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Acknowledgements and more

This report was written using data collected by hundreds of ACT and Region **FROGWATCH** volunteers in October 2015. We would like to offer our special thanks to them as well as to the past program coordinators, all who have shaped and strengthened the **FROGWATCH** program to what it is today.

The immense contributions made by volunteers of all ages and walks of life as well as by each of the coordinators were finally officially recognized through the ACT 2015 Citizen Science Award. Another amazing milestone added to the **FROGWATCH** Hall of Fame.

Talking about milestones, another landmark was achieved in 2015 by Martin Westgate (ANU) and his wonderful colleagues for scrutinising the first 12 years of FW data to the full and publishing some of their findings in a peer reviewed paper. It has been amazing to be part of this and to see yearlong efforts coming to fruition. The publication can be found online at PLOS one under the title *Citizen Science Program Shows Urban Areas Have Lower Occurrence of Frog Species, but Not Accelerated Declines* (Martin J. Westgate , Ben C. Scheele, Karen Ikin, Anke Maria Hoefer, R. Matthew Beaty, Murray Evans, Will Osborne, David Hunter, Laura Rayner, Don A. Driscoll) or via this link:

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0140973>

Sounds like a busy year already?? Yes, but two other projects contributed large amounts of data to the FW data base in 2015. Firstly, a project investigating climate related effects on the call behaviour of our local frogs (funded by the Environment and Planning Directorate, Sustainability and Climate Change Division) and secondly, a Bio-indicator study, looking at the influence of a range of habitat features on frog occurrence at water bodies across the ACT (funded by the Environment and Planning Directorate, Upper Murrumbidgee Waterwatch Program). We would like to express our very great appreciation to the many volunteer contributing with these projects as well as to the generous and supportive funding bodies!!

Very many smiley special **thank yous** go to Will Osborne and to Murray Evans, both have been instrumental in setting up this project and have never stopped supporting it in various ways!! Without their assistance, I would have croaked a long time ago!!

This report has been written and produced by:

Anke Maria Hoefer, ACT and Region **FROGWATCH** Coordinator, Ginninderra Catchment Group.

This report can be cited as: Hoefer, A. M. (2016): The 2015 **FROGWATCH** Census Report.

Please refer to our online resource page to find out more about the Frogwatch program, its objectives, and the materials and methods used for data collection (<http://www.ginninderralandcare.org.au/frogwatch/>)

Summary of Results

Approximately 100 volunteers monitored 98 sites across the ACT and Region during 137 visits (1.41 visits per site) throughout Census week (18.10 - 26.10.2015). During the entire months of October 2015 over 140 volunteers visited 114 sites during 247 surveys (2.17 visits per site).

See Appendix 1 for a complete list of all **FROGWATCH** 2015 volunteers and Appendix 2 for all **FROGWATCH** site codes, names and locations. A summary of monitoring occasions per site can be found in Appendix 3.

The overall maximum daytime temperature in 2015 was 1.4°C above average in the ACT (Airport), which made 2015 the seventh-warmest year on record. In contrast, the mean minimum temperature in Canberra for 2015 was equal to the historical average.

However, looking at temperature ranges in the different seasons, 2015 presented one of the coldest winters followed by a much warmer than average spring.

In 2015, autumn included the coldest March nights since 1984 and most winter months were colder than average and definitely much colder than in the last decade. The months June, July and September had mean minimum temperatures below average (1.8°C, 0.6°C, and 1.8°C respectively). June had night temperatures down to -7°C, July had the most cool days since 2007 and the coldest day in 20 years (Tuggeranong) and September had the coldest nights since 1994. August was the wettest since 2004, with average minimum temperatures, but with a cold spell in the middle of the month. September was the sixth coldest on record and the coldest in 21 years.

In contrast, daytime temperatures were particularly warm during spring, which was the third-warmest on record, with several significant heatwaves and the warmest October on record. There were 122 days that reached at least 25°C during the year, well above the average of 89 days. Two days exceeded 31 C during early October, the earliest days that warm on record.

Rainfall (see Figure 1) was slightly below average at the Airport weather station and slightly above average at the Tuggeranong weather station in 2015. Canberra Airport recorded more than 10 mm of rain on 17 days, close to the historical average of 19 days. There were three days with more than 25 mm recorded at the Airport, with heavy rainfall on 8 April bringing 53.2mm. Elsewhere in the ACT, Tuggeranong recorded 51 mm on 11 January and Torrens recorded an August record of 40 mm on 2 August, while a storm on 5 November caused up to 40 mm at the Botanical Gardens and localised flash flooding. However, there were also several very dry months, including the eighth-driest September on record.

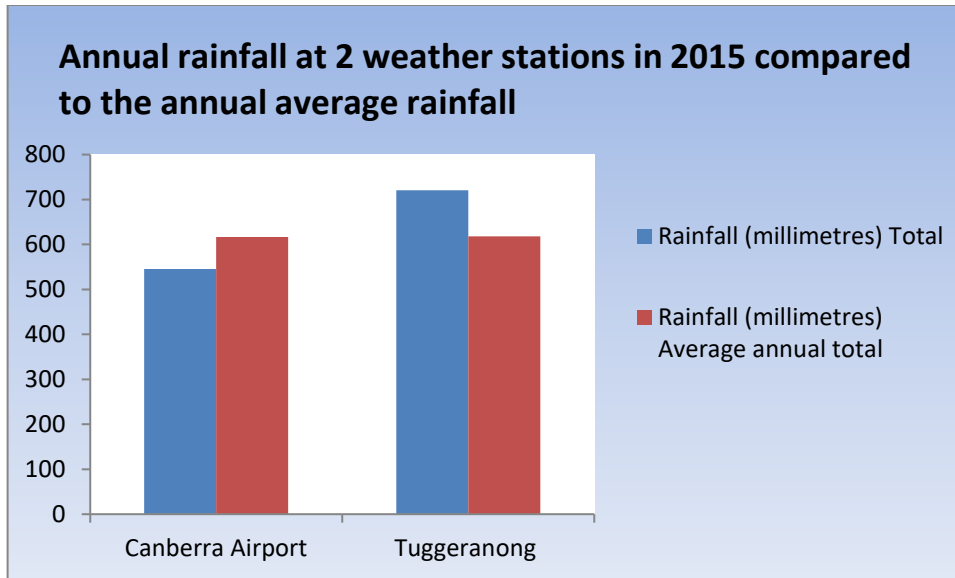


Figure 1: Rainfall data (in mm) for the Airport Weather station and the Tuggeranong Weather station for 2015 compared to the average annual rainfall for the ACT.

Species Detected - in October and during Census week

A total of 8 species were detected throughout the ACT & Region during October 2015 as well as during the 2015 Census week (Table 1, Table 2). As in all previous years the three most commonly detected species were the **Plains froglet** (*Crinia parinsignifera*), **Common eastern froglet** (*Crinia signifera*) and the **Spotted grass frog** (*Limnodynastis tasmaniensis*).

Table 1: Frog species detected during October 2015, and each species' overall abundance

Species	Common name	Detection frequency (# sites)	% of sites detected at
<i>Crinia parinsignifera</i>	Plains Froglet	79	69
<i>Crinia signifera</i>	Common Eastern Froglet	73	64
<i>Limnodynastes dumerilii</i>	Banjo Frog or Pobblebonk	26	23
<i>Limnodynastes peronii</i>	Striped Marsh Frog	18	16
<i>Limnodynastes tasmaniensis</i>	Spotted Grass Frog	77	68
<i>Litoria peroni</i>	Peron's Tree Frog	61	54
<i>Litoria verreauxii</i>	Whistling Tree Frog	35	31
<i>Uperoleia laevigata</i>	Smooth Toadlet	44	39
(No calls recorded)	(No calls recorded)	8	7

Table 2: Frog species detected during Census week 2015, and each species' overall abundance

Species	Common name	Detection frequency (# sites)	% of sites detected at
<i>Crinia parinsignifera</i>	Plains Froglet	67	68
<i>Crinia signifera</i>	Common Eastern Froglet	52	53
<i>Limnodynastes dumerilii</i>	Banjo Frog or Pobblebonk	18	18
<i>Limnodynastes peronii</i>	Striped Marsh Frog	10	10
<i>Limnodynastes tasmaniensis</i>	Spotted Grass Frog	64	65
<i>Litoria peroni</i>	Peron's Tree Frog	50	51
<i>Litoria verreauxii</i>	Whistling Tree Frog	27	28
<i>Uperoleia laevisgata</i>	Smooth Toadlet	33	34
(No calls recorded)	(No calls recorded)	10	10

Species Diversity & Abundance

An abundance of frog species at a particular site indicates the availability of good quality habitat that fulfils the requirements of a number of different species. Identifying these sites with significant environmental value can assist with decision-making, priority setting and management of an area.

Total Number of species

Total number of species describes the accumulative number of species surveyed at a single site during several surveys over a period of time.

The greatest number of species found at any one site during October 2015 was 7- and was found at 4 ACT sites and 2 NSW sites (Figure 2 and Table 3).

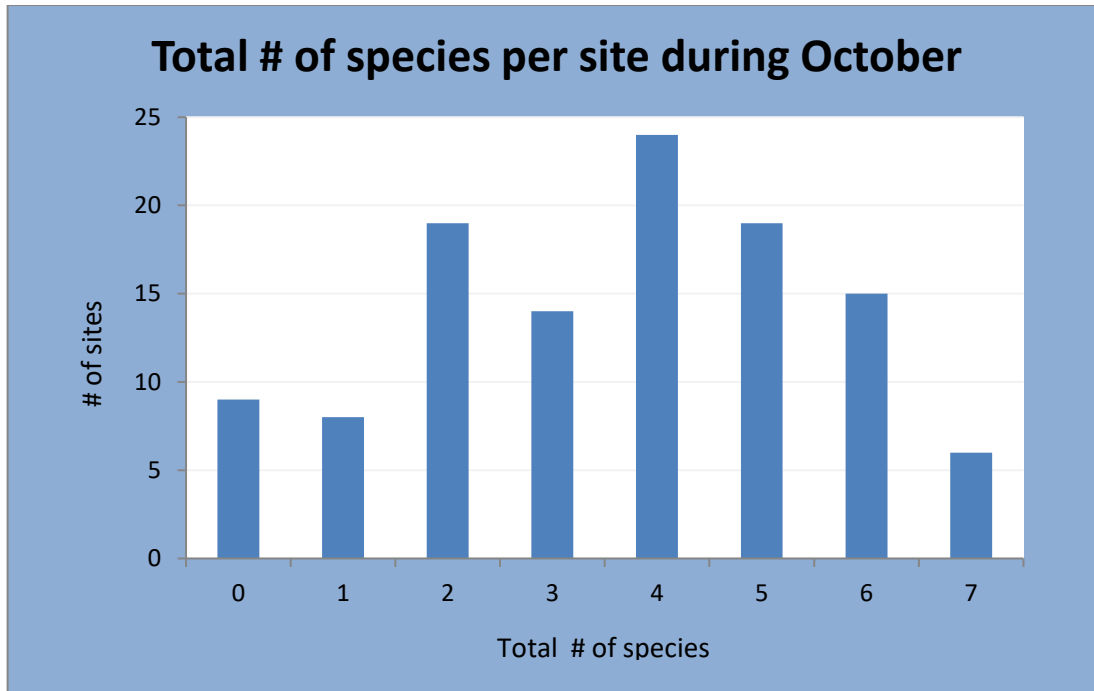


Figure 2: Total # of species measured accumulative over the months of October 2015.

