



Frogwatch

ACT and Region
National Water Week
Community Frogwatch Census Report

October 2004

Produced by the
Ginninderra Catchment Group



environment ACT
CHIEF MINISTER'S DEPARTMENT

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The Australian Capital Territory 2004 National Water Week Community Frogwatch Program was carried out with the assistance of funds made available by the ACT Government under the ACT Government Environment Grants Program.

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ACKNOWLEDGMENTS

The 2004 ACT and Region National Water Week Community Frogwatch Census would not be possible without the time and enthusiasm of all the volunteers who participated. Thank you for your commitment and generosity!

Special thanks goes to Kristen Kleeman for his generous assistance with identifying the frog calls.

Nigel Philpot, ACT Waterwatch Facilitator for his continued support and advice in all aspects of the program.

Murray Evans, Senior Wildlife Ecologist with Environment ACT and Will Osborne from the University of Canberra, for their great presentations at our Frogwatch seminars and excellent advice about technical aspects of the program.

Peter Ormay from Environment ACT Wildlife Research and Monitoring, for his assistance with species identification.

The Ginninderra Catchment Group for initiating and administrating the project.

Ederic Slater, who allowed us to copy his audio CD, "Frog Calls of the ACT" at a minimum cost for distribution to volunteers.

Damian Wall, Technical Support Officer with Environment ACT for his development of the GIS Frogwatch maps.

Peter Lehmann and Jennifer Hemer from the Australian National Botanic Gardens; Richard Manning and the Mugga Mugga Education Centre; and Beth Mitchell and the Australian National University for providing fantastic venues for our seminars.



1. ABOUT FROGWATCH

The ACT and Region National Water Week Community Frogwatch Program is a community frog monitoring program which conducts a Frogwatch Census in spring each year. This report presents the results of the 2004 Frogwatch Census.

ACT Frogwatch was initiated in 2002, when over 40 volunteers monitored frog calls at 29 sites. In 2003 the program expanded dramatically to provide a snapshot of frog species and abundance in the ACT and surrounding NSW region. In 2004, the popularity of the Frogwatch Census has continued to grow, with over 230 volunteers monitoring at close to 140 sites.

Frog species are widely recognised as indicators of environmental health and their presence can indicate good water quality and the availability of high quality habitat. Conversely, the absence or decline of frog populations can indicate unhealthy or degraded catchments.

The information collected will help to identify future community monitoring and action priorities that will create a more frog friendly Upper Murrumbidgee Catchment.

The aim of the program is: *To conduct an ACT and Region Community Frogwatch Census that will generate significant information about the presence and abundance of frog populations in the region.*

Census Information Objectives

- Increase understanding of frog distribution and abundance;
- increase knowledge and understanding about the health of our wetlands and waterways;
- monitor the impacts of bushfires and drought on our local ecosystems and catchments;
- monitor the impacts of bushfires on local wildlife and track recovery rates;
- provide supplementary information to Environment ACT's Wildlife Research and Monitoring Unit's professional frog monitoring program; and
- continue the collection of important frog monitoring data to enhance previous studies.

Community Capacity Building Objectives

- Provide an exciting, hands-on opportunity for community members to engage in natural resource management (NRM);
- provide opportunities for community involvement in wildlife monitoring;
- provide CAMPFIRE (Community Assessment Monitoring Program for Fire Impacted River Ecology) and Waterwatch groups the opportunity to broaden their monitoring activities;
- increase community capacity to understand a range of important environmental issues such as biodiversity, problems of introduced species, water quality, habitat loss and other impacts on natural ecosystems;
- facilitate community monitoring and evaluation of NRM on-ground works, e.g. wetland development, willow removal and revegetation projects;
- increase awareness of frog populations and their habitat requirements; and
- ensure that Frogwatch participants do not contribute to the spread of frog pathogens.



2. METHODOLOGY

Frogwatch participants attended one of three Frogwatch Seminars where they learnt about the different frog species in the region, their mating calls, basic safety and site selection guidelines, procedures for preventing the spread of potential frog pathogens, frog identification techniques and procedures for undertaking and recording Frogwatch observations.

