figure 4**. The fresh-meat baits containing 1080 were obtained from the North Coast Local Land Services based in Lismore. Due to the proximity of urban areas all of the fresh-meat baits were buried and tethered to the ground using a tent peg and length of string. This lessened the risk of baits being removed from the baiting site by Torresian Crows and Pied Currawongs and prevented foxes removing the baits and caching them at another location.

Baiting was conducted over a four-week period (4 August – 1 September 2020) and focussed on areas with significant fox activity. The baiting program avoided the school holiday period and other public holidays.

Baits were checked and replaced twice weekly. All untaken baits were collected and buried on site. 1080 fox baits were used and stored in accordance with the Pesticide Control (1080 Bait Products) Order.

Public notification was via direct letterbox drops (approx. 2500 letters) and via an advertisement in the Tweed Link. Written consent was obtained from all participating landholders.

## 4.0 Results

### 4.1 Camera Monitoring Results

Camera monitoring has been continuous since the program start in 2018. During this reporting period the remote cameras were left in place for the duration of the baiting program and for a period following the baiting program. The Heath Road camera was removed during school holiday periods due to an increased risk of theft or vandalism.

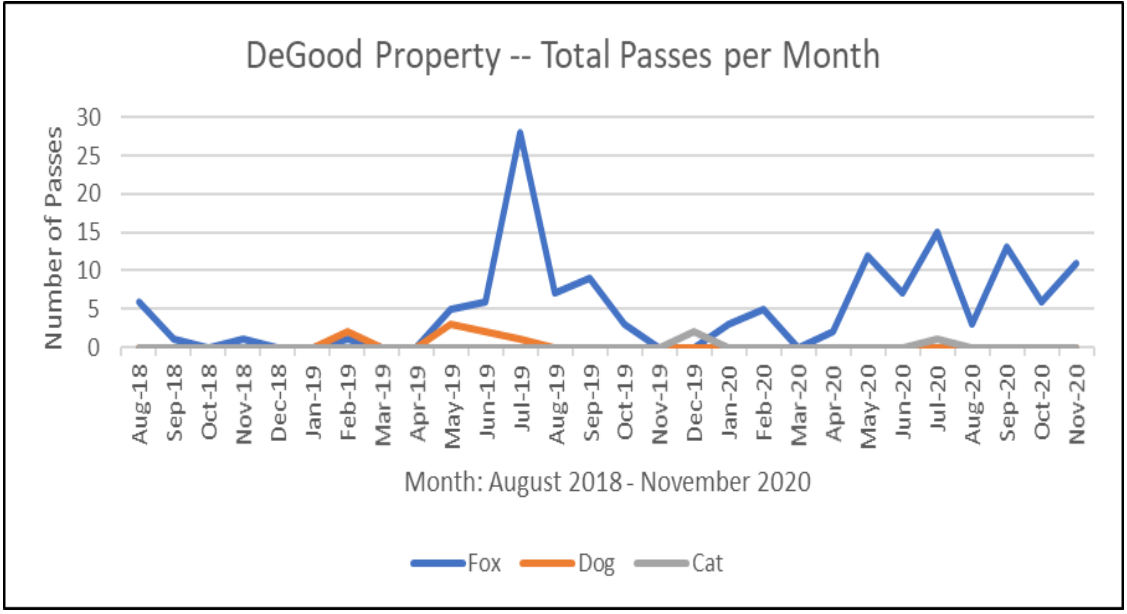
Camera monitoring showed that a number of foxes occurred across the project area with the greatest number, and highest activity, being on the private lands immediately to the west of Koala Beach and Pottsville. The results of this program are shown at **Appendix B**. A number of cameras images are shown at **Appendix A**.

Foxes were recorded by all cameras. The greatest activity was recorded by Camera 13 where up to three foxes were recorded, often passing the camera on multiple occasions during a 24-hour period. Two, possibly three foxes were recorded in the Round Mountain area – DeGood, Throssell and Heath Road. A number of these foxes had mange. No Dingoes or wild dogs were recorded during the monitoring period. A number of Bush Stone-curlews and Koalas were recorded on camera.

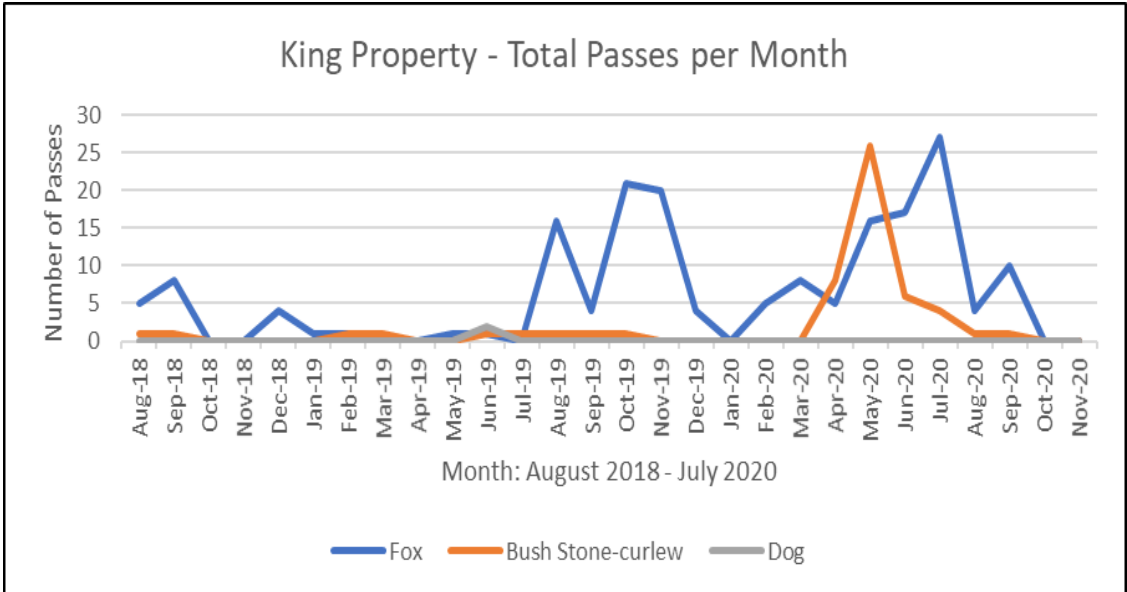


The DeGood (a forested site) and King’s (a cane field site) camera monitoring data for the period August 2018 until late November 2020 was analysed to assess trends over time and effectiveness of any previous 1080 baiting programs. One camera was installed on each property and remained at the same location for the duration of the reporting period. The results are shown at **Charts 1 and 2**. The results for the Heath Road camera are shown at **Chart 3**.