Table 3: FROGWATCH sites, which had 7 species detected accumulative during October 2015.

Site	C. par	C. sig	Lim. dum	Lim. per	Lim. tas	Lit. ver	Lit. per	U. lae
DGP001	21-50	6-20		6-20	21-50	6-20	21-50	6-20
FTD165	1-5	21-50	1-5		1-5	1-5	6-20	6-20
MFL005	21-50	21-50	1-5		51-100	1-5	6-20	6-20
MFL007	6-20	1-5	6-20		6-20	1-5	1-5	1-5
LWR100	6-20	1-5	1-5	1-5	6-20	1-5	1-5	
LWR200	21-50	6-20	6-20	1-5	6-20	6-20		6-20

This result was repeated for 2 sites during Census week- sites FTD165 and LWR200.

These sites- as the species rich sites in previous years - illustrate the significance of the rural fringes in our region. River and dams both inside and outside of reserve systems feature in this list.

Table 4 shows cumulative frog species richness in October 2015 and during Census week.

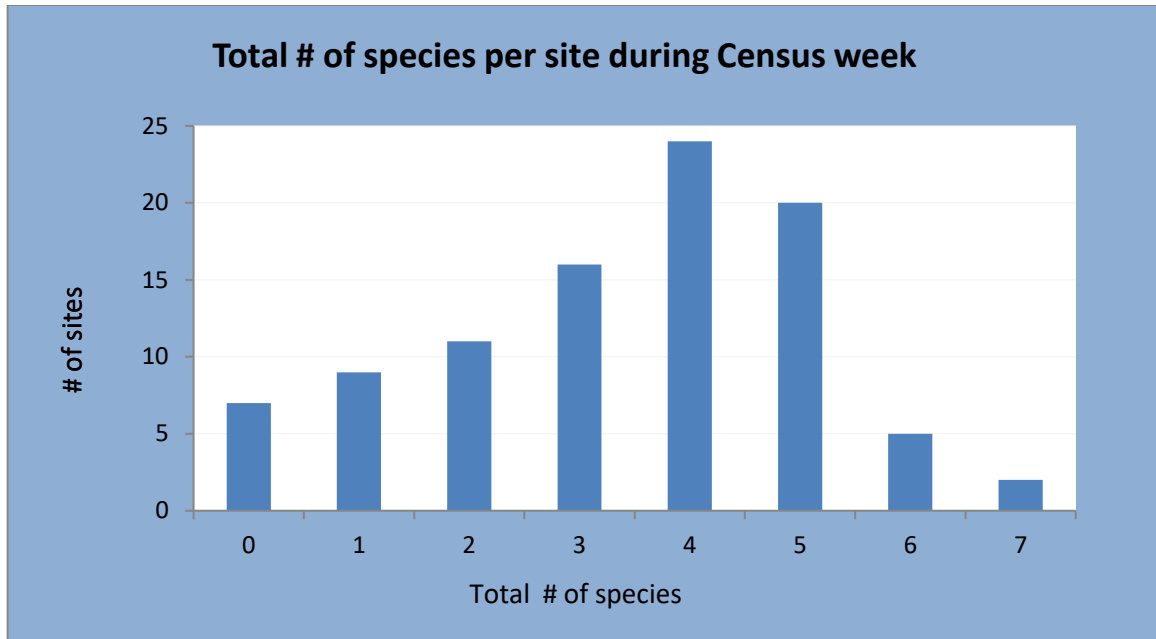


Figure 3: Total # of species measured accumulative during Census week 2015.

Table 4: Frog diversity during Census week 2015 and all of October 2015.

	Census week	October
Min # of species per site	0	0
Maximum # of species per site	7	7
Mean # of species per site	3	4
Median # of species per site	4	4

Species Results



*Crinia parinsignifera*¹
Plains Froglet

- Highly variable species ranging from plain-coloured to strongly-marked individuals with raised ridges & bumps.
- Length = 30mm.
- Call = drawn-out “wwrreeeek” repeated regularly.

Census year	October	Census
# of sites where recorded	79	67
% of total sites surveyed	69	68

Codes of sites where this species was detected during Census week 2015

AMA100	FGD020	MFL013
ANU042	FGD040	MFL014
ARA100	FLE100	MFL015
ARA300	FMC220	MFL016
CBR004	FTD165	MFL017
CEQ100	GIN007	MFL020
CEQ200	GUN001	MFL055
CFR300	HAL001	NAD011
CHC300	HAL002	NAD034
CMC600	JER100	NAD036
CRW001	JER500	NAS100
DGP001	JER520	NBP001
DIW100	JER570	NBP003
DUF100	LDM100	PIN100
DUF200	LWP100	QBN010
FAD300	LWR100	RCD001
FAD500	LWR200	RCD002
FAR001	MCW001	STP100
FAR002	MCW002	STW009
FAR002	MFL002	UHD015
FBM100	MFL003	WAM005
FBP001	MFL005	
FGC009	MFL011	

*Crinia signifera*¹

Common Eastern Froglet

- Variable colouration from grey-brown to reddish, and can be smooth or covered in ridges.
- Underside granular with black & white blotches.
- Length = 25-30mm.
- Call = repeated clicking “crick, crick, crick”.



Census year	October	Census
# of sites where recorded	73	52
% of total sites surveyed	64	53

Codes of sites where this species was detected during Census week 2015

AMA100	FGD030	LDM100
ANU012	FGD040	LWP100
ANU042	FMC220	LWR100
CBR004	FRA201	LWR200
CEQ100	FTB010	MCW001
CEQ200	FTD010	MCW002
CFR300	FTD015	MFL002
CMC600	FTD120	MFL017
DGP001	FTD165	NBP001
DIW100	GIN002	NBP002
FAD100	GIN007	NBP003
FAD500	HAL001	PIN100
FAR002	HAL002	QBN010
FAR002	HOL100	STW009
FBM100	JER100	UHD015
FER100	JER500	WAM005
FGC009	JER520	
FGD020	JER570	

Limnodynastes dumerili

Eastern Banjo Frog or Pobblebonk



- Grey-brown in colour with a large glandular strip running from the top of the shoulder to the mouth.
 - Sides of body with blotched markings.
 - Length = up to 85mm.
 - Call = repeated “bonk” or “thunk” from the water.
-

Census year	October	Census
# of sites where recorded	26	18
% of total sites surveyed	23	18

Codes of sites where this species was detected during Census week 2015

ANU012
ANU019
ANU042
DIW100
FGC009
FGC030

FGC090
FTB010
FTD010
FTD015
FTD120
FTD165

GIN002
HAL001
JER100
LWR100
LWR200
MFL011

Limnodynastes peronii

Brown Striped Frog

- Distinctive light and dark brown stripes on the dorsal surface.
- Slightly raised glandular stripe along the mouth and behind the eye.
- Length = 70mm.
- Call = single “tock” repeated.



Census year	October	Census
# of sites where recorded	18	10
% of total sites surveyed	16	10

Codes of sites where this species was detected during Census week 2015

ANU019
ANU021
DIW100
FGC009

FLE100
JER520
JER570
LWR200

MCW001
NBP002

*Limnodynastes tasmaniensis*¹

Spotted Grass Frog

- Blotched appearance with dark & light markings.
- Red or orange stripe along spine.
- Length = 50mm.
- Call = “uck, uck, uck”.



Census year	October	Census
# of sites where recorded	77	64
% of total sites surveyed	68	65

Codes of sites where this species was detected during Census week 2015

AMA100	FTB010	MFL055
ANU012	FTD010	NAD011
ANU042	FTD015	NAD034
ARA200	FTD165	NAD036
ARA300	GIN007	NBP002
CBR004	HAL001	NBP003
CEQ100	HAL002	PIN100
CEQ200	JER100	QBN010
CFR300	JER560	RCD001
CHC300	JER570	RCD002
CMC600	LDM100	STP100
CRW001	LWP100	UHD015
DGP001	LWR100	
DIW100	LWR200	
DUF100	LYW010	
DUF200	MCW002	
FAD100	MFL002	
FAD300	MFL003	
FAD500	MFL005	
FGC009	MFL011	
FGD020	MFL013	
FGD040	MFL014	
FLE100	MFL015	
FMC220	MFL016	
FRA200	MFL017	
FRA201	MFL021	



*Litoria peroni*¹

Peron's Tree Frog

- Broad round toe discs, yellow & black mottling behind the back legs, & tiny emerald flecks on the dorsal surface.
- Length = 50mm.
- Call = loud, descending rattle or cackle.

Census year	October	Census
# of sites where recorded	61	50
% of total sites surveyed	54	51

Codes of sites where this species was detected during Census week 2015

ANU019
ANU021
DIW100
FGC009

FLE100
JER520
JER570
LWR200

MCW001
NBP002

*Litoria verreauxii*¹

Whistling Tree Frog

- Dark brown or black stripe in front of the eye to the base of the forelimb.
- Broad brownish mid-dorsal marking.
- Length = 30mm.
- Call = repeated whistling “cree..., cree..., cree...”.



