2 September 2014

ASX Announcement

Anomalous Radiometric Intervals intersected at NE Myra Prospect

- **Eight RC Percussion drill holes completed at the Northeast (NE) Myra Prospect on the Tin Camp Creek Project**
- **Radiometric anomalism detected in four drillholes at NE Myra**
- **Strongly anomalous radiometric response (>5000cps) detected in drillholes OBR14 -108 and OBR14-111.**
- **Field spectrometer analysis indicates anomalous radiometric responses associated with uranium**
- **400 metre trend of radiometric anomalism defined by drilling at NE Myra that remains open to the northeast.**
- **Drilling underway on Mintaka SAM/MMR targets**

Alligator Energy Ltd are pleased to provide a further update on exploration activities at the Tin Camp Creek Project in the Northern Territory. A further 8 RC Percussion drill holes have been completed on the Tin Camp Creek Project. A total of 15 drill holes have been completed in 2014 for a total of 2738 meters. The most recent drill holes targeted the Northeast Myra Prospect, 2km east and along strike of the Orion North Target.

Radiometric anomalism has been detected in 4 of the NE Myra drill holes. Strong radiometric responses were intersected in drill holes **OBR14-108 (maximum 5000cps from 93-94metres)** and **OBR14-111 (7878cps from 61-62metres)** over narrow intervals. Anomalism is associated with the interpreted continuation of SAM/MMR anomalies. Detailed Field radiometric screening results are provided in Table 2.

The field results obtained provide further encouragement of the presence of uranium mineralisation and anomalism over a significant strike length and that current targeting techniques are effective. Stronger radiometric anomalism detected in holes

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OBD14-108 and OBD14-111 are separated by 400metres. The strongest radiometric anomalism was returned from OBD14-111 which is located on the eastern most drill line and in the vicinity of a prominent deviation in the NE Myra fault zone providing strong encouragement for infill drilling and further drilling to the northeast.

Drilling is currently underway on the Mintaka Prospect SAM/MMR targets.

Sampling and Field Screening

RC chip samples were obtained at one metre intervals on each hole and scintillometer readings taken of each drill sample using a RS-125 Spectrometer. **Field screening results are provided as a guide only and are subject to sample variability and the sensitivity of the instrument. Uranium grades cannot be assumed from field screening and results are therefore provided as raw cps data.** Anomalous samples have been submitted for laboratory analysis and assay results for the NE Myra drilling are expected by late-September. Drill hole locations are provided on **Figure 1** and a summary of all drill hole radiometric screening results is provided in **Table 1**. Drill hole survey information is provided in **Table 2**.