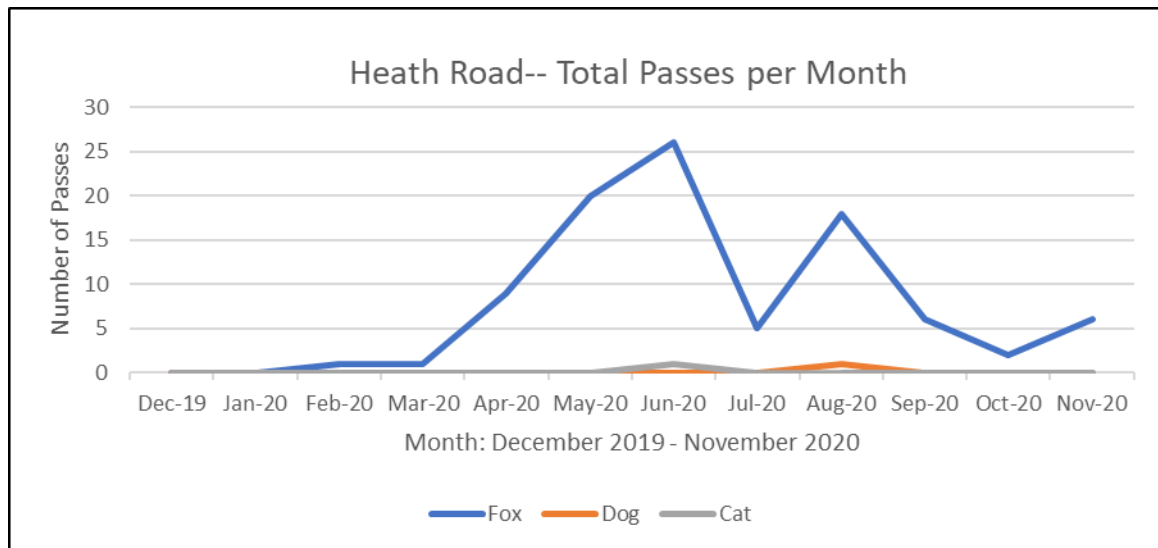
**Chart 1:** DeGood Property camera monitoring results – Fox, Dog and Bush Stone-curlew passes per month, Aug 2018 – Nov 2020. Note: soft-jaw trapping dates not shown



**Chart 2:** King Property camera monitoring results – Fox, Dog and Bush Stone-curlew passes per month, Aug 2018 – Nov 2020. Note: (soft-jaw trapping dates not shown and the camera was inoperable during October)



**Chart 3:** Heath Road camera monitoring results – Fox, Dog and Cat passes per month, Dec 2019 – Nov 2020. Note: number of passes represent multiple passes by only 2 foxes.



The positive results of the baiting programs at the Round Mountain forested sites and Heath Road are clearly evident as shown by **Charts 1 and 3**; however, the results from the cane field sites (King’s property) are not as clear (**Chart 2**). All charts show an increase in fox activity during the late winter and spring periods and an increase in Bush Stone-curlew activity during the non-breeding period of that species – late summer to early spring. The cane field results (**Chart 2**) also suggest that Bush Stone-curlew activity, and numbers, has increased since the commencement of this monitoring program in 2018. Bush Stone-curlews were not recorded at the forested sites (DeGood, Throssell and Heath Road).

It should be noted that the “Number of passes” totals represent the number of times a fox passed the camera, not the number of foxes. The number of foxes at the De Good, Throssell and Heath Road sites totalled no more than two or three individuals. This was determined by the degree of infection by mange on individual animals or different coat colour patterns.

The charts also show that control is generally short-term and therefore control programs – 1080 baiting and trapping – must be targeted and timed so as to coincide with the pre-breeding season of the fox, so as to maximise the impact on the fox population prior to and during the Bush Stone-curlew breeding season and the period when young Koalas roam and establish new home ranges.

#### 4.2 1080 Baiting Program

Fourteen bait-stations were established, thirteen within the Koala Beach buffer and one at Cudgerie Creek Bushland Reserve (See **Figure 4** and **Table 3**). A total of 108 fresh-meat baits were set, with a total of 55 baits taken over the four-week period (**Table 4**). Camera monitoring determined that many of the baits in the cane fields were being taken by either Torresian Crows or Pied Currawongs (**Plate 1**). These birds were ever-present and it is likely that they observed the location of the buried baits early in the program. To counter this, the baits laid during the later parts of the program were set late in the day (after sunset) when the birds were not

present. The bait locations were also disguised by cane trash, small sticks and decoy mounts of earth. Lace Monitors were absent from the southern parts, particularly the cane fields, and were generally scarce in the northern, forested sites at Round Mountain. Two foxes were recorded taking baits during the program, one at BS10 and one at BS13.

**Table 3: Bait-station locations 4 August – 1 September 2020 (Map Datum GDA94).**

Bait-Station	General Location	Easting	Northing
BS1	Cudgerie Creek Bushland Reserve, ridge top track	551864	6858282
BS2	King property – northern drain - west of camera	554039	6860781
BS3	King property – northern drain – at camera	554031	6861000
BS4	King property – northern drain –east of camera	553496	6861072
BS5	Hardy property – southern drain – bridge crossing	553477	6861093
BS6	Hardy property – south eastern corner of property	553602	6861073
BS7	Hardy property – eastern drain at cross road	553724	6861787
BS8	Heath Road - TSC	554915	6862878
BS9	DeGood property - intersection	554566	6864216
BS10	DeGood property – SW corner	554327	6863946
BS11	Throssell property – camera location	554187	6864371
BS12	DeGood property – North on fire trail	554445	6864675
BS13	DeGood property – North east fire trail	554601	6864694
BS14	DeGood property – east fire trail	554685	6864468