Census year	October	Census
# of sites where recorded	35	27
% of total sites surveyed	31	28

Codes of sites where this species was detected during Census week 2015

CFR300	FTD015	LWR200
CRW001	FTD120	MCW001
FAR002	FTD165	MFL003
FBP001	GIN007	MFL014
FGC009	HAL001	MFL015
FGC030	JER100	MFL055
FRA201	LDM100	STW009
FTB010	LWP100	UHD015
FTD010	LWR100	WAM005

*Uperoleia laevigata*¹

Smooth Toadlet

- Warty appearance with an orange patch behind & in front of each thigh.
- Pale triangular patch between the eyes.
- Length = 25mm.
- Call = low pitched, drawn out “wwhrrrkkkkk”.



Census year	October	Census
# of sites where recorded	44	33
% of total sites surveyed	39	34

Codes of sites where this species was detected during Census week 2015

ARA100	FAR002	MFL003
ARA200	FAR002	MFL005
CEQ100	FGD020	MFL013
CEQ200	FMC220	MFL017
CMC600	FTD015	MFL055
DGP001	FTD165	NAD034
DUF100	LDM100	PIN100
DUF200	LWP100	QBN010
FAD300	LWR200	RCD001
FAD500	LYW010	RCD002
FAR001	MFL002	UHD015

*Neobatrachus sudelli*¹

Spotted Burrowing Frog

- Squat, short-legged frog with numerous wart-like bumps that give a sand-paper appearance.
- Broad pattern of greenish-brown & darker blotches on the back.
- Length = 50mm.
- Call = soft, rapidly repeated clucking sounds.



This species is the most terrestrial frog found in the region, spending most of the year sheltering in deep burrows in the soil. Individuals are usually only found active on the ground at night after periods of very heavy rainfall, when the ground is completely soaked. No spotted burrowing frogs were detected during Census week 2015. However, weekly monitoring of a subset of **FROGWATCH** sites as part of a different project, revealed this frog being very active during end of August.

Census year	2015	October	Census
# of sites where recorded	2	0	0
% of total sites surveyed	-	0	0



*Litoria aurea*¹

Green and Golden Bell Frog

- Large green or green and brown/gold in colour.
- Smooth back and bright blue or purple on hind side of thighs.
- Length = 80 - 120mm.
- Call = soft, distinctive drawn out deep 'wrrraaaaagh wrrraaaaagh wrrrkk, wrrkkk wrrk'.

As in previous years only basking individuals were observed but no calls heard. Since the commencement of the annual **FROGWATCH** census this species has only been found twice, in 2006 and 2009 when calling males were recorded at one site each.

¹ Species information taken from Lintermans, M. and Osborne, W. (2002). Wet & Wild: A Field Guide to the Freshwater Animals of the Southern Tablelands and High Country of the ACT and NSW. Canberra: Environment ACT.

Discussion

2015 was the busiest year for **FROGWATCH** since its commencement in 2003. A total of 738 surveys were handed in during the year, more than half of which were done throughout the year, i.e. outside of October. 140 out of the 247 October surveys were done during Census week (Figure 4 and Table 5).

This very strong trend was triggered by two additional monitoring projects,

1. the Climate Change project, with weekly monitoring from June till the end of October, and
2. the habitat assessment project, which required frequent monitoring at all of the 32 involved sites.

The involvement in these projects shows that **FROGWATCH** has moved from being a simple community-engagement program to functioning as an important citizen science platform. The data collected by **FROGWATCH** volunteers is rigorous and of high quality and is representing one of the rare long-term data sets on frog distribution and abundance worldwide.

Both projects mentioned above were only made possible by the availability of long term frog data for the region. The same data set was also successfully used to publish a summary of findings from the first 12 years of Frogwatch monitoring.

In addition, both projects attracted amazing support from the public, which reflects the strong interest of volunteers to take part in frog research and to contribute in an ongoing way, rather than just once annually in October.

The overall achievements of the **FROGWATCH** Program were officially recognized through the ACT 2015 Citizen Science Award.

Due to the more frequent surveys breeding data for *Neobatrachus sudelli* was collected, which shows that this species breeds during winter in our region.

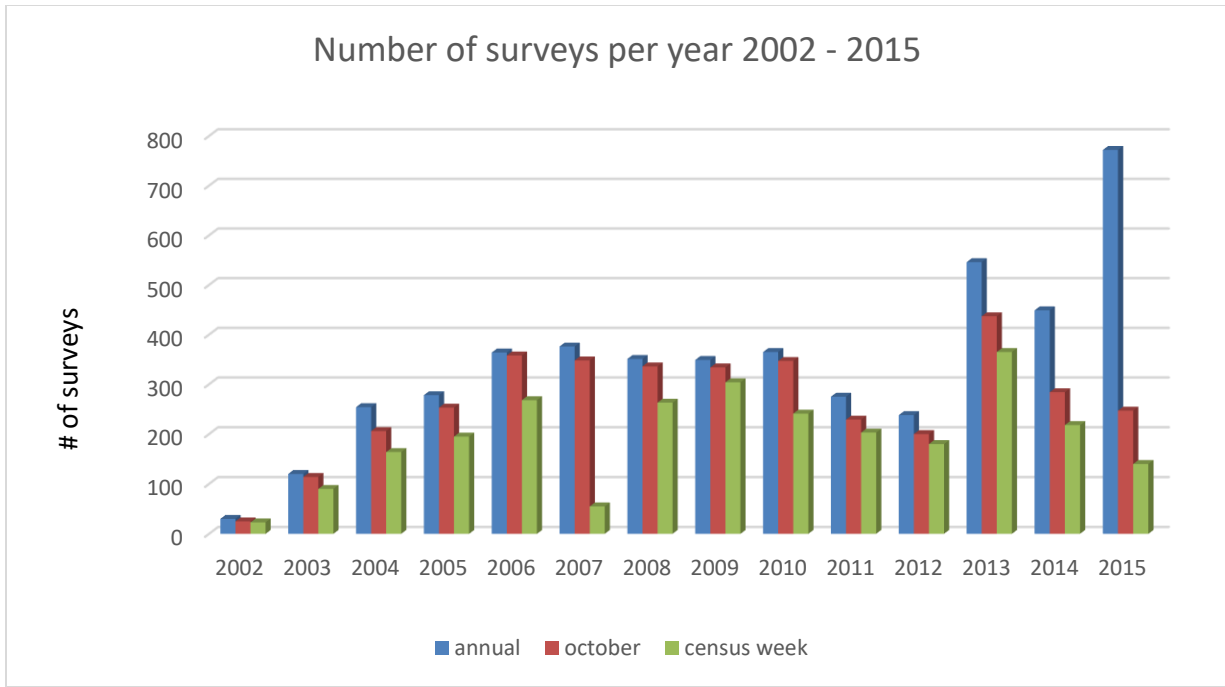


Figure 4: Number of surveys done between 2002 and 2015 in the ACT and surrounding region. Blue columns show the total annual survey number, red columns show the total number of surveys done during October (Census month) and green columns show the number of surveys done during Census week.

Table 5: FROGWATCH survey numbers for the ACT and surrounding region in 2002 to 2015.

year	Annual	October	Census week
2002	30	25	23
2003	120	114	90
2004	254	206	164
2005	278	253	195
2006	364	358	268
2007	376	348	55
2008	351	336	263
2009	349	334	304
2010	365	347	241
2011	275	229	203
2012	238	200	180
2013	546	437	365
2014	449	284	218
2015	772	247	140

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Appendix 1

FROGWATCH Volunteers 2015

Due to issues with the updated Data Portal not every person involved in the 2015 **FROGWATCH** census is listed here and we do apologise for this as each and every contribution is fully appreciated!!

Alana Wilkes
Alex Thompson
ANU Green volunteers
Blue Water Rovers
Brendan Eyers
Clare Lonergan
Corin pennock
David Wyatt
Danswell Starrs
Edward Isaacs
Frances FitzGibbon
Hannah Selmes
Hannah Ransom
Jamie Begg
Jim Arnold
Kerry Webber
Laure Ealing
Mark Smith
Merran Laver
Olivia Williams
Orla Gray
Penelope Lilley
Ryu Callaway
Sarah Hnatiuk
Sean Coggan
Sharon Koh
Simon Cunich
Stephen and Wendy Hodgman
Steve Newman
Tim Yui
Tristan Skinner
Volunteer Interpreter Program

Appendix 2

Site Location Details of all **FROGWATCH** sites; Note: sites listed in red are Key sites (see page 5 for more detail).

Site code	Site name	Site type 1=key, 2=non-key	Latitude	Longitude	State	District	Property type
AMA100	Upper Ginninderra Creek, Amaroo - new Amaroo Pond	2	-35.1682	149.1192	ACT	Gungahlin	Public land
AMH100	Anke Maria's Pond	2	-35.2353	149.0454	ACT	Belconnen	Private property
ANB100	Australian National Botanic Gardens Pond	2	-35.2781	149.1101	ACT	North Canberra	Public land
ANU004	Dickson Rd Carpark	2	-35.2805	149.1117	ACT	North Canberra	Public land
ANU012	Dickson Rd Carpark - dam	2	-35.2805	149.1117	ACT	North Canberra	Public land
ANU018	Sullivans Creek, downstream of Burgmann College.	2	-35.2819	149.1121	ACT	North Canberra	Public land
ANU019	Sullivans Creek corner of Daley Rd and Ward Rd	2	-35.2797	149.1151	ACT	North Canberra	Public land
ANU020	Sullivans Creek Stepping Stones, Adjacent to Building 46.	2	-35.2796	149.1169	ACT	North Canberra	Public land
ANU021	Sullivans Creek, adjacent to building 45.	2	-35.2779	149.1191	ACT	North Canberra	Public land
ANU022	Sullivans Creek, upstream of University Ave bridge	2	-35.2786	149.1202	ACT	North Canberra	Public land
ANU023	Sullivans Creek, downstream of Barry Drive GPT	2	-35.2754	149.1235	ACT	North Canberra	Public land
ANU041	Constructed swale, adjacent to Phenomics building	2	-35.2836	149.1156	ACT	North Canberra	Public land
ANU042	Constructed pond, adjacent to Dickson Rd Carpark, Acton	2	-35.2796	149.1122	ACT	North Canberra	Public land
ANU22B	Sullivans Creek, upstream of University Ave bridge	2	-35.2786	149.1202	ACT	North Canberra	Public land
ARA100	Aranda Paddock Dam, adjacent to William Hovell Drive.	2	-35.2764	149.0779	ACT	Belconnen	Public land
ARA200	Large Dam North of ARA100	2	-35.2730	149.0775	ACT	Belconnen	Public land