All participants received a Frogwatch Kit, which contained:

- The Frogwatch Monitoring Plan;
- A list of frog species of the ACT and Region, with descriptions of habitat and calls;
- Pathogen Control Guidelines;
- Frog Facts!;
- Frog Resources;
- Procedures for Monitoring Frog Calls;
- Field Data Sheets;
- Contact Details and Feedback Forms;
- An audio CD - "Frog Calls of the ACT" by Ederic Slater;
- A Frogwatch Thermometer; and
- A blank cassette tape.

Each participant or group then registered their Frogwatch site(s). Participants were encouraged to monitor at the same site as previous years, or to select useful sites that had intrinsic value to the program. For example, a Waterwatch monitoring site, a newly constructed wetland area, an environmentally sensitive or bushfire affected area, proposed restoration sites, farm dams, or a site in which they have a particular interest.

Frog calls were then monitored by community volunteers at sites across the Upper Murrumbidgee according to the following guidelines:

	Season	Dates	Time of Day	How Often	Duration
Minimum monitoring:	Spring	National Water Week 17 th - 23 rd October 2004	During the 2 hours after dark (i.e. between about 7:30 - 9:30 pm during October)	On at least one evening during National Water Week	Tape recording of frog calls for 2 - 5 minutes
Extra monitoring:	Spring	7 th October - 3 rd November 2004	During the 2 hours after dark (i.e. between about 7:30 - 9:30 pm during October)	Monitoring at the same site on a number of evenings during the specified dates is desirable.	Tape recording of frog calls for 2 - 5 minutes

Participants were encouraged to conduct their monitoring on more than one occasion at the same site to increase the statistical reliability of the data. They were also encouraged to monitor during the 1 - 3 days following rainfall, if possible.



At each site, Frogwatchers recorded details about:

- Site Location;
- Habitat;
- Vegetation;
- Weather Conditions; and
- Frogs Species Observed.

These details were recorded onto Field Data Sheets. Participants took tape recordings of the sounds present during the early evening at their site. Even if there were no frogs calling, the data were collected and submitted. This information was then sent to the Frogwatch Coordinator for confirmation.

All audio tapes were checked for accuracy of identification by the Frogwatch Coordinator and a research student from the University of Canberra. A number of the tapes were also checked by Peter Ormay of Environment ACT Wildlife research and Monitoring to confirm unusual species or calls that were difficult to distinguish.

3. QUALITY ASSURANCE / QUALITY CONTROL

The data collected for the 2004 ACT Region National Water Week Community Frogwatch Census has undergone a strict process that ensures the quality of the data is known. The quality control procedures employed include:

- Monitoring of calls at all sites was undertaken during National Water Week, 17 - 23 October 2004, during the first 2 hours after dark. Observations taken outside of these specified minimum monitoring times are highlighted in *italics* in the results section of this report.
- Audio recordings were taken at all monitoring sites. These recordings were then used to confirm identification of species and the number of frogs calling. This data was assessed by the Frogwatch Coordinator and a research student from the University of Canberra. Unusual or difficult results were investigated by the Environment ACT Wildlife Research and Monitoring Unit. Any data that has not been confirmed is not included in this report.