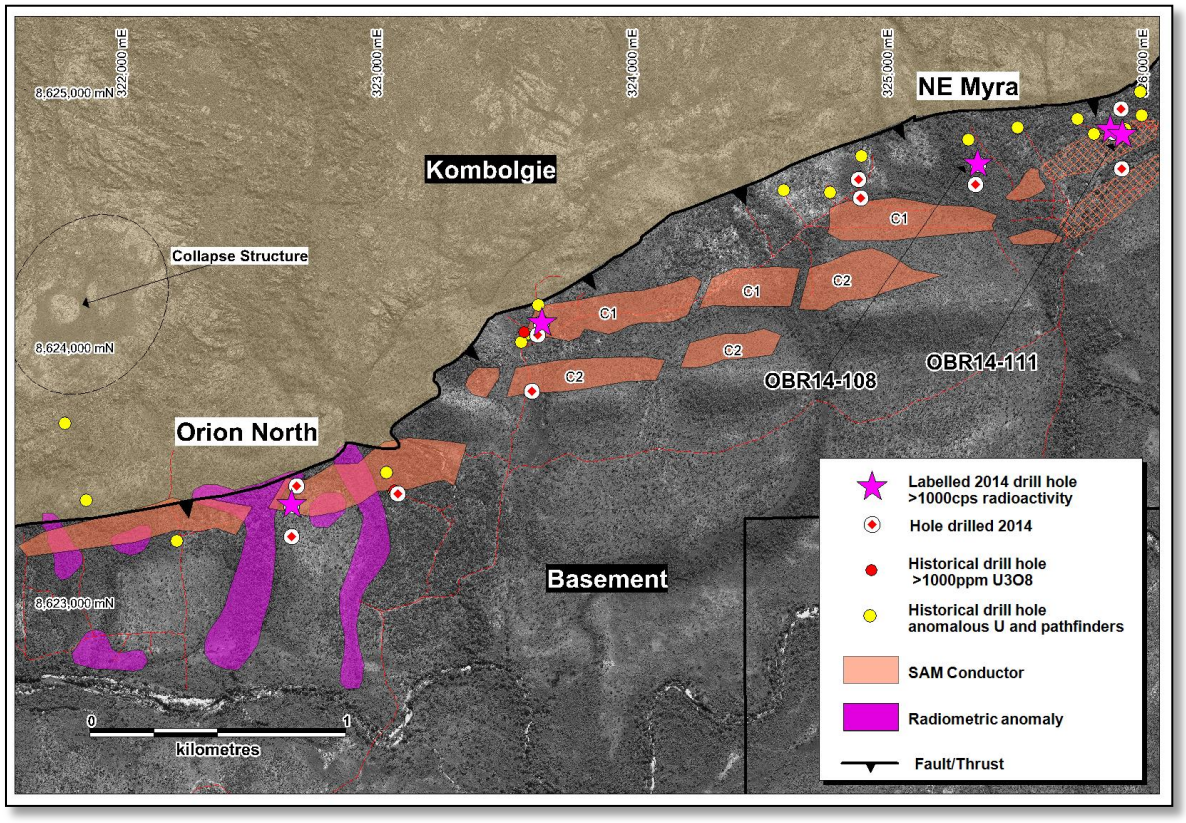


Figure 1: Location map showing completed drill holes with >1000cps measured radioactivity