ARA300	Bush dam, Aranda	2	-35.2747	149.0863	ACT	Belconnen	Public land
BAD200	Badja River below Maggies Xing	2	-36.1672	149.3828	NSW	Cooma	Public land
BAD300	Badja River Doghole	2	-36.1622	149.3878	NSW	Cooma	Public land
BAD600	Badja River at Braidwood Road	2	-36.1210	149.4893	NSW	Cooma	Public land
BAR020	Upper Dam, west arm Barracks Creek Queanbeyan	2	-35.3804	149.2307	NSW	Queanbeyan	Public land
BAR050	Lower Dam, west arm Barracks Creek Queanbeyan	2	-35.3802	149.2323	NSW	Queanbeyan	Public land
BAR200	Doyle Reserve, Queanbeyan	2	-35.3759	149.2369	NSW	Queanbeyan	Public land
BAR201	Barracks Flat Neighborhood Park, S of Barracks Flat Drive	2	-35.3769	149.2365	NSW	Queanbeyan	Public land
BIL100	Billabong Park stormwater retention pond, Watson	2	-35.2340	149.1553	ACT	North Canberra	Public land
BIN100	Farm dam CRN of Boulder Place and Binowee Drive Corner, Little Burra	2	-35.4775	149.1986	ACT	Googong	Public land
BIN110	Ditch alongside Farm Dam BIN100	2	-35.4778	149.1986	ACT	Googong	Private property
BIN200	Backyard Pond, 98 Binowee Drive, Little Burra	2	-35.4764	149.1994	ACT	Googong	Private property
BLA100	Blackey's Hill, Uriarra Rd.	2	-35.2995	149.0125	ACT	Molonglo Valley	Public land
BLU100	Blundells Flat, Bog 1	2	-35.3203	148.8317	ACT	Cotter	Public land
BLU200	Blundells Flat, site 2 - small creekline	2	-35.3198	148.8311	ACT	Cotter	Public land
BLU300	Blundells Flat, site 3 - Condor Creek, upstream	2	-35.3185	148.8311	ACT	Cotter	Public land
BLU400	Blundells Flat, site 4 - Condor Creek, downstream	2	-35.3158	148.8316	ACT	Cotter	Public land
BMT100	Black Mountain Dam, near pass under Caswell Drive.	2	-35.2726	149.0890	ACT	North Canberra	Public land
BON100	Stranger Pond, Bonython	2	-35.4291	149.0733	ACT	Tuggeranong	Public land
BON200	Stranger Pond Central - Bonython	2	-35.4296	149.0714	ACT	Tuggeranong	Public land
BRA100	Bradleys Creek, Upstream	2	-35.4383	149.2948	ACT	Googong	Public land
BRA200	Bradleys Creek, Downstream	2	-35.4375	149.2937	ACT	Googong	Public land
BRE100	Bredbo River @ Peakview Road	2	-35.9760	149.4083	NSW	Cooma	Public land
BRU100	Agar St, Bruce. Back of AIS, next to the bike path	2	-35.2442	149.1058	ACT	Belconnen	Public land
BRU200	Bruce CIT water storage pond	2	-35.2484	149.0956	ACT	Belconnen	Public land
BSW001	Banksia Street Wetland - Oconnor	2	-35.2576	149.1180	ACT	North Canberra	Public land

BUN100	Elmslea water quality ponds, Bungendore	2	-35.2502	149.4448	NSW	Bungendore	Public land
BUN200	Elmslea Estate Pond, Bungendore	2	-35.2472	149.4476	NSW	Bungendore	Public land
BUR700	259 BADGERY ROAD DAM	2	-35.5817	149.2167	ACT	Googong	Public land
CAP400	Molonglo River, Captains Flat south	2	-35.5979	149.4450	NSW	Captains Flat	Public land
CAV100	Caves Quarry Dam, Pierce's Creek Forest	2	-35.3447	148.9420	ACT	Cotter	Public land
CBR001	Callum Brae Site 1	2	-35.3567	149.1412	ACT	South Canberra	Public land
CBR002	Callum Brae Site 2	2	-35.3571	149.1398	ACT	South Canberra	Public land
CBR003	Callum Brae Site 3	2	-35.3573	149.1379	ACT	South Canberra	Public land
CBR004	Callum Brae Site 4	2	-35.3555	149.1370	ACT	South Canberra	Public land
CDD100	Bottom dam of Cecily Dignan Farm Dams	2	-35.5808	149.2160	NSW	Cooma	Public land
CDD200	Top dam of Cecily Dignan Farm Dams	2	-35.5813	149.2097	NSW	Cooma	Public land
CEQ100	Canberra Equestrian Park, Pond 1, Chapman.	2	-35.3563	149.0150	ACT	Weston Creek	Public land
CEQ200	Canberra Equestrian Park, Pond 2, Chapman.	1	-35.3577	149.0188	ACT	Weston Creek	Public land
CFR100	CEASED!!!! Molonglo River on Reynolds property, near Balcombe Hill	1	-35.3894	149.3661	NSW	Captains Flat	Public land
CFR200	Hodgman Property, large dam	2	-35.5487	149.4420	NSW	Captains Flat	Public land
CFR300	Molonglo River, just off Captains Flat Rd	2	-35.5401	149.4463	NSW	Captains Flat	Public land
CGH050	Hospital Creek, Namadgi National Park	2	-35.7481	148.9879	ACT	Namadgi	Public land
CGH100	Hospital Creek, Namadgi	2	-35.7481	148.9879	ACT	Namadgi	Public land
CHC200	Calvary Hospital Drain 2, Bruce	2	-35.2522	149.0841	ACT	Belconnen	Public land
CHC300	Calvary Hospital Ponds	2	-35.2537	149.0869	ACT	Belconnen	Public land
CMC100	Cooleman Ridge, Old Dam	1	-35.3570	149.0263	ACT	Weston Creek	Public land
CMC150	Dam near Chapman Water Tank	2	-35.3610	149.0285	ACT	Weston Creek	Public land
CMC600	Mount Neighbor Horse Paddock Dam	1	-35.3813	149.0414	ACT	Tuggeranong	Public land
CMC700	Vikings BMX Park, Kambah	2	-35.3712	149.0549	ACT	Tuggeranong	Public land
CMC750	Fisher Dam, Fisher	2	-35.3699	149.0565	ACT	Weston Creek	Public land
CMM200	Stormwater Settling Pond, Gordon	2	-35.4581	149.0830	ACT	Lanyon Valley	Public land

CMM350	Downriver from Lanyon Homestead	2	-35.4664	149.0642	ACT	Lanyon Valley	Public land
CMM900	Murrumbidgee River at Mittagang Road Xing	2	-36.1681	149.2750	NSW	Cooma	Public land
CMW500	Weston Creek Gross Pollutant Trap	2	-35.3268	149.0511	ACT	Weston Creek	Public land
CMW550	Adjacent to Weston Creek Gross Pollutant Trap	2	-35.3267	149.0520	ACT	Weston Creek	Public land
COB010	Cooma Back Creek at confluence	2	-36.2308	149.1192	NSW	Cooma	Public land
COB011	Cooma Back Creek at Kerwan Street	2	-36.2338	149.1170	NSW	Cooma	Public land
COB012	Cooma Back Creek at Showground	2	-36.2400	149.1191	NSW	Cooma	Public land
CON100	Condor Wetlands, pond A	2	-35.4622	149.1057	ACT	Lanyon Valley	Public land
CON110	Condor Wetlands, pond B	2	-35.4615	149.1046	ACT	Lanyon Valley	Public land
COO013	Cooma Back Creek at Lambie Gorge	2	-36.2413	149.1163	NSW	Cooma	Public land
COO100	Cooleman Ridge, North-west Dam	2	-35.3501	149.0226	ACT	Weston Creek	Public land
COO300	Cooma Creek at Mittagang Crossing	2	-36.1922	149.1180	NSW	Cooma	Public land
COO350	Cooma Creek at North Ridge	2	-36.2159	149.1205	NSW	Cooma	Public land
COO400	Cooma Creek downstream of confluence with Cooma back Creek	2	-36.2285	149.1204	NSW	Cooma	Public land
COO405	Cooma creek upstream of Cooma Back Creek confluence	2	-36.2304	149.1211	NSW	Cooma	Public land
COO500	Cooma Creek at Albert St	2	-36.2401	149.1335	NSW	Cooma	Public land
COO580	Cooma Creek at Skatepark	2	-36.2341	149.1295	NSW	Cooma	Public land
COO625	Cooma Creek at Banksia Lane	2	-36.2502	149.1320	NSW	Cooma	Public land
COR100	Kangaroo Creek pond, Corin dam road.	2	-35.5370	148.8642	ACT	Namadgi	Public land
COT100	Cotter Camp Ground	2	-35.3259	148.9486	ACT	Cotter	Public land
COT150	Cotter River just below Corin Dam	2	-35.5343	148.8376	ACT	Namadgi	Public land
CRA300	Wells Station and Gungahlin Drive Intersection, Crace	2	-35.2062	149.1319	ACT	Gungahlin	Public land
CRW001	Crace Wetland Pond 1	2	-35.2005	149.1017	ACT	Gungahlin	Public land
CTP450	Murrays Corner	2	-35.3636	148.9521	ACT	Cotter	Public land
CTP500	Tanners Flat Creek Bridge- changed from Flints Crossing	2	-35.4012	148.9604	ACT	Cotter	Public land
CTP510	Tidbinbilla River on Paddy's River Road	2	-35.4261	148.9444	ACT	Cotter	Public land