**Table 4: Summary of baiting program results: 4 August – 1 September 2020**

Bait Station Number	Take by Dog Total	Take by Fox Total	Taken by Birds Total	Take by Unknown Total	Total Number of Baits Taken	Total Number Baits Set
BS1	0	1	0	0	1	4
BS2	0	0	2	2	4	8
BS3	0	0	4	1	5	8
BS4	0	0	5	1	6	8
BS5	0	0	5	1	6	8
BS6	0	0	2	3	5	8
BS7	0	0	2	2	4	8
BS8	1	0	1	2	4	8
BS9	0	0	0	2	2	8
BS10	0	1	0	3	4	8
BS11	0	0	1	1	2	8
BS12	0	0	0	4	4	8
BS13	0	1	0	3	4	8
BS14	0	0	0	4	4	8
<b>Totals</b>	<b>1</b>	<b>3</b>	<b>22</b>	<b>29</b>	<b>55</b>	<b>108</b>

**Note:** “Unknown” takes may include baits taken by foxes, Torresian Crows, Australian Brush-turkeys and Lace Monitors.



In contrast to previous programs, tethering the baits significantly affected the success of this baiting program. On a number of occasions foxes were recorded taking the baits but as the fox moved away and came up against the resistance of the tether it quickly dropped the bait (**Plate 1**), and then either left the site or very cautiously circled the bait without attempting to re-take it. These baits were then left exposed on the ground and were subsequently eaten by crows or Pied Currawongs (**Plate 2**). After an initial attempt to take a tethered bait most foxes were generally very suspicious of and did not attempt to take new baits over subsequent nights. A single Dingo was recorded during the baiting program and this animal took a tethered bait at the Heath Road site (**Plate A1**). This Dingo did not appear to be put-off by the tether but pulled against the tether until the bait came free. No other records of Dingoes were made. The cane fields west of Koala Beach and Pottsville appeared to be a “hot spot” for fox activity.

The effectiveness of the baiting program was reduced by Torresian Crow and Pied Currawong activity. As a result, baiting ceased in early September because of the on-going removal of baits by these birds. On-going camera monitoring showed continued fox activity in the cane field areas west of Pottsville after the baiting program had concluded. An ejector or soft-jaw trapping program is proposed for late October or early November 2020.

A number of feral dogs recorded during 2019 were not recorded in 2020 and it is likely that these dogs were poisoned during the 2019 baiting programs conducted by TSC and NSW National Parks and wildlife Service.

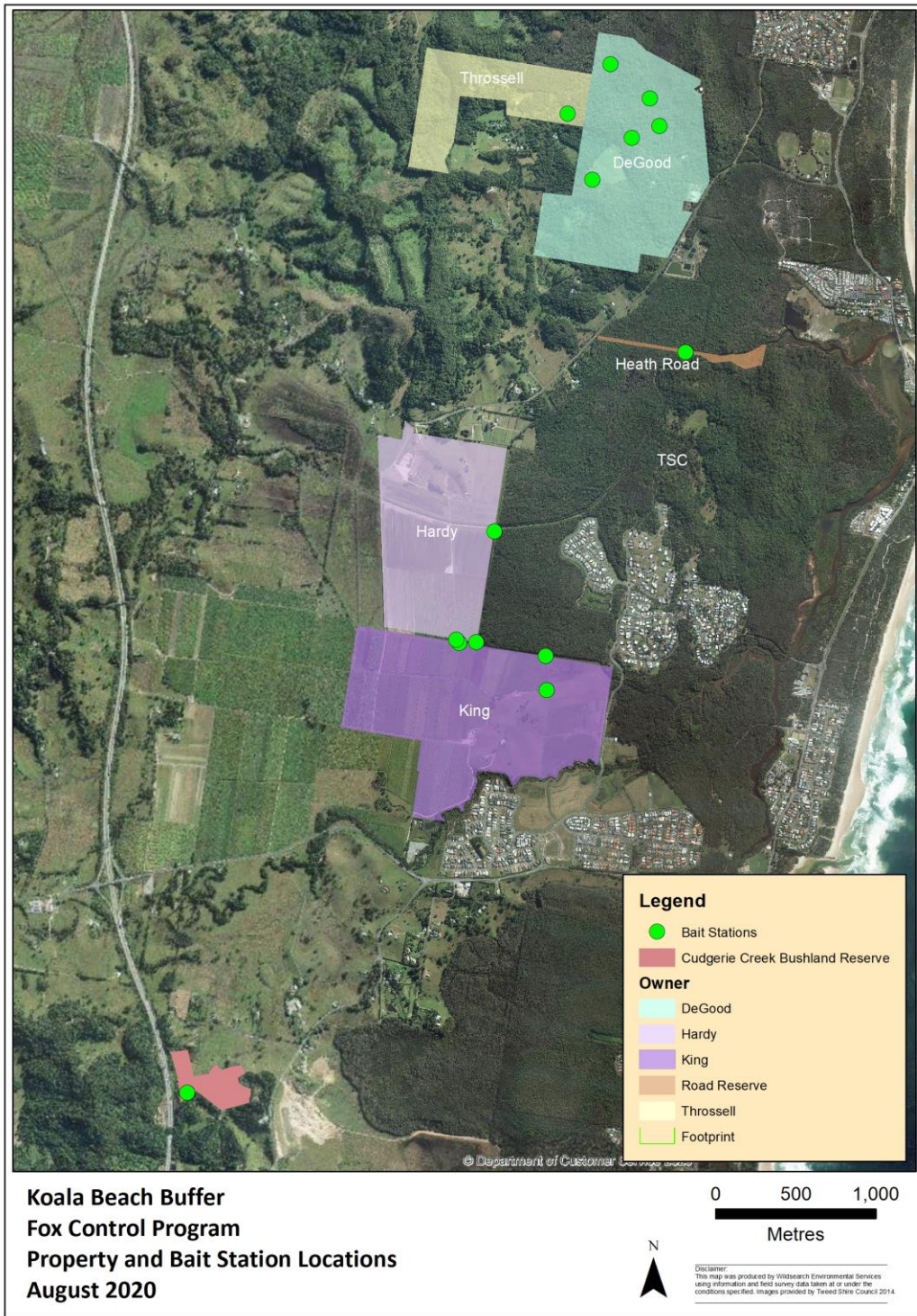


Figure 4: Location of bait-station, Winter 2020





**Plate 1:** Fox recoiling after tethered bait pulled from mouth as it moved away. The tethered bait indicated by arrow. August 2020



**Plate 2:** Torresian Crow uncovering fresh-meat bait, King's property August 2020

#### 4.3 Incidental Records

The most notable record was that of a number of Bush Stone-curlews, including the yellow flagged E2 bird from Pottsville Environment Park, captured by Camera 13, west of Pottsville (**Plate 3**). E2 is from of a breeding pair that normally resides at the environment park,



approximately two kilometres to the south east. These birds were observed regularly during the non-breeding season. Koalas were recorded by the cameras on the DeGood property (3 occasions) and at Heath Road (one occasion).