4. FROGWATCH MONITORING SITES

Figure 1. Location of Frogwatch Monitoring Sites, Frogwatch Census October 2004

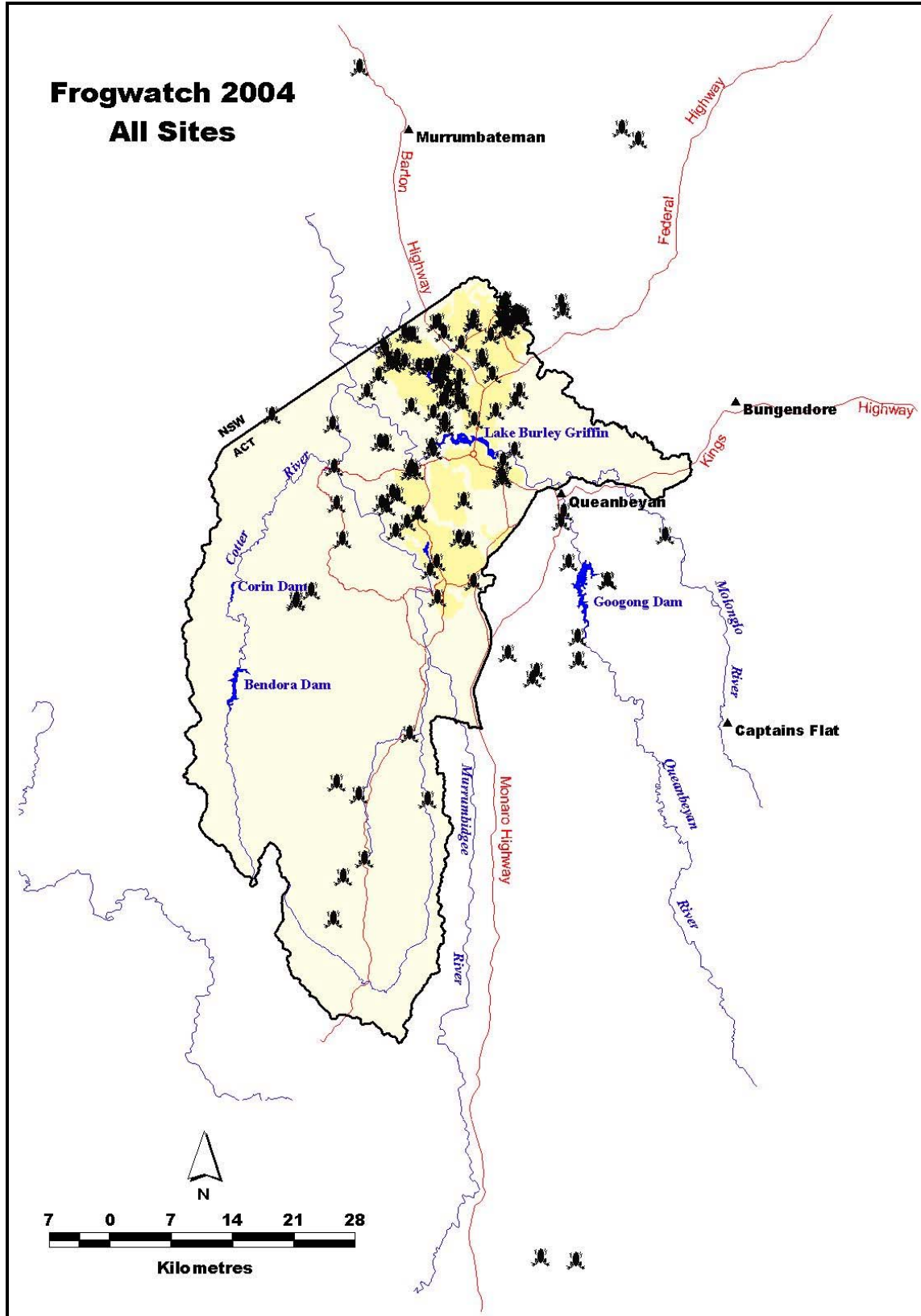


Table 1. Frogwatch Monitoring Site Location Details

Note: * Indicates a site that was monitored during the 2002 Frogwatch Census

φ Indicates a site that was monitored during the 2003 Frogwatch Census

Site Code	Site Name	Easting	Northing	Observers	Number of Sampling Occasions
AMA100	Upper Ginninderra Creek, Amaroo	693000	6106250	N. White, M. Anderson	1
BAR200	Barracks Flat Neighborhood Park, Queanbeyan	703040	6082790	A. Chuda, L. Lyons, M. Lyons	1
BON100	Stranger Pond, Bonython	688075	6077125	V. Kurz	1
BRA100	Bradleys Creek, Upstream	708300	6075925	N. Carroll, J. Hastie, R. Smith	1
BRA200	Bradleys Creek, Downstream	708200	6076025	N. Carroll, J. Hastie, R. Smith	1
CEQ100	Canberra Equestrian Park, Pond 1, Chapman	682500	6084900	C. Welsh, N. Webb, M. Welsh, A. Welsh	1
CEQ200	Canberra Equestrian Park, Pond 2, Chapman	683100	6084480	C. Welsh, N. Webb, M. Welsh, A. Welsh	1
CFR100 φ	Molonglo River on Reynolds property, near Balcombe Hill	714900	6081200	G., D., Z. & E. Reynolds & Bertie	3
CGH050 φ	Hospital Creek, Namadgi National Park	677000	6037000	J. Goodrum	1
CHC100 φ	Calvary Hospital Drain, Bruce	689800	6097000	M. McLean, T. Keen	1
CHC200	Calvary Hospital Drain, Bruce	689400	6096700	M. McLean, T. Keen	1
CMC100 φ	Coolleman Ridge, Old Dam	684250	6085750	A. Llorens	2
CMC600 φ	Mount Neighbor Horse Paddock Dam	685375	6082700	L. Royston, L. Fisk / W. Lichacz, E. Ormes-Lichacz	2