CTT100	Lower Tuggeranong Creek	2	-35.4072	149.0601	ACT	Tuggeranong	Public land
CTT300	Upper Tuggeranong Creek, Theodore	2	-35.4405	149.1261	ACT	Tuggeranong	Public land
DGP001	Dunlop Grasslands Dam	1	-35.1850	149.0332	ACT	Belconnen	Public land
DIW100	Dickson Wetland, Hawdon Street	2	-35.2508	149.1479	ACT	North Canberra	Public land
DUC100	Duck Dam	2	-35.4197	149.2447	ACT	Googong	Public land
DUF100	Southern dam on Narrabundah Hill	2	-35.3437	149.0230	ACT	Weston Creek	Public land
DUF200	Narrabundah Hill, North Dam	2	-35.3320	149.0241	ACT	Weston Creek	Public land
DUF300	Dam near bushfire memorial	2	-35.3246	149.0278	ACT	Weston Creek	Public land
DUF400	Bush fire memorial dam	2	-35.3240	149.0299	ACT	Weston Creek	Public land
FAD100	Fadden Hills Silt Pond	2	-35.3980	149.1170	ACT	Tuggeranong	Public land
FAD150	Fadden, West Appel bog	2	-35.3993	149.1069	ACT	Tuggeranong	Public land
FAD300	Wanniassa Hills Dam	1	-35.3942	149.1098	ACT	Tuggeranong	Public land
FAD400	Wanniassa Nature Reserve (east)	2	-35.3950	149.1273	ACT	Tuggeranong	Public land
FAD500	Wanniassa Nature Reserve (North-east)	2	-35.3895	149.1246	ACT	Tuggeranong	Public land
FAR001	Farrer Ridge Dam 1	2	-35.3904	149.1066	ACT	Tuggeranong	Public land
FAR002	Farrer Ridge Dam 2	2	-35.3901	149.1060	ACT	Tuggeranong	Public land
FBM100	Glenloch interchange dam	1	-35.2833	149.0871	ACT	North Canberra	Public land
FBM200	Black Mountain Storage Yard Pool	2	-35.2705	149.1051	ACT	North Canberra	Public land
FBM300	Black Mountain Path Pool	2	-35.2703	149.1053	ACT	North Canberra	Public land
FBM400	Black Mountain Dam 4	2	-35.2612	149.0982	ACT	North Canberra	Public land
FBM500	Black Mountain, Mountain Fire Trail dam	2	-35.2786	149.0872	ACT	Belconnen	Public land
FBP001	West Belconnen Pond. GPT Outflow Point	2	-35.1879	149.0201	ACT	Belconnen	Public land
FER100	Fernhill Technology Park pond, Bruce	2	-35.2397	149.0908	ACT	Belconnen	Public land
FER200	Fernleigh Park at Jerrabomberra Creek Bridge	2	-35.4390	149.1943	ACT	Googong	Public land
FGC006	Ginninderra Creek at Spain Place footbridge, Evatt	2	-35.2167	149.0614	ACT	Belconnen	Public land
FGC007	Ginninderra Creek, at Ginninderra Drive, Flynn	2	-35.2133	149.0364	ACT	Belconnen	Public land

FGC009	Jarramlee Pond (Dunlop Pond 1)	1	-35.2031	149.0140	ACT	Belconnen	Public land
FGC010	Lake Ginninderra and College Creek Junction, Lawson	2	-35.2258	149.0821	ACT	Belconnen	Public land
FGC020	College Creek, Lawson	2	-35.2263	149.0828	ACT	Belconnen	Public land
FGC029	Fassifern pond	2	-35.1981	149.0096	ACT	Belconnen	Public land
FGC030	Gooromon Ponds Creek, Dunlop	1	-35.1976	149.0079	ACT	Belconnen	Public land
FGC031	Gooromon Ponds Creek just past the confluence with Ginninderra Creek	2	-35.1983	149.0068	ACT	Belconnen	Public land
FGC040	Diddums Close beach, Lake Ginninderra	2	-35.2246	149.0689	ACT	Belconnen	Public land
FGC045	Diddums Close - Lake Ginninderra near Ginninderra Drive	2	-35.2298	149.0759	ACT	Belconnen	Public land
FGC050	Pantowara Rd Creek, University of Canberra campus	2	-35.2351	149.0817	ACT	Belconnen	Public land
FGC090	Ginninderra Creek, Macgregor	1	-35.2128	149.0151	ACT	Belconnen	Public land
FGC091	Ginninderra Creek, at Macgregor, via Crago Place	2	-35.2125	149.0154	ACT	Belconnen	Public land
FGD005	John Knight Park Pond, Belconnen	2	-35.2353	149.0755	ACT	Belconnen	Public land
FGD010	Lake Ginninderra West side	2	-35.2331	149.0655	ACT	Belconnen	Public land
FGD020	Oconnor Ridge Dam	2	-35.2456	149.1123	ACT	North Canberra	Public land
FGD030	Australian Institute of Sport, Drain near bike path	2	-35.2415	149.1053	ACT	Belconnen	Public land
FGD035	AIS Wetland	2	-35.2414	149.1047	ACT	Belconnen	Public land
FGD040	Aranda Bushland Dam	2	-35.2772	149.0823	ACT	Belconnen	Public land
FGG010	Giralang Pond, Giralang	2	-35.2156	149.0883	ACT	Belconnen	Public land
FGW100	Eastern Boardwalk Bog, Umbagog District Park, Latham	2	-35.2122	149.0295	ACT	Belconnen	Public land
FGW150	Western Boardwalk Bog, Umbagog District Park, Latham	2	-35.2144	149.0265	ACT	Belconnen	Public land
FGW200	Herron Creek, Latham	2	-35.2112	149.0280	ACT	Belconnen	Public land
FGW250	Ginninderra Creek, Footbridge at intersection of Backhouse & Macrossa	2	-35.2150	149.0246	ACT	Belconnen	Public land
FLE100	Flemington Road Dam, Gungahlin	2	-35.1862	149.1410	ACT	Gungahlin	Public land
FLO200	Stormwater drainage channel, cnr Ginninderra Drive & Kingsford Smith	2	-35.2187	149.0447	ACT	Belconnen	Public land
FMC020	Queanbeyan River at River Reserve Barracks Flat	2	-35.3718	149.2381	NSW	Queanbeyan	Public land

FMC030	Jerrabomberra Creek	2	-35.4008	149.1917	NSW	Queanbeyan	Public land
FMC040	Buttles Creek, Queanbeyan aka BUT095	2	-35.3486	149.2412	NSW	Queanbeyan	Public land
FMC045	Buttles creek Queanbeyan	2	-35.3480	149.2448	NSW	Queanbeyan	Public land
FMC060	Levee Bank, Fisher St, Ainslie	2	-35.2646	149.1492	ACT	North Canberra	Public land
FMC100	Levee bank, Fisher St Ainslie Identical with FMC060 need to be fused!!!	2	-35.2646	149.1492	ACT	North Canberra	Public land
FMC180	Grassy swampy section of creek Mt Majura	2	-35.2514	149.1719	ACT	North Canberra	Public land
FMC200	Mt Majura Dam, bottom, via McKenzie St.	2	-35.2510	149.1745	ACT	North Canberra	Public land
FMC210	Mt Majura Nature Reserve, top dam, via McKenzie St	2	-35.2506	149.1769	ACT	North Canberra	Public land
FMC220	Mt Majura Dam, lower, via Jukes St	1	-35.2412	149.1688	ACT	North Canberra	Public land
FMC230	Mt Majura dam at saddle - Doogie Dam	2	-35.2632	149.1710	ACT	North Canberra	Public land
FMD010	Water Tank 1, Hackett	2	-35.2447	149.1682	ACT	North Canberra	Public land
FMF320	Justice Robert Hope Park Dam	2	-35.2355	149.1610	ACT	North Canberra	Public land
FMW010	David St Wetland, Oconnor	1	-35.2633	149.1239	ACT	North Canberra	Public land
FMW020	Dryandra St Wetland, Oconnor	2	-35.2580	149.1086	ACT	North Canberra	Public land
FOR001	Forde Wetland between Horse Park Drive and Neil Harris Cres	2	-35.1742	149.1399	ACT	Gungahlin	Public land
FOR002	Forde Pond	2	-35.1723	149.1466	ACT	Gungahlin	Public land
FRA200	Edlington St Pond, Fraser	2	-35.1873	149.0434	ACT	Belconnen	Public land
FRA201	Halls Creek, Fraser	2	-35.1854	149.0409	ACT	Belconnen	Public land
FRH100	Red Hill Stormwater Drain	2	-35.3280	149.1311	ACT	South Canberra	Public land
FTB010	Bogong Creek, Namadgi National Park	1	-35.7491	148.9713	ACT	Namadgi	Public land
FTC010	Cooma Creek	2			NSW	Cooma	Public land
FTD010	Top Weir/Brolga Pond, Tidbinbilla Nature Reserve	1	-35.4667	148.9058	ACT	Tidbinbilla	Public land
FTD015	Vets Centre, Tidbinbilla Nature Reserve	2	-35.4630	148.9072	ACT	Tidbinbilla	Public land
FTD120	Boardwalk Pond, Tidbinbilla Nature Reserve	1	-35.4641	148.9069	ACT	Tidbinbilla	Public land
FTD160	Barbeque Swamp, Tidbinbilla Nature Reserve	2	-35.4548	148.9203	ACT	Tidbinbilla	Public land

FTD165	Bottom Dam	2	-35.4636	148.9084	ACT	Tidbinbilla	Public land
FTD200	Tidbinbilla - Flints(?), large dam at top	2	-35.4598	148.9207	ACT	Tidbinbilla	Public land
FTD220	Sheedy's Picnic Area	2	-35.4429	148.9282	ACT	Tidbinbilla	Public land
FTD250	Tidbinbilla - Flints(?), smaller dam at bottom	2	-35.4591	148.9208	ACT	Tidbinbilla	Public land
FTP100	Isabella Pond	2	-35.4229	149.0791	ACT	Tuggeranong	Public land
FTR010	Orroral River Campsite, Namadgi National Park	2	-35.6656	148.9870	ACT	Namadgi	Public land
FTR020	Cotter Flats, upper Cotter River	2	-35.6350	148.8223	ACT	Namadgi	Public land
FTT010	Tuggeranong Homestead	2	-35.4315	149.1097	ACT	Tuggeranong	Public land
FYS100	Jerrabomberra Creek, CIT carpark, Fyshwick	2	-35.3302	149.1581	ACT	South Canberra	Public land
FYS200	DFO Dam, Fyshwick	2	-35.3383	149.1843	ACT	South Canberra	Public land
GCC100	Condor Creek on Brindabella Road Bridge	2	-35.3210	148.8624	ACT	Cotter	Public land
GFW002	Stormwater drainaige into Gungahlin Pond, Nicholls	2	-35.1949	149.1046	ACT	Gungahlin	Public land
GFW005	John Knight Park - top pond	2	-35.2355	149.0765	ACT	Belconnen	Public land
GIN002	Footbridge at Mirrabai Drive, Amaroo	2	-35.1727	149.1194	ACT	Gungahlin	Public land
GIN005	Ginninderra Creek at Percival Hill Nature Reserve, Nicholls	2	-35.1966	149.1028	ACT	Gungahlin	Public land
GIN007	Ginninderra Creek d/s of Barton Highway, Giralang	2	-35.2007	149.0925	ACT	Belconnen	Public land
GIN008	Ginninderra Creek downstream from GIN007	2	-35.2011	149.0918	ACT	Belconnen	Public land
GIN009	Ginninderra Creek, downstream of Lake Ginninderra dam wall	2	-35.2190	149.0670	ACT	Belconnen	Public land
GIN012	Ginninderra Creek below Melba-Copland Junior Campus	2	-35.2154	149.0544	ACT	Belconnen	Public land
GIN024	Ginninderra Creek at Umbagog Stepping Stones, Latham	2	-35.2158	149.0284	ACT	Belconnen	Public land
GIN100	Gungahlin Marketplace Dam and small pond	2	-35.1912	149.1330	ACT	Gungahlin	Public land
GLE100	Glen Esk dam near old piggery, Murrumbateman	2	-35.0518	149.0992	NSW	Murrumbateman	Public land
GOG001	Tin Hut Dam	1	-35.4974	149.2587	ACT	Googong	Public land
GOG002	Willow Crossing	2	-35.5204	149.2602	ACT	Googong	Public land
GOG003	Plummers Dam	1	-35.5338	149.2076	ACT	Googong	Private property
GOG004	Leaky Dam	2	-35.5408	149.2029	ACT	Googong	Public land