**Plate 3:** Flagged Bush Stone-curlew E2, King’s property, May 2020

## 5.0 Discussion

The camera monitoring confirmed the presence of foxes across the project area and suggested relatively high levels of activity. The camera monitoring also confirmed the continuing presence of a Bush Stone-curlew population to the west of Pottsville and that the fox control program is potentially assisting in protecting these important breeding populations.

The removal of the baits by Torresian Crows and Pied Currawongs greatly reduced the effectiveness of the program, as did the tethering of the baits.

Conducting a targeted baiting program over a relatively short period (four weeks) was less of an imposition on the participating landowners than a long-term, continuous baiting program.

All landowners were very supportive of the program and appreciated the efforts by Council to control fox numbers and thereby protect local populations of Koalas, Bush Stone-curlew and other native ground dwelling species.

Both the Bush Stone-curlew and Koala were recorded at a number of sites. Foxes are known predators of these species. In recent years the number of Bush Stone-curlew records across the local areas has significantly increased and the number using the cane fields to the west of Pottsville has also increased significantly. Groups of up to four birds were recorded. It is likely that this is a results of on-going predator control in the area.

Maintaining a predator control buffer around the Koala Beach, and adjacent high conservation bushland areas, is vitally important. Without a buffer zone approach any control programs that focussed on a small isolated area would prove, over the longer term, to be ineffective and, at the very best, would only target one or two foxes that would be more easily replaced if the predator population in the immediate surrounds were not also controlled. The value of the control program is shown by the increase in Bush Stone-curlew numbers within and adjacent to Koala Beach and the increasing number of successful nesting attempts. Very few, if any, Bush Stone-curlew eggs or chicks are now taken by foxes.

## 6.0 Recommendations:

A number of recommendations are made:

- It is strongly recommended that a two-week soft-jaw trapping program be conducted in early 2021. This should focus on the bait-shy foxes identified during the 2020 program.
- This monitoring and control program should be maintained as it is an essential program in the overall Tweed Coast vertebrate pest management program and contributes to the improvements in the local Bush Stone-curlew, beach-nesting shorebird and Koala populations.
- All future baiting programs should be informed by an on-going camera monitoring program.
- A baiting program is proposed for late October and early November to coincide with the breeding season of the Bush Stone-curlew. This program will use fresh-meat baits and 1080 ejectors. The use of ejectors will be dependent upon weather conditions. Ejectors will not be used during wet weather.
- Future baiting program should be of a short duration i.e., no more than 21 or 28 days. It is preferable that a baiting program should include two baiting periods separated in time by four or five weeks.
- To improve the effectiveness of the program, baits located within the forested areas i.e., Throssell, Heath Road and DeGood properties should not be tethered. Based on camera monitoring data from this current program it would be expected that this would increase the uptake of baits in this area and reduce the number of bait-shy foxes.
- Baiting should target areas of high fox activity and areas adjacent to known Koala and Bush Stone-curlew breeding populations.
- The use of ejectors during periods of wet or humid weather should be avoided.
- As per current protocols, baiting programs should avoid school and public holiday periods.



David Charley  
Ecological Consultant  
24 November 2020

## Appendix A: Photographs



Plate A1: Heath Road camera - Dingo taking tethered fresh-meat bait 18/08/2020.



Plate A2: Heath Road camera - Koala 25/09/2019.





**Plate A3:** Koala, DeGood property – 18/07/2019

## Appendix B: Camera Monitoring Results

Table A1: All camera monitoring results 2019 - November 2020.

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
9	De Goode	19	1	2019	1958	No	3	0			
10	De Goode	27	1	2019	0322	No	2	0			
11	De Goode	15	1	2019	1037	No	0	0			
12	De Goode	10	2	2019	2035	No	2	1			
13	De Goode	14	2	2019	1707	No	1	0			
14	De Goode	14	2	2019	2224	No	0	0	1		
15	De Goode	7	5	2019		No	2	0			
16	De Goode	12	5	2019	2206	No	0	0	1		
17	De Goode	22	5	2019	0605	No	2	0	0		
18	De Goode	29	5	2019	0128	No			1		
19	De Goode	29	5	2019	0620	No			1		
20	De Goode	29	5	2019	0847	No			1		
21	De Goode	31	5	2019	1904	No			1		
22	De Goode	31	5	2019	2233	No		2			
23	De Goode	2	6	2019	0416	No			1		
24	De Goode	2	6	2019	1716	No			1		
25	De Goode	17	6	2019	2045	No			1		
26	De Goode	18	6	2019	1710	No		2			
27	De Goode	19	6	2019	1206	No					
28	De Goode	21	6	2019	0707	No		2			
29	De Goode	23	6	2019	0159	No			1		
30	De Goode	26	6	2019	2107	No			1		
31	De Goode	30	6	2019	0552	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
32	De Goode	3	7	2019	0552	No			1		
33	De Goode	3	7	2019	2020	No			1		
34	De Goode	4	7	2019	0507	No		2			
35	De Goode	9	7	2019	0655	No			1		
36	De Goode	11	7	2019	0256	No			1		
37	De Goode	11	7	2019	0513	No			1		
38	De Goode	12	7	2019	2036	No			1		
39	De Goode	13	7	2019	0410	No			1		
40	De Goode	13	7	2019	0504	No			1		
41	De Goode	14	7	2019	0324	No			1		
42	De Goode	14	7	2019	0519	No			1		
43	De Goode	14	7	2019	2332	No			1		
44	De Goode	15	7	2019	0115	No			1		
45	De Goode	16	7	2019	0227	No			1		
46	De Goode	16	7	2019	1858	No			1		
47	De Goode	16	7	2019	2015	No			1		
48	De Goode	16	7	2019	2022	No			1		
49	De Goode	17	7	2019	1723	No			1		
50	De Goode	17	7	2019	1838	No			1		
51	De Goode	17	7	2019	2112	No			1		
52	De Goode	18	7	2019	2247	No			1		
53	De Goode	19	7	2019	0641	No					
54	De Goode	20	7	2019	2100	No			1		
55	De Goode	21	7	2019	1124	No			2		
56	De Goode	21	7	2019	1754	No			1		
57	De Goode	21	7	2019	2011	No			1		
58	De Goode	26	7	2019	1936	Yes			1		
59	De Goode	27	7	2019	0342	Yes			1		
60	De Goode	27	7	2019	1944	Yes			1		



Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
61	De Goode	28	7	2019	0242	Yes			1		
62	De Goode	3	8	2019	0501	Yes			1		
63	De Goode	4	8	2019	2017	Yes			1		
64	De Goode	11	8	2019	1942	Yes			1		
65	De Goode	17	8	2019	1900	No			1		
66	De Goode	23	8	2019	0450	No			1		
67	De Goode	23	8	2019	0527	No			1		
68	De Goode	28	8	2019	0526	No			1		
69	De Goode	2	9	2019	0409	No			1		
70	De Goode	4	9	2019	0501	No			1		
71	De Goode	6	9	2019	1953	No			1		
72	De Goode	14	9	2019	0354	No			1		
73	De Goode	16	9	2019	0323	No			1		
74	De Goode	18	9	2019	0955	No			1		
75	De Goode	18	9	2019	1847	No			1		
76	De Goode	20	9	2019	0351	No			1		
77	De Goode	25	9	2019	1230	No					
78	De Goode	25	9	2019	2101	No			1		
79	De Goode	2	10	2019	1845	No			1		
80	De Goode	4	10	2019	2313	No			1		
81	De Goode	10	10	2019	2306	No			1		
82	De Goode	18	10	2019	0124	No					
83	De Goode	18	12	2019	1248	No					
84	De Goode	21	12	2019	1250	No					1
85	De Goode	21	12	2019	0116	No					1
86	De Goode	3	1	2020	2133	No					1
87	De Goode	21	1	2020	2117	No			1		
88	De Goode	21	1	2020	2217	No			1		
89	De Goode	26	1	2020	2159	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
90	De Goode	10	2	2020	2129	No			1		
91	De Goode	14	2	2020	2206	No				1	
92	De Goode	14	2	2020	2343	No			1		
93	De Goode	17	2	2020	2100	No			1		
94	De Goode	21	2	2020	2222	No			1		
95	De Goode	23	4	2020	2022	No			1		
96	De Goode	29	4	2020	2133	No			1		
97	De Goode	2	5	2020	0518	No			1		
98	De Goode	5	5	2020	2301	No			1		
99	De Goode	6	5	2020	2037	No			1		
100	De Goode	12	5	2020	0218	No			1		
101	De Goode	12	5	2020	0223	No			1		
102	De Goode	13	5	2020	0448	No			1		
103	De Goode	15	5	2020	2009	No			1		
104	De Goode	22	5	2020	2005	No			1		
105	De Goode	27	5	2020	1841	No			1		
106	De Goode	30	5	2020	1917	No			1		
107	De Goode	31	5	2020	0402	No			1		
108	De Goode	31	5	2020	0712	No			1		
109	De Goode	16	6	2020	2004	No			1		
110	De Goode	18	6	2020	2333	No			1		
111	De Goode	23	6	2020	1242	No			1		
112	De Goode	25	6	2020	1206	No			1		
113	De Goode	25	6	2020	2122	No			1		
114	De Goode	26	6	2020	2255	No			1		
115	De Goode	30	6	2020	2035	No			1		
116	De Goode	3	7	2020	0217	No			1		
117	De Goode	5	7	2020	2138	No					1
118	De Goode	6	7	2020	2348	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
119	De Goode	13	7	2020	1102	No			1		
120	De Goode	13	7	2020	1757	No			1		
121	De Goode	13	7	2020	1847	No			1		
122	De Goode	14	7	2020	2116	No			1		
123	De Goode	15	7	2020	0347	No			1		
124	De Goode	15	7	2020	1822	No			1		
125	De Goode	16	7	2020	1913	No			1		
126	De Goode	19	7	2020	0240	No			1		
127	De Goode	19	7	2020	1753	No			1		
128	De Goode	21	7	2020	1855	No			1		
129	De Goode	23	7	2020	0540	No			1		
130	De Goode	26	7	2020	2043	No			1		
131	De Goode	29	7	2020	1803	No			1		
132	De Goode	1	8	2020	2038	No			1		
133	De Goode	2	8	2020	2008	No			1		
134	De Goode	3	8	2020	2312	No			1		
135	De Goode	6	8	2020	0410	Yes			1		
136	De Goode	9	8	2020	1902	Yes			1		
137	De Goode	12	8	2020	0103	Yes			1		
138	De Goode	14	8	2020	2113	Yes			1		
139	De Goode	16	8	2020	0006	Yes			1		
140	De Goode	16	8	2020	1836	Yes			1		
141	De Goode	18	8	2020	0143	Yes			1		
161	King	13	1	2019	2359	No	2	0			
162	King	30	1	2019	0155	No	0	0	1		
163	King	01	2	2019	0115	No	1	0			
164	King	02	2	2019	0222	No	1	0			
165	King	18	2	2019	0411	No	0	0	1		
166	King	18	2	2019	2159	No	0	0			

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
167	King	4	3	2019	2255	No	0	0			
168	King	22	5	2019		No	0	0	1		
169	King	4	6	2019	0528	No			1		
170	King	14	6	2019	1942	No					
171	King	15	6	2019	2031	No		2			
172	King	15	6	2019	2343	No		2			
173	King	22	6	2019	2307	No		2			
174	King	29	6	2019	0153	No		2			
175	King	29	7	2019	1749	Yes					
176	King	6	8	2019	2246	Yes					
177	King	8	8	2019	1941	Yes			1		
178	King	9	8	2019	2027	Yes					
179	King	9	8	2019	2336	Yes			1		
180	King	10	8	2019	2014	Yes			1		
181	King	10	8	2019	2016	Yes			1		
182	King	12	8	2019	1830	Yes					
183	King	12	8	2019	2132	Yes			1		
184	King	13	8	2019	2134	Yes			1		
185	King	15	8	2019	2206	Yes			1		
186	King	16	8	2019	1242	Yes			1		
187	King	17	8	2019	0436	No			1		
188	King	18	8	2019	2042	No			1		
189	King	23	8	2019	0427	No			1		
190	King	24	8	2019	2109	No			1		
191	King	25	8	2019	1245	No			1		
192	King	26	8	2019	0409	No			1		
193	King	30	8	2019	1937	No			1		
194	King	31	8	2019	2029	No			1		
195	King	2	9	2019	2013	No			1		



Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
196	King	4	9	2019	2203	No			1		
197	King	5	9	2019	1805	No					
198	King	6	9	2019	2002	No			1		
199	King	7	9	2019	1853	No			1		
200	King	2	10	2019	2050	No					
201	King	3	10	2019	0125	No				1	
202	King	3	10	2019	0411	No					
203	King	3	10	2019	1932	No					
204	King	4	10	2019	0442	No					
205	King	4	10	2019	0625	No					
206	King	4	10	2019	2113	No			1		
207	King	6	10	2019	2304	No					
208	King	8	10	2019	0302	No			1		
209	King	10	10	2019	1251	No			1		
210	King	15	10	2019	1823	No			1		
211	King	16	10	2019	0134	No			1		
212	King	16	10	2019	2354	No			1		
213	King	17	10	2019	2056	No			1		
214	King	19	10	2019	0116	No			1		
215	King	19	10	2019	2005	No			1		
216	King	19	10	2019	2144	No			1		
217	King	21	10	2019	0438	No			1		
218	King	23	10	2019	0331	No			1		
219	King	24	10	2019	1903	No			1		
220	King	25	10	2019	1906	No			1		
221	King	26	10	2019	1939	No			1		
222	King	27	10	2019	0413	No					
223	King	27	10	2019	2026	No					
224	King	28	10	2019	1949	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
225	King	28	10	2019	2011	No			1		
226	King	30	10	2019	0427	No			1		
227	King	30	10	2019	2242	No			1		
228	King	31	10	2019	2226	No			1		
229	King	1	11	2019	0251	No			1		
230	King	2	11	2019	2143	No			1		
231	King	3	11	2019	2232	No			1		
232	King	4	11	2019	0301	No			1		
233	King	4	11	2019	2127	No			1		
234	King	5	11	2019	2148	No					
235	King	6	11	2019	2148	No					
236	King	7	11	2019	0302	No					
237	King	7	11	2019	1901	No					
238	King	7	11	2019	2113	No					
239	King	10	11	2019	2124	No			1		
240	King	11	11	2019	0318	No			1		
241	King	11	11	2019	2115	No			1		
242	King	12	11	2019	2239	No			1		
243	King	15	11	2019	2212	No					
244	King	17	11	2019	0225	No			1		
245	King	19	11	2019	1922	No			1		
246	King	24	11	2019	0143	No			1		
247	King	24	11	2019	0545	No			1		
248	King	24	11	2019	1953	No			1		
249	King	24	11	2019	2014	No			1		
250	King	25	11	2019	0331	No			1		
251	King	25	11	2019	0435	No				1	
252	King	25	11	2019	1923	No			1		
253	King	28	11	2019	0432	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
254	King	29	11	2019	1954	No			1		
255	King	1	12	2019	2111	No			1		
256	King	2	12	2019	2309	No			1		
257	King	5	12	2019	2215	No					
258	King	6	12	2019	0249	No			1		
259	King	6	12	2019	0404	No			1		
260	King	21	2	2020	0433	No			1		
261	King	22	2	2020	0440	No			1		
262	King	22	2	2020	0123	No			1		
263	King	24	2	2020	1249	No			1		
264	King	28	2	2020	2041	No			1		
265	King	1	3	2020	2105	No			1		
266	King	5	3	2020	0408	No			1		
267	King	5	3	2020	0438	No			1		
268	King	14	3	2020	1955	No			1		
269	King	16	3	2020	2044	No			1		
270	King	17	3	2020	2353	No			1		
271	King	25	3	2020	1824	No			1		
272	King	26	3	2020	0621	No			1		
273	King	4	4	2020	2344	No					
274	King	6	4	2020	2011	No					
275	King	8	4	2020	2047	No					
276	King	10	4	2020	0355	No					
277	King	11	4	2020	2245	No					
278	King	12	4	2020	2243	No			1		
279	King	13	4	2020	2103	No			1		
280	King	13	4	2020	2155	No					
281	King	14	4	2020	1947	No			1		
282	King	17	4	2020	0449	No					

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
283	King	27	4	2020	2042	No					
284	King	28	4	2020	0057	No			1		
285	King	28	4	2020	2144	No			1		
286	King	1	5	2020	2145	No					
287	King	2	5	2020	2019	No					
288	King	2	5	2020	2056	No					
289	King	2	5	2020	2129	No					
290	King	3	5	2020	1800	No					
291	King	3	5	2020	1857	No			1		
292	King	3	5	2020	2033	No					
293	King	3	5	2020	2107	No			1		
294	King	4	5	2020	0114	No					
295	King	4	5	2020	0534	No			1		
296	King	4	5	2020	1922	No					
297	King	6	5	2020	1800	No					
298	King	7	5	2020	1228	No					
299	King	7	5	2020	1929	No					
300	King	7	5	2020	2351	No			1		
301	King	8	5	2020	1722	No					
302	King	8	5	2020	1921	No					
303	King	9	5	2020	2210	No					
304	King	10	5	2020	1738	No					
305	King	10	5	2020	1744	No					
306	King	11	5	2020	2025	No			1		
307	King	12	5	2020	0238	No					
308	King	12	5	2020	2239	No			1		
309	King	13	5	2020	0257	No					
310	King	15	5	2020	1201	No			1		
311	King	15	5	2020	2009	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
312	King	19	5	2020	0115	No			1		
313	King	22	5	2020	1914	No			1		
314	King	22	5	2020	2148	No			1		
315	King	23	5	2020	0206	No			1		
316	King	23	5	2020	2104	No			1		
317	King	24	5	2020	2358	No					
318	King	25	5	2020	0532	No			1		
319	King	26	5	2020	1735	No					
320	King	26	5	2020	2054	No					
321	King	26	5	2020	2135	No					
322	King	27	5	2020	0229	No					
323	King	27	5	2020	2208	No			1		
324	King	27	5	2020	2210	No			1		
325	King	27	5	2020	2254	No					
326	King	28	5	2020	1801	No					
327	King	28	5	2020	2019	No					
328	King	29	5	2020	2049	No					
329	King	31	5	2020	1855	No					
330	King	2	6	2020	1734	No					
331	King	3	6	2020	0505	No					
332	King	3	6	2020	0531	No			1		
333	King	4	6	2020	1801	No			1		
334	King	4	6	2020	2000	No					
335	King	4	6	2020	0311	No					
336	King	9	6	2020	1716	No					
337	King	12	6	2020	1748	No					
338	King	12	6	2020	1906	No					
339	King	12	6	2020	1958	No			1		
340	King	15	6	2020	1934	No			1		



Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
341	King	16	6	2020	1808	No			1		
342	King	16	6	2020	1848	No			1		
343	King	18	6	2020	0635	No			1		
344	King	19	6	2020	1957	No			1		
345	King	20	6	2020	1757	No			1		
346	King	22	6	2020	1754	No			1		
347	King	23	6	2020	1801	No			1		
348	King	24	6	2020	1114	No			1		
349	King	24	6	2020	1746	No			1		
350	King	24	6	2020	1747	No					
351	King	25	6	2020	1801	No			1		
352	King	28	6	2020	1727	No			1		
353	King	29	6	2020	1828	No					
354	King	30	6	2020	2025	No			1		
355	King	30	6	2020	2040	No			1		
356	King	1	7	2020	1805	No			1		
357	King	6	7	2020		No			1		
358	King	7	7	2020		No			1		
359	King	7	7	2020		No			1		
360	King	8	7	2020		No			1		
361	King	8	7	2020		No			1		
362	King	10	7	2020		No			1		
363	King	10	7	2020		No			1		
364	King	10	7	2020		No			1		
365	King	11	7	2020		No			1		
366	King	12	7	2020		No			1		
367	King	12	7	2020		No			1		
368	King	14	7	2020		No			1		
369	King	15	7	2020		No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
370	King	15	7	2020		No			1		
371	King	15	7	2020		No			1		
372	King	16	7	2020		No			1		
373	King	16	7	2020		No			1		
374	King	16	7	2020		No			1		
375	King	16	7	2020		No			1		
376	King	17	7	2020		No					
377	King	18	7	2020		No			1		
378	King	18	7	2020		No			1		
379	King	19	7	2020		No					
380	King	19	7	2020		No			1		
381	King	19	7	2020		No			1		
382	King	19	7	2020		No			1		
383	King	21	7	2020	1936	No			1		
384	King	21	7	2020	1957	No					
385	King	23	7	2020	0435	No			1		
386	King	23	7	2020	2118	No					
387	King	29	7	2020	2012	No					
388	King	1	8	2020	0420	No			1		
389	King	1	8	2020	1805	No			1		
390	King	2	8	2020	1826	No					
391	King	3	8	2020	0011	No			1		
392	King	3	8	2020	1912	No			1		
393	King	4	8	2020	2229	Yes					
394	King	4	8	2020	2341	Yes					
395	King	5	8	2020	0317	Yes			1		
396	King	7	8	2020	0034	Yes			1		
397	King	8	8	2020	0051	Yes			1		
398	King	9	8	2020	2042	Yes			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
399	King	12	8	2020	2054	Yes			1		
400	King	12	8	2020	2055	Yes			1		
401	King	13	8	2020	0337	Yes			1		
402	King	14	8	2020	2310	Yes			1		
403	King	16	8	2020	0242	Yes			1		
404	King	16	8	2020	0655	Yes			1		
405	King	17	8	2020	0403	Yes			1		
406	King	17	8	2020	0527	Yes					
407	King	17	8	2020	0550	Yes			1		
408	King	18	8	2020	0223	Yes			1		
411	Throssell	4	5	2019		No	0	0	1		
412	Throssell	22	5	2019		No	1	0	0		
413	Throssell	28	7	2019	0232	Yes			1		
414	Throssell	2	8	2019	1820	Yes			1		
415	Throssell	9	8	2019	2040	Yes			1		
416	Throssell	11	8	2019	2234	Yes			1		
417	Throssell	24	8	2019	0400	No			1		
418	Throssell	29	8	2019	0445	No			1		
419	Throssell	1	9	2019	2327	No			1		
420	Throssell	5	9	2019	2126	No			1		
421	Throssell	8	9	2019	1252	No			1		
422	Throssell	17	9	2019	1950	No			1		
423	Throssell	18	9	2019	0711	No			1		
424	Throssell	28	9	2019	1935	No			1		
425	Throssell	9	10	2019	0201	No			1		
426	Throssell	9	10	2019	0752	No			1		
427	Throssell	12	10	2019	1828	No			1		
428	Throssell	14	10	2019	2205	No			1		
429	Throssell	18	10	2019	2031	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
430	Throssell	22	10	2019	1924	No			1		
431	Throssell	10	11	2019	2217	No			1		
432	Throssell	3	1	2020	2102	No			1		
433	Throssell	9	1	2020	0151	No				1	
434	Throssell	17	2	2020	2115	No			1		
435	Throssell	16	4	2020	0229	No			1		
436	Throssell	12	5	2020	1804	No			1		
437	Throssell	20	6	2020	1135	No			1		
438	Throssell	25	6	2020	1956	No			1		
439	Throssell	27	6	2020	2344	No			1		
440	Throssell	4	7	2020	1512	No			1		
441	Throssell	6	7	2020	2026	No			1		
442	Throssell	13	7	2020	1114	No			1		
443	Throssell	15	7	2020	1816	No			1		
444	Throssell	18	7	2020	0316	No			1		
445	Throssell	19	7	2020	1747	No			1		
446	Throssell	20	7	2020	2017	No			1		
447	Throssell	12	7	2020	0115	Yes			1		
448	Throssell	12	7	2020	1912	Yes			1		
449	Heath Road	4	4	2019	0641	No	0	0	0		
450	Heath Road	11	5	2019		No	2	0	0		
451	Heath Road	15	5	2019	1238	No	2	0	0		
452	Heath Road	15	5	2019	0324	No	2	0	0		
453	Heath Road	18	5	2019	0111	No	2	0	0		
454	Heath Road	24	5	2019	1214	No	2	0	0		
455	Heath Road	24	5	2019	0745	No	2	0	0		
456	Heath Road	29	5	2019	0258	No	1				
457	Heath Road	29	5	2019	0731	No	2				
458	Heath Road	29	5	2019	1439	No	2				