CMC700 φ	Vikings BMX Park, Kambah	686650	6083600	L. Royston, L. Fisk / W. Lichacz, E. Ormes-Lichacz	2
CMC750	Fisher Dam, Fisher	686750	6083750	W. Lichacz, E. Ormes-Lichacz, C. Viltling	1
CMM200 φ	Stormwater Settling Pond, Gordon	688911	6073974	M. Millard and S. Croke	2
CMW500 φ	Weston Creek Gross Pollutant Trap	686310	6088600	A. Llorens	2
COK100	Backyard Pond, Wybalena Grove, Cook	688375	6095335	D. Roe	1
COO100 φ	Coolleman Ridge, North-west Dam	683700	6086100	A. Llorens	2
COT100	Cotter Camp Ground	677115	6089075	V. Tanner	1
CRA300	Wells Station and Gungahlin Drive Intersection, Crace	693960	6101760	K. Magarey, R. Wejlarz, R. Ragless, E. Ragless, T. Magarey, P. Fraser	2
CTP450	Murrays Corner	677355	6084871	M. Blume and F. Horan / F. Spier, A. Calliess, R. Knight, D. Hasse, L. Stephensen, G. Stephenson, J. Goodrum, N. Philpot, K. Gould	2
CTP500	Flints Crossing	678026	6080699	M. Blume and F. Horan	1
CTT300 φ	Upper Tuggeranong Creek, Theodore	693000	6075820	J. Goodrum, L. Brandy, B. Brown and R. Knight	2
DGP001 φ	Dunlop Grasslands Dam	685136	604529	L. Churchill, M. Stevensen	1
DUC100	Duck Dam	703800	6078100	N. Carroll, J. Hastie, R. Smith	1
FAD100 φ	Fadden Hills Silt Pond	692320	6080750	A. Llorens	2
FAD200 φ	Garden Pond, Decker Place, Fadden	691825	6085250	A. Llorens	1
FAD300 φ	Waniassa Hills Dam	691300	6080950	A. Llorens	1
FBM100 φ	Black Mountain Dam	689750	6093750	T. Keen	1
FER100	Fernhill Technology Park pond, Bruce	690180	6098240	J. & R. Kiely	1
FGC009 * φ	Dunlop Pond 1	683000	6102500	P. Fawke	1