GOG005	Googong Burra Creek, Homestead Crossing	2	-35.5216	149.2577	ACT	Googong	Public land
GUN001	Gungahlin Pond	2	-35.1916	149.1099	ACT	Gungahlin	Public land
GUN100	Gungahlin Scout Hall Dam	2	-35.1861	149.1238	ACT	Gungahlin	Public land
GUN110	Gungahlin Scout Hall Dam EAST,	2	-35.1862	149.1239	ACT	Gungahlin	Public land
GUN200	Burgman Anglican School Pond	2	-35.1882	149.1251	ACT	Gungahlin	Public land
GUN300	Haystack Dam, gungahlin	2	-35.1900	149.1279	ACT	Gungahlin	Public land
GUN400	Gundaroo Native Forest, Large Dam	2	-34.9795	149.3198	NSW	Gundaroo	Public land
GUN500	Gundaroo River - Creek 1	2	-34.9794	149.3200	NSW	Gundaroo	Public land
GUN600	Gundaroo Native Forest, Small Dam	2	-34.9680	149.2995	NSW	Gundaroo	Public land
GUN700	Denoon Street Drain	2	-35.1647	149.1427	ACT	Gungahlin	Public land
HAL001	Halls Creek Showground Bridge, Hall	2	-35.1716	149.0735	ACT	Gungahlin	Public land
HAL002	Halls Creek, Pony Club, Hall	2	-35.1713	149.0747	ACT	Gungahlin	Public land
HAL011	Halls Creek Showground Bridge - North	2	-35.1730	149.0724	ACT	Gungahlin	Public land
HAR001	Harrison pond	2	-35.1940	149.1568	ACT	Gungahlin	Public land
HOL100	Holder drainage channel, between Cotter Rd and Dixon Drive, Holder	2	-35.3277	149.0443	ACT	Weston Creek	Public land
HOS001	175 Pollack Rd Hoskinstown Angus Adair's Farm	2	-35.4138	149.4336	NSW	NSW	Private property
ICH001	Illoura Paddock Dam	2	-35.3229	149.0665	ACT	Weston Creek	Public land
ICH002	Illoura Paddock Creek Bridge	2	-35.3278	149.0662	ACT	Weston Creek	Public land
ICH003	Illoura Creek below bridge	2	-35.3267	149.0675	ACT	Weston Creek	Public land
JBT001	Melba BMX track - stormwater tributary	2	-35.2176	149.0532	ACT	Belconnen	Public land
JER010	Jerrabomberra Creek Old Cooma Rd	2	-35.4668	149.1846	ACT	Googong	Public land
JER020	Jerrabomberra Creek, Lanyon Drive Bridge	2	-35.3853	149.1726	NSW	Queanbeyan	Public land
JER100	Jerrabomberra Creek at Barrett's	1	-35.5151	149.1715	ACT	Googong	Public land
JER101	Jerrabomberra Creek at Barrett's	2	-35.5151	149.1715	ACT	Googong	Public land
JER102	Jerrabomberra Creek at Barrett's	2	-35.5151	149.1715	ACT	Googong	Public land
JER110	Jerrabomberra Creek at Barrett's - between JER100 and	2	-35.5153	149.1716	ACT	Googong	Public land

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JER300	Jerrabomberra Dairy Creek - Mill Creek	2	-35.3353	149.1591	ACT	South Canberra	Public land
JER310	Jerrabomberra Dairy Creek - Mill Creek	2	-35.3351	149.1591	ACT	South Canberra	Public land
JER320	Jerrabomberra Dairy Creek - Mill Creek	2	-35.3324	149.1609	ACT	South Canberra	Public land
JER500	Jerrabomberra Wetlands. First bird hide from Dairy Rd Carpark	1	-35.3148	149.1630	ACT	Molonglo Valley	Public land
JER510	Jerrabomberra Wetlands N/E edge of billabong	2	-35.3192	149.1625	ACT	Molonglo Valley	Public land
JER520	Jerrabomberra Wetlands Billabong Service trail	2	-35.3189	149.1617	ACT	Molonglo Valley	Public land
JER530	Jerrabomberra Wetlands Silt trap north	2	-35.3180	149.1597	ACT	Molonglo Valley	Public land
JER540	Jerrabomberra Wetlands Silt trap south crossing	2	-35.3215	149.1599	ACT	Molonglo Valley	Public land
JER550	Jerrabomberra Wetlands Jerra Creek Bridge	2	-35.3148	149.1592	ACT	Molonglo Valley	Public land
JER560	Jerrabomberra Wetlands Fulica Hide	2	-35.3149	149.1576	ACT	Molonglo Valley	Public land
JER570	Jerrabomberra Wetlands Education Centre Fence	2	-35.3167	149.1625	ACT	Molonglo Valley	Public land
JER580	Jerrabomberra Wetlands at southern tip of reserve	2	-35.3211	149.1611	ACT	Molonglo Valley	Public land
JER610	Jerrabomberra Wetlands Shoveller Pond	2	-35.3065	149.1623	ACT	Molonglo Valley	Public land
JER620	Jerrabomberra Wetlands Molonglo River Bank	2	-35.3055	149.1622	ACT	Molonglo Valley	Public land
JER630	Jerrabomberra Wetlands Paleo channel area	2	-35.3047	149.1546	ACT	Molonglo Valley	Public land
JER640	Jerrabomberra Wetlands Paleo Channel 1	2	-35.3055	149.1543	ACT	Molonglo Valley	Public land
JER650	Jerrabomberra Wetlands Peninsula Split	2	-35.3070	149.1502	ACT	Molonglo Valley	Public land
JER660	Jerrabomberra Wetlands Sewer Pond (near pump station)	2	-35.3133	149.1643	ACT	Molonglo Valley	Public land
JER670	Jerrabomberra Wetlands Sewer Pond permanent water	2	-35.3159	149.1649	ACT	Molonglo Valley	Public land
JER680	Jerrabomberra Wetlands at Sewerage ponds	2	-35.3086	149.1599	ACT	Molonglo Valley	Public land
JUM010	Jumping Creek, 400m upstream from Queanbeyan River	2	-35.3737	149.2539	NSW	Queanbeyan	Private property
KAL200	Creek leading into stormwater drain at Kaleen.	2	-35.2223	149.1151	ACT	Belconnen	Public land
KAL250	Pine forest at Bokhara Cct, Kaleen	2	-35.2310	149.1159	ACT	Belconnen	Public land
KAM100	Kama Horse Paddocks, Dam 1, off William Hovell drive, Aranda	2	-35.2612	149.0245	ACT	Molonglo Valley	Public land

KAM150	North Kama, south dam	2	-35.2610	149.0330	ACT	Belconnen	Public land
KAM200	Kama Horse Paddocks, Dam 2, off William Hovell drive, Aranda	2	-35.2650	149.0241	ACT	Molonglo Valley	Public land
KAM300	Kama Horse Paddocks, Dam 3, off William Hovell drive, Aranda	2	-35.2685	149.0276	ACT	Molonglo Valley	Public land
KIP001	Kippax Creek, Holt	2	-35.2163	149.0196	ACT	Belconnen	Public land
LAW100	Lawrence Pond, Higgins	2	-35.2270	149.0200	ACT	Belconnen	Public land
LDM100	Lookout Dam, Holt	1	-35.2440	148.9802	ACT	Molonglo Valley	Public land
LGC001	Nerin Nerin Ck, Lake George	2	-35.0983	149.3768	NSW	Gundaroo	Public land
LWP100	Little Whiskers Rd, Pond Site	2	-35.3921	149.3804	NSW	Queanbeyan	Public land
LWR100	Little Whiskers Rd, River Site	2	-35.3907	149.3807	NSW	Queanbeyan	Public land
LWR200	Briar Sharrow Bridge	2	-35.3909	149.3847	NSW	NSW	Public land
LYW010	Lyneham Wetland	2	-35.2547	149.1305	ACT	North Canberra	Public land
MCQ150	McQuoids Creek Large Dam	2	-35.3870	149.0256	ACT	Tuggeranong	Public land
MCW001	McKellar wetland, constructed 2000	2	-35.2160	149.0826	ACT	Belconnen	Public land
MCW002	McKellar wetland, constructed 2004	2	-35.2130	149.0821	ACT	Belconnen	Public land
MFL001	Mulligans Flat Site 1	2	-35.1673	149.1548	ACT	Gungahlin	Public land
MFL002	Mulligans Flat Site 2	1	-35.1674	149.1562	ACT	Gungahlin	Public land
MFL003	Mulligans Flat Site 3	1	-35.1661	149.1588	ACT	Gungahlin	Public land
MFL004	Mulligans Flat Site 4	2	-35.1651	149.1563	ACT	Gungahlin	Public land
MFL005	Mulligans Flat Site 5	1	-35.1638	149.1578	ACT	Gungahlin	Public land
MFL006	Mulligans Flat Site 6	2	-35.1619	149.1606	ACT	Gungahlin	Public land
MFL007	Mulligans Flat Site 7	2	-35.1636	149.1638	ACT	Gungahlin	Public land
MFL008	Mulligans Flat Site 8	2	-35.1525	149.1547	ACT	Gungahlin	Public land
MFL009	Mulligans Flat Site 9	2	-35.1491	149.1538	ACT	Gungahlin	Public land
MFL010	Mulligans Flat Site 10	2	-35.1435	149.1597	ACT	Gungahlin	Public land
MFL011	Mulligans Flat Site 11	1	-35.1793	149.1584	ACT	Gungahlin	Public land