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
459	Heath Road	10	6	2019	0257	No	2				
460	Heath Road	12	6	2019	0134	No	2				
461	Heath Road	13	6	2019	2011	No	2				
462	Heath Road	27	7	2019	0303	Yes			1		
463	Heath Road	27	7	2019	1823	Yes	2				
464	Heath Road	29	7	2019	0354	Yes			1		
465	Heath Road	29	7	2019	0459	Yes			1		
466	Heath Road	31	7	2019	0540	Yes			1		
467	Heath Road	2	8	2019	2205	Yes			1		
468	Heath Road	4	8	2019	2040	Yes			1		
469	Heath Road	25	8	2019	2305	No			1		
470	Heath Road	30	8	2019	0045	No			1		
471	Heath Road	31	8	2019	2157	No			1		
472	Heath Road	2	9	2019	0058	No			1		
473	Heath Road	9	9	2019	0033	No			1		
474	Heath Road	10	9	2019	2203	No			1		
475	Heath Road	11	9	2019	2122	No			1		
476	Heath Road	15	9	2019	0043	No			1		
477	Heath Road	15	9	2019	2318	No			1		
478	Heath Road	16	9	2019	0031	No			1		
479	Heath Road	21	9	2019	0148	No			1		
480	Heath Road	22	9	2019	0131	No			1		
481	Heath Road	25	9	2019	1925	No					
482	Heath Road	21	2	2020	2140	No			1		
483	Heath Road	28	2	2020	1121	No					
484	Heath Road	1	3	2020	1355	No					
485	Heath Road	6	3	2020	2410	No					
486	Heath Road	5	1	2015	1917	No			1		
487	Heath Road	5	1	2015	2136	No			1		



Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
488	Heath Road	5	1	2015	2148	No			1		
489	Heath Road	6	1	2015	0047	No			1		
490	Heath Road	29	4	2020	0105	No			1		
491	Heath Road	30	4	2020	2259	No			1		
492	Heath Road	1	5	2020	2206	No			1		
493	Heath Road	2	5	2020	2102	No			1		
494	Heath Road	4	5	2020	0156	No			1		
495	Heath Road	7	5	2020	2205	No			1		
496	Heath Road	9	5	2020	1921	No			1		
497	Heath Road	9	5	2020	2146	No			1		
498	Heath Road	9	5	2020	2201	No			1		
499	Heath Road	14	5	2020	2049	No			1		
500	Heath Road	16	5	2020	0433	No			1		
501	Heath Road	17	5	2020	0611	No			1		
502	Heath Road	18	5	2020	2118	No			1		
503	Heath Road	19	5	2020	2354	No			1		
504	Heath Road	20	5	2020	0008	No			1		
505	Heath Road	20	5	2020	1943	No			1		
506	Heath Road	22	5	2020	1913	No			1		
507	Heath Road	22	5	2020	2315	No			1		
508	Heath Road	23	5	2020	0601	No			1		
509	Heath Road	23	5	2020	0733	No			1		
510	Heath Road	25	5	2020	2038	No			1		
511	Heath Road	25	5	2020	2157	No			1		
512	Heath Road	26	5	2020	2132	No			1		
513	Heath Road	28	5	2020	2143	No			1		
514	Heath Road	28	5	2020	2339	No			1		
515	Heath Road	30	5	2020	2235	No			1		
516	Heath Road	2	6	2020	0359	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
517	Heath Road	4	6	2020	1929	No			1		
518	Heath Road	5	6	2020	0054	No			1		
519	Heath Road	5	6	2020	0538	No					1
520	Heath Road	5	6	2020	1080	No			1		
521	Heath Road	8	6	2020	0201	No			1		
522	Heath Road	8	6	2020	2323	No			1		
523	Heath Road	11	6	2020	2308	No			1		
524	Heath Road	12	6	2020	1942	No			1		
525	Heath Road	12	6	2020	2016	No			1		
526	Heath Road	12	6	2020	2058	No			1		
527	Heath Road	12	6	2020	2128	No			1		
528	Heath Road	14	6	2020	0203	No			1		
529	Heath Road	14	6	2020	1857	No			1		
530	Heath Road	16	6	2020	2130	No			1		
531	Heath Road	18	6	2020	2021	No			1		
532	Heath Road	19	6	2020	0016	No			1		
533	Heath Road	20	6	2020	1816	No			1		
534	Heath Road	20	6	2020	2021	No			1		
535	Heath Road	23	6	2020	0011	No			1		
536	Heath Road	23	6	2020	0151	No			1		
537	Heath Road	23	6	2020	2240	No			1		
538	Heath Road	25	6	2020	1932	No			1		
539	Heath Road	26	6	2020	2013	No			1		
540	Heath Road	29	6	2020	0040	No			1		
541	Heath Road	1	7	2020	1819	No			1		
542	Heath Road	20	7	2020	2219	No			1		
543	Heath Road	20	7	2020	2241	No			1		
544	Heath Road	20	7	2020	2251	No			1		
545	Heath Road	28	7	2020	0257	No			1		

Tally	Locality	Day	Month	Year	Time	Baiting Period	Uncollared Dog (sex unknown)	Uncollared Dog (F)	Fox	Fox with prey	Uncollared Cat
546	Heath Road	1	8	2020	0007	No			1		
547	Heath Road	3	8	2020	0338	No			1		
548	Heath Road	3	8	2020	1824	No			2		
549	Heath Road	3	8	2020	2239	No			1		
550	Heath Road	5	8	2020	2312	Yes			1		
551	Heath Road	9	8	2020	1842	Yes			1		
552	Heath Road	9	8	2020	0142	Yes			1		
553	Heath Road	11	8	2020	0529	Yes			1		
554	Heath Road	11	8	2020	2307	Yes			1		
555	Heath Road	14	8	2020	0216	Yes			1		
556	Heath Road	15	8	2020	2223	Yes			1		
557	Heath Road	16	8	2020	2248	Yes			1		
558	Heath Road	18	8	2020	0654	Yes	1				