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Site Code	Site Name	Easting	Northing	Observers	Number of Sampling Occasions
FGC010 * φ	Lake Ginninderra and College Creek Junction, Lawson	689390	6099730	J. & R. Kiely	1
FGC020 * φ	College Creek, Lawson	689500	6099730	J. & R. Kiely	1
FGC030 * φ	Gooromon Ponds Creek, Dunlop	682700	6103050	F. & P. Fawke	1
FGC040 φ	Diddums Close beach, Lake Ginninderra	688690	6099390	J. & R. Kiely	1
FGC050 φ	Pantowara Rd Creek, University of Canberra	689290	6098710	J. & R. Kiely	1
FGC090 φ	Ginninderra Creek, Macgregor	683320	6101320	D. Lassam	1
FGD030 φ	Australian Institute of Sport, Drain near bike path	691250	6096800	D. Wong	1
FGD050 φ	Stormwater channel, back of Lyneham Ridge, Kaleen	691250	6098250	G. Glyde, D. Glyde, J. Batt, R. Will / R. Kharis, C. Lemerle	2
FGG010 * φ	Giralang Pond, Giralang	689990	6100990	M., S. & J. O'Halloran	3
FGW100 φ	Boardwalk Bog, Umbagog District Park, Latham	685156	6101166	R. Smith	1
FGW200 φ	Herron Creek, Latham	684218	6101207	R. Smith	1
FLE100	Flemington Road Dam, Gungahlin	694937	6104203	J. Gray, K. Muir	1
FLO100	Backyard Pond, Florey Drive, Macgregor	684300	6101750	M. Moore	1
FMC060 φ	Levee bank, Fisher St Ainslie	695500	6095500	C. & L. Dow	1
FMC100 φ	Levee bank, Fisher St Ainslie	695500	6095500	C. & L. Dow	1
FMC200 φ	Majura Dam 1	697750	6096750	P. & S. Darby, Nat, Ali and James	3
FMC210 φ	Mt Majura Dam, top dam	697600	6097300	J. Savigny, C. Baddeley, L. Bell, L. Steel	2
FMC220 φ	Mt Majura Dam, lower, via Jukes St	698200	6097860	J. Savigny, D. & J. Drohan, Tali, Scott and Sam	1
FMW010 * φ	David St Wetland, O'Connor	693100	6094450	G. & B. Hall & L. Hurley	1
FMW020 * φ	Dryandra St Wetland, O'Connor	691820	6096305	G. & B. Hall & L. Hurley	1
FRA200	Edlington St Pond, Fraser	686050	6104268	M. Stevenson, L. Churchill	2
FSC100 φ	Sullivans Creek at Flemington Rd, Mitchell	695123	6099697	P. Liston, W. Henderson	1
FTB010 * φ	Bogong Creek, Namadgi National Park	678100	6041900	J. Goodrum	1
FTD010 * φ	Rippers Pond, Tidbinbilla Nature Reserve	672800	6073800	F. Spier, A. Calliess, R. Knight, D. Hasse, L. Stephenson, G. Stephenson, J. Goodrum, N. Philpot, K. Gould	2
FTD120 φ	Boardwalk Pond, Tidbinbilla Nature Reserve	672700	6073500	F. Spier, A. Calliess, R. Knight, D. Hasse, L. Stephenson, G. Stephenson, J. Goodrum, N. Philpot, K. Gould	1
FTD160 φ	Barbecue Swamp, Tidbinbilla Nature Reserve	674500	6074800	F. Spier, A. Calliess, R. Knight, D. Hasse, L. Stephenson, G. Stephenson, J. Goodrum, N. Philpot, K. Gould	1
FTP100 φ	Isabella Pond	688750	6078067	J. Douglas, D. Giddings, R. Chow	2
FTR010 * φ	Orroral River Campsite, Namadgi National Park	679850	6051325	J. Goodrum	1
FYS100	Jerrabomberra Creek, CIT carpark, Fyshwick	696150	6088200	R., T. & H. McLeish	1
GBY100 φ	Backyard Pond, Fleetwood Smith St, Nicholls	689600	6104450	G. Medlin	5
GCC100 φ	Thompsons Corner, Condor Creek	670000	6095000	V. Tanner	1
GFW002 φ	Gungahlin Pond, Nicholls	691605	6103310	C. Williams	1