MFL012	Mulligans Flat Site 12	2	-35.1780	149.1615	ACT	Gungahlin	Public land
MFL013	Mulligans Flat Site 13	1	-35.1753	149.1664	ACT	Gungahlin	Public land
MFL014	Mulligans Flat Site 14	2	-35.1664	149.1819	ACT	Gungahlin	Public land
MFL015	Mulligans Flat Site 15	2	-35.1647	149.1783	ACT	Gungahlin	Public land
MFL016	Mulligans Flat Site 16	2	-35.1666	149.1789	ACT	Gungahlin	Public land
MFL017	Mulligans Flat Site 17 - in Bettong enclosure!!	1	-35.1631	149.1751	ACT	Gungahlin	Public land
MFL018	Mulligans Flat Site 18	2	-35.1610	149.1723	ACT	Gungahlin	Public land
MFL019	Mulligans Flat Site 19	2	-35.1640	149.1702	ACT	Gungahlin	Public land
MFL020	Mulligans Flat Site 20	2	-35.1684	149.1732	ACT	Gungahlin	Public land
MFL021	Mulligans Flat Site 21	2	-35.1668	149.1754	ACT	Gungahlin	Public land
MFL022	Mulligans Flat Site 22	2	-35.1650	149.1574	ACT	Gungahlin	Public land
MFL023	Daisy Gate Small dam	2	-35.1787	149.1539	ACT	Gungahlin	Public land
MFL055	small pond 100 m away from 005	2	-35.1635	149.1586	ACT	Gungahlin	Public land
MGC100	Murrumbidgee Golf Course	2	-35.3873	149.0380	ACT	Tuggeranong	Public land
MGC200	Murrumbidgee Golf Course swampy spot	2	-35.3945	149.0345	ACT	Tuggeranong	Public land
MIR100	Drain into Ginninderra Creek, just off Mirrabai Drive, Amaroo	2	-35.1711	149.1196	ACT	Gungahlin	Public land
MIT100	Gungahlin Cemetary, Mitchell	2	-35.2130	149.1314	ACT	Gungahlin	Public land
MIT200	Hibberson St Pond, Mitchell	2	-35.1868	149.1367	ACT	Gungahlin	Public land
MOL010	Molonglo River lagoon near River Street	2	-35.3372	149.2283	NSW	Queanbeyan	Public land
MOL100	Molonglo River, ACT Water Ski Area	2	-35.3047	149.1742	NSW	Queanbeyan	Public land
MOL150	Molonglo River, at Molonglo River Park (Waterwatch Site MOL200)	2	-35.3316	149.2500	NSW	Queanbeyan	Public land
MOL200	Molonglo River, below Scrivener Dam wall	2	-35.3020	149.0705	ACT	Molonglo Valley	Public land
MOL250	Clos Crossing	2	-35.3180	149.0524	ACT	Molonglo Valley	Public land
MOL300	Southwells Crossing	2	-35.3188	149.0472	ACT	Molonglo Valley	Public land
MOL350	Misery Point	2	-35.3188	149.0471	ACT	Molonglo Valley	Public land

MOL360	Happy Point	2	-35.3097	149.0365	ACT	Molonglo Valley	Public land
MOL400	Coppins Crossing	2	-35.2859	149.0398	ACT	Molonglo Valley	Public land
MOL450	Molonglo River Park, western and most downstream FW site	2	-35.2792	149.0277	ACT	Molonglo Valley	Public land
MOL600	Creek near Tannery Beard	2	-35.3424	149.1992	NSW	Queanbeyan	Public land
MOL602	Beard Creek 1	2	-35.3382	149.2026	NSW	Queanbeyan	Public land
MOL605	Molonglo River Downstream at Oaks Estate Rd Causeway	2	-35.3374	149.2219	NSW	Queanbeyan	Public land
MOL606	Molonglo River Upstream at Oaks Estate Rd Causeway	2	-35.3378	149.2222	NSW	Queanbeyan	Public land
MOL608	Molonglo River Downstream Old Bridge on Yass Rd Qbyn	2	-35.3350	149.2401	NSW	Queanbeyan	Public land
MOL609	Molonglo River Upstream Old Bridge on Yass Rd Qbyn	2	-35.3347	149.2413	NSW	Queanbeyan	Public land
MUR010	Jones Park	2	-34.9692	149.0303	NSW	Murrumbateman	Public land
MUR510	Murrumbidgee River at Billilingra Xing	2	-36.0236	149.1383	NSW	Cooma	Public land
MYA050	Yarralumla Creek	1	-35.3074	149.0720	ACT	Molonglo Valley	Public land
MYA100	Yarralumla Ck, Curtin Oval	2	-35.3167	149.0797	ACT	Woden Valley	Public land
MYR100	Myrtle Rise, Mcauliffe Lane, Nanima Rd, Hall	2	-35.0523	149.0808	NSW	Murrumbateman	Public land
MYR200	Largest dam, Myrtle Rise, Mcauliffe Lane, Nanima Rd, via Hall	2	-35.0541	149.0807	NSW	Murrumbateman	Public land
MYR300	Top dam at Myrtle Rise, Hall	2	-35.0564	149.0804	NSW	Murrumbateman	Public land
NAD011	National Arboretum Dam	2	-35.2911	149.0734	ACT	Molonglo Valley	Public land
NAD034	National Arboretum Dam near Cork oak Lot 34	2	-35.2840	149.0814	ACT	Molonglo Valley	Public land
NAD036	National Arboretum Larch Dam Forest 36	2	-35.2869	149.0608	ACT	Molonglo Valley	Public land
NAS100	Southern Tablelands Environmental Park	2	-35.2846	149.0661	ACT	Molonglo Valley	Public land
NBP001	Nursery Inlet Pond 1, southern pond, closer to golf club	2	-35.2985	149.0897	ACT	ACT	Public land
NBP002	Nursery Inlet pond 2- northern pond closer to the lake and nursery	2	-35.2984	149.0897	ACT	ACT	Public land
NBP003	Royal Golf Club of Canberra pond- Will Osborne site	2	-35.3046	149.0908	ACT	Weston Creek	Private property
NIR100	Pond-River Nimmitabel	2	-36.5168	149.2851			Public land
NPG100	North Paddock Dam, Gundaroo Common	2	-35.0241	149.2767	NSW	Gundaroo	Public land

NUM040	Numeralla River Mt Forest Xing	2	-36.2842	149.3117	NSW	Cooma	Public land
NUM050	Numeralla River Stokes' Xing	2	-36.2217	149.3639	NSW	Cooma	Public land
NUM060	Kybeyan River at Numeralla River confluence	2	-36.2222	149.3572	NSW	Cooma	Public land
NUM070	Numeralla River below Kybeyan River confluence	2	-36.2200	149.3569	NSW	Cooma	Public land
NUM080	Numeralla River below Badja River confluence	2	-36.1736	149.3472	NSW	Cooma	Public land
NUM090	Numeralla River Ford at Arnika	2	-36.1567	149.3217	NSW	Cooma	Public land
NUM100	Numeralla River PP Board Xing	2	-36.1441	149.2752	NSW	Cooma	Public land
NUM200	Numeralla River West	2	-36.1414	149.2303	NSW	Cooma	Public land
NUM205	Numerella River at Deepwater	2	-36.1799	149.3510	NSW	Cooma	Public land
NUM220	Numeralla River at Murrumbidgee River confluence	2	-36.0775	149.1575	NSW	Cooma	Public land
NUM999	Lake Numerella	2	-36.1764	149.4038	NSW	Cooma	Public land
OMA040	East O'Malley Creek (wallangara Creek)	2	-35.3479	149.1140	ACT	Woden Valley	Public land
ORA001	Orana School Drainage Gully	2	-35.3281	149.0583	ACT	Weston Creek	Public land
ORA002	Orana School Dam	2	-35.3256	149.0589	ACT	Weston Creek	Public land
ORR100	Orroral Valley: Rock waterfall Stream, Namadgi National Park	2	-35.6646	148.9889	ACT	Namadgi	Public land
ORR200	Orroral Valley, Nursery Swamp Trail. Carpark Creek, Namadgi NP	2	-35.6536	148.9594	ACT	Namadgi	Public land
OSR001	Dam 1. Front gate	2	-35.1076	149.1047	NSW	Murrumbateman	Public land
OSR002	Dam 2	2	-35.1045	149.1028	NSW	Murrumbateman	Public land
OSR003	Dam 3. Big back dam	2	-35.1055	149.1004	NSW	Murrumbateman	Public land
OSR004	Dam 4 Swim Dam	2	-35.1062	149.1019	NSW	Murrumbateman	Public land
OSR005	Dam 5. Hidden Dam	2	-35.1092	149.1024	NSW	Murrumbateman	Public land
OSR006	Dam 6	2	-35.1083	149.1016	NSW	Murrumbateman	Public land
PAI200	Wildflower Triangle Dam	2	-35.2695	149.0749	ACT	Belconnen	Public land
PCF000	Cotter River at Thompsons Flat	2	-35.3250	148.9405	ACT	Cotter	Public land
PCF001	Dam near Pierces Creek	2	-35.3402	148.9160	ACT	Cotter	Public land