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Site Code	Site Name	Easting	Northing	Observers	Number of Sampling Occasions
GFW006 *φ	Ginninderra Creek, Footbridge near Spain Place, Evatt	687630	6100610	J. Carter	1
GIN002	Footbridge at Mirrabei Drive, Amaroo	692900	6105600	K. & L. Bishop	1
GIN009 φ	Ginninderra Creek, downstream of Lake Ginninderra dam wall	688129	6100714	S. & L. Rae	1
GOG001 φ	Tin Hut Dam	704870	6069450	N. Carroll, R. Cernaz	1
GOG002 φ	Willow Crossing	704950	6066900	N. Carroll, R. Cernaz	1
GOG003 φ	Plummers Dam	700150	6065520	N. Carroll & I. Anderson	2
GOG004 φ	Leaky Dam	699700	6064750	N. Carroll & I. Anderson	2
GUN400	Gundaroo Native Forest, Large Dam	711762	6126760	J. Gray	2
GUN500	Gundaroo River - Creek 1	711777	6126784	J. Gray	2
GUN600	Gundaroo Native Forest, Small Dam	709931	6128091	J. Gray	2
HAL001 φ	Halls Creek Showground Bridge, Hall	688920	6105800	G. & P. Medlin	1
HAL002	Halls Creek, Pony Club, Hall	688700	6105650	G. & P. Medlin	1
HAL005	Halls Creek, Fraser	685760	6104260	M. Stevenson, L. Churchill	1
HOL100	Holder drainage channel, between Cotter Rd and Dixon Drive, Holder	685700	6088600	W. & L. Barlow	2
JBT001 φ	Melba BMX track - stormwater tributary	686750	6100670	J. Cummings	3
JDOD01 φ	Came Creek, Aranda	689750	6094500	J. & D. O'Dea	1
JER100 φ	Jerrabomberra Creek at Barrett's	696916	6067645	L. Barrett, S. Taylor	1
JER300 φ	Jerrabomberra Dairy Creek - Mill Creek	696226	6087617	J. Lazzari, F. O'Laighin	2
JER310	Jerrabomberra Dairy Creek - Mill Creek	696229	6087637	J. Lazzari, F. O'Laighin	2
JER320	Jerrabomberra Dairy Creek - Mill Creek	696402	6087935	J. Lazzari, F. O'Laighin	2
JER500 φ	Jerrabomberra Wetlands. First bird hide from Dairy Rd Carpark	696400	6089755	A. Barlow, M. Glynn	1
KAL100	Backyard Pond, Diamantina Cr, Kaleen	691390	6099415	R. Howe	1
KIP001 * φ	Kippax Creek, Holt	683710	6100930	L. Gentle / D. Lassam	5
LDM100 φ	Lookout Dam, Holt	680850	6097750	A. Leavesley, M. Williams / C. Johnston, K. Murray, Z. Murray-Johnston	6
MCQ100	McQuoids Creek	684060	6081640	A. Pertsinidis	1
MCW001	McKellar wetland, constructed 2000	689350	6100750	J. Thome, K. Holland, H. Taite	1
MCW002 φ	McKellar wetland, constructed 2004	689500	6101125	J. Thome, K. Holland, H. Taite	1
MFL001 φ	Mulligans Flat Site 1	696180	6106030	D. Saunders, A. Leavesley, J. Nardini, E. Nardini / P. Liston, W. Henderson	7
MFL002 φ	Mulligans Flat Site 2	696250	6105995	A. Leavesley, D. Saunders, J. Nardini, E. Nardini	6
MFL003 φ	Mulligans Flat Site 3	696420	6106080	A. Leavesley, D. Saunders, J. Nardini, E. Nardini	6
MFL004 φ	Mulligans Flat Site 4	696285	6106120	A. Leavesley, D. Saunders, J. Nardini, E. Nardini	6
MFL005 φ	Mulligans Flat Site 5	696460	6106380	A. Leavesley, D. Saunders, J. Nardini, E. Nardini	6