PCF002	Pierces Creek	2	-35.3385	148.9148	ACT	Cotter	Public land
PIN010	Backyard pond, Ambalindum St, Hawker	2	-35.2542	149.0318	ACT	Belconnen	Private property
PIN100	Pinnacle Dam, Hawker	1	-35.2608	149.0433	ACT	Belconnen	Public land
PIP010	Pipeline Creek Reserve, Jerrabomberra	2	-35.3835	149.2027	NSW	Queanbeyan	Public land
QBN009	25 Lonergran Dr, Dodsworth	2	-35.3715	149.2444	NSW	Queanbeyan	Private property
QBN010	33 Lonergran Drive, Greenleigh	2	-35.3724	149.2464	NSW	Queanbeyan	Private property
QBN011	Mountain Rd Drainage Ditch	2	-35.3369	149.2166	NSW	Queanbeyan	Public land
QBN012	Mountain Rd Dam	2	-35.3367	149.2170	NSW	Queanbeyan	Public land
QBN450	Queanbeyan River at Doeberl Reserve	2	-35.3756	149.2511	NSW	Queanbeyan	Public land
QBN455	Queanbeyan River adj Barracks Flat Drive east of Doerbel St.	2	-35.3746	149.2501	NSW	Queanbeyan	Public land
QBN465	Queanbeyan River adj Dane St	2	-35.3689	149.2373	NSW	Queanbeyan	Public land
QBN466	Queanbeyan River adj Dane St near clum of elms	2	-35.3694	149.2375	NSW	Queanbeyan	Public land
QRS001	Queanbeyan Railway Station	2	-35.3427	149.2280	NSW	Queanbeyan	Public land
RCD001	Rose Cottage horse paddock 8 and Dam	1	-35.3963	149.1348	ACT	Tuggeranong	Public land
RCD002	Rose Cottage horse paddock 7 and dam	2	-35.3978	149.1361	ACT	Tuggeranong	Public land
RED100	Red Hill nature park	2	-35.3425	149.1177	ACT	South Canberra	Public land
RIP010	Cementary off Freestone Crescent Jerrabomberra	2	-35.3689	149.2025	NSW	Queanbeyan	Public land
RIV001	Riverview Dam Paddock Dam	2	-35.3355	148.9656	ACT	Cotter	Public land
RIV002	Riverview River Paddock Dam	2	-35.3404	148.9675	ACT	Cotter	Public land
SFF100	Stromlo Forest Retention Dam	1	-35.3215	149.0443	ACT	Molonglo Valley	Public land
SFF101	Below Stromlo Forest Retention Dam needs to be reinstated after construction activities are completed!!	2	-35.3213	149.0444	ACT	Molonglo Valley	Public land
SHA001	2792 Shannons Flat Road	2	-36.0245	149.0017	NSW	Cooma	Private property
SMO100	Smokers Flat, Namadgi National Park	2	-35.5355	148.9072	ACT	Namadgi	Public land
STI100	Molonglo River at Murrumbidgee	2	-35.2433	148.9659	ACT	Molonglo Valley	Public land
STP050	Strathnairn Gallery interim pond	2	-35.2307	148.9931	ACT	Belconnen	Private property

STP100	Strathnairn Gallery Main Pond	2	-35.2317	148.9947	ACT	Belconnen	Public land
STP150	Strathnairn Gallery Western pond	2	-35.2324	148.9953	ACT	Belconnen	Public land
STW003	Florey Stormwater Drain, Melba	2	-35.2175	149.0454	ACT	Belconnen	Public land
STW009	West Belconnen Pond Sth Inflow	2	-35.1903	149.0166	ACT	Belconnen	Public land
SWA100	Fellows Pond, Ginninderra Creek, Latham	2	-35.2148	149.0312	ACT	Belconnen	Public land
TAY100	Mt Taylor Dam 1	2	-35.3656	149.0659	ACT	Tuggeranong	Public land
TAY200	Mt Taylor Dam 2	2	-35.3606	149.0692	ACT	Tuggeranong	Public land
TBD001	Tannoch Brae Farm Dam	2	-34.7969	148.7590	NSW	Yass	Private property
TGC100	Glendale Crossing	2	-35.6926	149.0004	ACT	Namadgi	Public land
TGC300	Upper Gibraltar Creek	2	-35.5131	148.9254	ACT	Namadgi	Public land
TGN200	Gudgenby River below Naas Crossing	2	-35.6007	149.0500	ACT	Namadgi	Public land
TMC100	Middle Creek, Namadgi	2	-35.7433	148.9635	ACT	Namadgi	Public land
TOR100	Orroral River Campsite, Namdgi NP	2	-35.6656	148.9870	ACT	Namadgi	Public land
TRA100	Travica property, Gundaroo. Lower Dam	2	-35.0740	149.3076	NSW	Gundaroo	Private property
TRC100	Rendevous Creek, Namadgi National Park	2	-35.7321	148.9961	ACT	Namadgi	Public land
TSC100	Tuggeranong Sporting Club Dam	2	-35.4156	149.0604	ACT	Tuggeranong	Public land
TUG100	North-East Lake Tuggeronong	2	-35.3983	149.0716	ACT	Tuggeranong	Public land
UBD015	Urila Bottom Dam, Property Dendendaloom, 462 Urila Rd, Urila, 2620	2	-35.5717	149.2694	NSW	NSW	Private property
UCP100	University of Canberra, man-made pond near early childhood centre	2	-35.2400	149.0870	ACT	Belconnen	Public land
UHD015	Urila Home Dam, Property Dendendaloom, 462 Urila Rd, Urila, 2620	2	-35.5735	149.2703	NSW	NSW	Private property
UMB100	Ginninderra Creek, Umbagong Carpark, "Umbagong Willows"	2	-35.2148	149.0262	ACT	Belconnen	Public land
UMD004	Tharwa Sandwash, Tharwa	2	-35.5289	149.0785	ACT	Tharwa	Public land
UMD005	Point Hut Crossing, Gordon	2	-35.4515	149.0657	ACT	Lanyon Valley	Public land
UMD006	Kambah Pool, Kambah	2	-35.3949	149.0083	ACT	Tuggeranong	Public land

UMD007	Casuarina Sands, Cotter	2	-35.3189	148.9605	ACT	Cotter	Public land
UMS002	Gongoandra Creek, above ford	2	-35.8833	149.1519	NSW	Cooma	Public land
UMS003	Gungoandra creek, at shed	2	-35.9108	149.1511	NSW	Cooma	Public land
UMS004	Top Dam, Scottsdale	2	-35.9069	149.1206	NSW	Cooma	Public land
URI001	Uriarra Road permanent frog monitoring site (35)	2	-35.2976	149.0045	ACT	Molonglo Valley	Private property
URI002	Uriarra Road. Pine Plantation Dam, Left hand side of road.	2	-35.2994	149.0054	ACT	Molonglo Valley	Public land
URI003	Uriarra Road first dam from Coppins	2	-35.3080	149.0182	ACT	Molonglo Valley	Public land
WAM001	Wamboin Community Centre Dam	2	-35.2588	149.3060	NSW	Wamboin	Public land
WAM005	Merran's Pond	2	-35.1809	149.3136	NSW	Wamboin	Public land
WEE001	Weetalabah - Dam at entry gates	2	-35.3442	149.2807	NSW	Queanbeyan	Private property
WEE002	Weetalabah - site 2	2	-35.3419	149.2771	NSW	Queanbeyan	Private property
WEE004	Weetalabah - site 4	2	-35.3395	149.2756	NSW	Queanbeyan	Private property
WEE100	Weemalla, Fairview Rd, Wallaroo	2	-35.1131	149.0860	NSW	Murrumbateman	Public land
WGC001	Woodhaven Golf Course	2	-35.2293	148.9999	ACT	Belconnen	Public land
YRR100	Yass River Reserve, Gundaroo	2	-35.0285	149.2630	NSW	Gundaroo	Public land

Appendix 3

Monitoring Summary of all FROGWATCH sites in the ACT and surrounding region.

Note: Key sites in red.

code	# of site surveys during		
	census week	October	2015
AMA100	1	1	1
AMH100	0	0	3
ANU012	2	3	4
ANU019	2	2	2
ANU021	2	2	2
ANU042	2	2	2
ARA100	1	1	2
ARA200	1	1	1
ARA300	1	1	1
BON100	0	0	1
BSW001	0	1	2
CAV100	0	1	1
CBR004	1	1	1
CEQ100	3	3	3
CEQ200	3	3	3
CFR200	1	2	2
CFR300	1	5	22
CHC101	1	1	1
CHC300	2	2	2
CMC100	0	0	1
CMC600	1	1	1
COO100	1	4	21
CRW001	3	3	3
DGP001	1	4	24
DIW100	2	4	4
DUF100	1	4	22
DUF200	1	4	23
DUF300	1	1	1
FAD100	1	2	5
FAD500	1	1	1

code	# of site surveys during		
	Census week	October	2015
FAD300	2	3	5
FAR001	1	2	2
FAR002	2	3	3
FBM100	4	4	5
FBP001	1	1	1
FER100	4	5	7
FGC009	5	5	6
FGC030	2	2	2
FGC090	2	2	2
FGC091	2	2	2
FGD005	1	2	3
FGD020	1	2	3
FGD030	1	1	1
FGD040	2	2	3
FLE100	2	2	2
FMC200	0	2	17
FMC210	0	2	16
FMC220	1	6	30
FMC230	0	1	1
FMW010	0	1	2
FRA200	1	4	24
FRA201	1	4	24
FTB010	1	4	2
FTD010	1	1	2
FTD015	1	1	1
FTD120	1	1	1
FTD165	1	1	1
FTD220	1	1	1
GFW005	1	1	1
GIN002	1	1	1
GIN007	1	1	1
GIN024	1	1	1
GUN001	1	1	1
HAL001	2	2	2
HAL002	2	2	2
HOL100	1	1	1

code	# of site surveys during		
	Census week	October	2015
JER100	3	3	3
JER500	1	1	4
JER510	0	0	1
JER520	1	1	3
JER530	1	1	4
JER540	0	0	2
JER550	0	0	1
JER560	1	1	3
JER570	1	1	3
LDM100	2	3	3
LWP100	2	5	22
LWR100	3	6	19
LWR200	2	5	17
LYW010	1	1	1
MCW001	1	2	3
MCW002	1	2	3
MFL001	0	1	1
MFL002	1	4	17
MFL003	1	4	17
MFL005	1	4	18
MFL007	0	2	2
MFL011	1	2	10
MFL012	0	1	9
MFL013	2	5	26
MFL014	1	1	1
MFL015	1	1	1
MFL016	1	2	2
MFL017	1	2	3
MFL020	1	1	1
MFL021	1	1	1
MFL023	0	1	9
MFL055	1	3	16
MIR100	0	1	1
MIT100	0	1	1
MYA050	1	1	1
NAD011	1	2	6

code	# of site surveys during		
	Census week	October	2015
NAD034	1	2	7
NAD036	1	2	6
NAS100	1	2	6
NBP001	1	4	21
NBP002	1	4	21
NBP003	1	4	21
ORA002	0	0	3
PAI200	0	1	4
PCF001	0	1	1
PIN100	2	2	2
QBN010	1	4	35
RCD001	2	2	2
RCD002	1	1	1
STP100	1	4	4
STW009	1	1	1
UBD015	0	0	4
UHD015	1	1	17
UMS002	0	1	7
UMS003	0	1	6
UMS004	0	1	7
WAM005	1	1	1
WEE100	0	0	1
YFD100	0	0	15