... continued					
Site Code	Site Name	Easting	Northing	Observers	Number of Sampling Occasions
MFL006 φ	Mulligans Flat Site 6	696500	6106420	A. Leavesley, J. Nardini, E. Nardini	6
MFL007 φ	Mulligans Flat Site 7	696700	6106250	A. Leavesley, D. Saunders, J. Nardini, E. Nardini	6
MFL008 φ	Mulligans Flat Site 8	696285	6107720	D. Saunders, A. Leavesley	5
MFL009 φ	Mulligans Flat Site 9	696260	6107780	D. Saunders, A. Leavesley	5
MFL010	Mulligans Flat Site 10	696600	6108300	D. Saunders, A. Leavesley	5
MFL011	Mulligans Flat Site 11	696520	6104785	N. Munro, D. Saunders	2
MFL012	Mulligans Flat Site 12	696710	6104865	N. Munro, D. Saunders	2
MFL013	Mulligans Flat Site 13	697135	6105175	N. Munro, D. Saunders	2
MFL014	Mulligans Flat Site 14	698615	6106125	N. Munro	2
MFL015	Mulligans Flat Site 15	698615	6106125	J. Mackey, N. Munro	2
MFL016	Mulligans Flat Site 16	698310	6106130	N. Munro, D. Saunders, J. Mackey	3
MFL017	Mulligans Flat Site 17	697975	6106540	N. Munro	2
MFL018	Mulligans Flat Site 18	697750	6106715	N. Munro	2
MFL019	Mulligans Flat Site 19	697570	6106465	J. Mackey, N. Munro	2
MFL020	Mulligans Flat Site 20	697965	6106090	N. Munro, D. Saunders	3
MFL021	Mulligans Flat Site 21	698130	6106255	N. Munro, D. Saunders	2
MIR100	Drain into Ginninderra Creek, just off Mirrabai Drive, Amaroo	692900	6105700	K. & L. Bishop	1
MIT100	Gungahlin Cemetery, Mitchell	694000	6101250	J. Gray	1
MOL100	Molonglo River, ACT Water Ski Area	697680	6091000	P. Doyle	1
MOL200	Molonglo River, below Scrivener Dam wall	688250	6091500	R. & C. Cannon	2
MYA050 φ	Yarralumla Creek	688380	6090880	S. Nicholas, L. Paine	6
NAA100	Naas River causeway, Caloola Farm	687725	6050750	J. Goodrum	1
NUM100	Numeralla River East	704703	5997676	J. Gray, K. Muir	1
NUM200	Numeralla River West	700672	5998065	J. Gray, K. Muir	1
ORR100	Orroral Valley: Rock waterfall Stream, Namadgi National Park	676900	6094000	J. Goodrum	1
ORR200	Orroral Valley, Nursery Swamp Trail. Carpark Creek, Namadgi National Park	677375	6052700	J. Goodrum	1
PIN100	Pinnacle Dam, Hawker	685876	6096106	S. & L. Rae	3
PLM100 φ	Laver Farm Dam 1	680000 (AMG)	6135127 (AMG)	P., A. & L. Laver	1
PLM200 φ	Laver Farm Dam 2	680000 (AMG)	6135100 (AMG)	P., A. & L. Laver	1
QBN200	Queanbeyan River, adjacent to Dane St	703250	6083875	A. Chuda, L. & M. Lyons	1
SFF100 φ	Stromlo Forest Retention Dam	685850	6089090	T., L. & N. Brady	2
SUT100	Dam 1, "Macrorrhyncha", Moseley Property, Sutton	703000	6108080	J. & G. Moseley	1
SUT101	Dam 2, "Macrorrhyncha", Moseley Property, Sutton	703170	6107060	J. & G. Moseley	1
TGN200 φ	Gudgenby River below Naas Crossing	685700	6058400	J. Goodrum	1
TRC100 φ	Rendezvous Creek, Namadgi National Park	680525	6043925	J. Goodrum	1
URI001	Uriarra Road permanent frog monitoring site (35)	682953	6091878	K. Kleeman	2
URI002	Uriarra Road. Pine Plantation Dam, Left hand side of road.	682336	6091911	K. Kleeman	2
WGC001	Woodhaven Golf Course	682120	6099590	A. Leavesley, M. Williams, J. Leonard, N. Crane, C. Crane-Brown	3