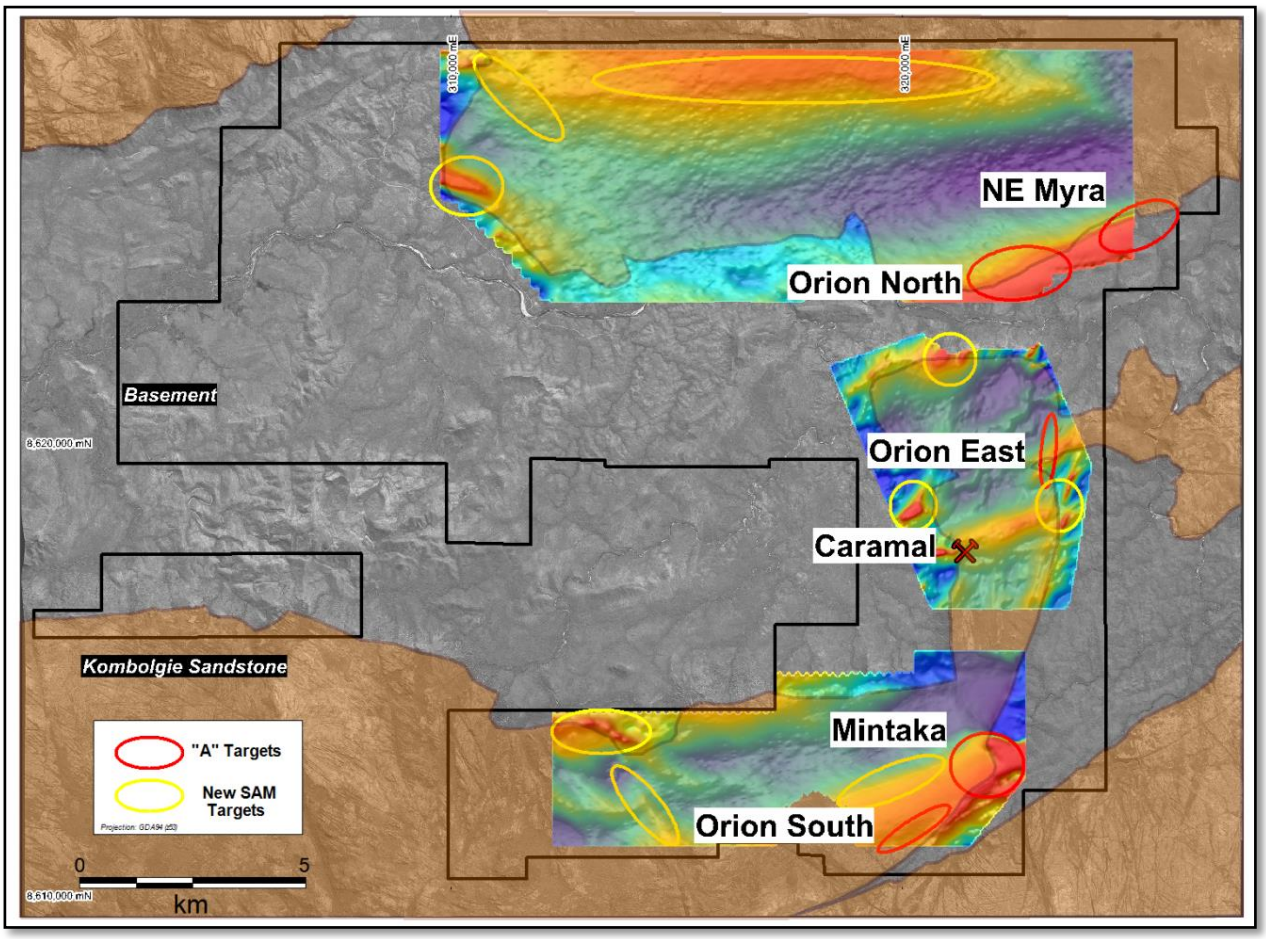


Figure 2: Tin Camp Creek Project - Prospect Location

Table 1: Field radiometric screening results

Drill Hole	Depth From (m)	Depth to (m)	CPS
OBR14-108	0	36	<300
	36	37	310
	37	40	<300
	40	41	380
	41	53	<300
	53	54	350
	54	61	<300
	61	62	380
	62	63	330
	63	77	<300
	77	78	340
	78	79	650
	79	80	800
	80	81	450
	81	82	325
	82	83	390
	83	84	480
	84	92	<300
	92	93	900
	93	94	5000
	94	95	3450
	95	96	400
	96	106	<300
	106	107	340
	107	108	500
	108	110	<300
	110	111	340
	111	112	330
	112	198 (EOH)	<300
OBR14-109	0	200 (EOH)	<300
OBR14-110	0	22	<300
	22	23	319
	23	51	<300
	51	52	450
	52	55	<300
	55	56	1670
	56	61 (EOH)	<300
OBR14-111	0	20	<300
	20	21	333
	21	22	627
	22	23	351
	23	36	<300
	36	37	380
	37	38	<300
	38	39	340

Drill Hole	Depth From (m)	Depth to (m)	CPS
OBR14-111(cont.)	39	40	449
	40	44	<300
	44	45	450
	45	46	830
	46	48	<300
	48	49	365
	49	50	<300
	50	51	313
	51	52	622
	52	53	534
	53	54	460
	54	55	508
	55	56	614
	56	57	510
	57	58	848
	58	59	842
	59	60	800
	60	61	1681
	61	62	7878
	62	63	5490
	63	64	1000
	64	65	338
	65	66	400
	66	67	449
	67	68	1200
	68	74	<300
	74	75	649
	75	84	<300
	84	85	429
	85	93	<300
	93	94	379
	94	96	<300
	96	97	306
	97	99	<300
	99	100	432
	100	101	470
	101	102	319
	102	103	327
	103	104	502
	104	105	<300
	105	106	300
	106	107	422
	107	108	354
	108	109	357
	109	110	310
	110	111	<300
	111	112	332

Drill Hole	Depth From (m)	Depth to (m)	CPS
OBR14-111(cont.)	112	113	441
	113	114	370
	114	115	324
	115	196 (EOH)	<300
OBR14-112	0	200 (EOH)	<300
OBR14-113	0	74	<300
	74	75	320
	75	76	420
	76	77	800
	77	138 (EOH)	<300
OBR14-114	0	117	<300
	117	118	440
	118	157	<300
	157	188	<300
	188	189	340
	189	195	<300
	195	196	900
	196	197	480
	197	200	<300
	200	201	360
	201	204 (EOH)	<300
OBR14-115	0	156 (EOH)	<300

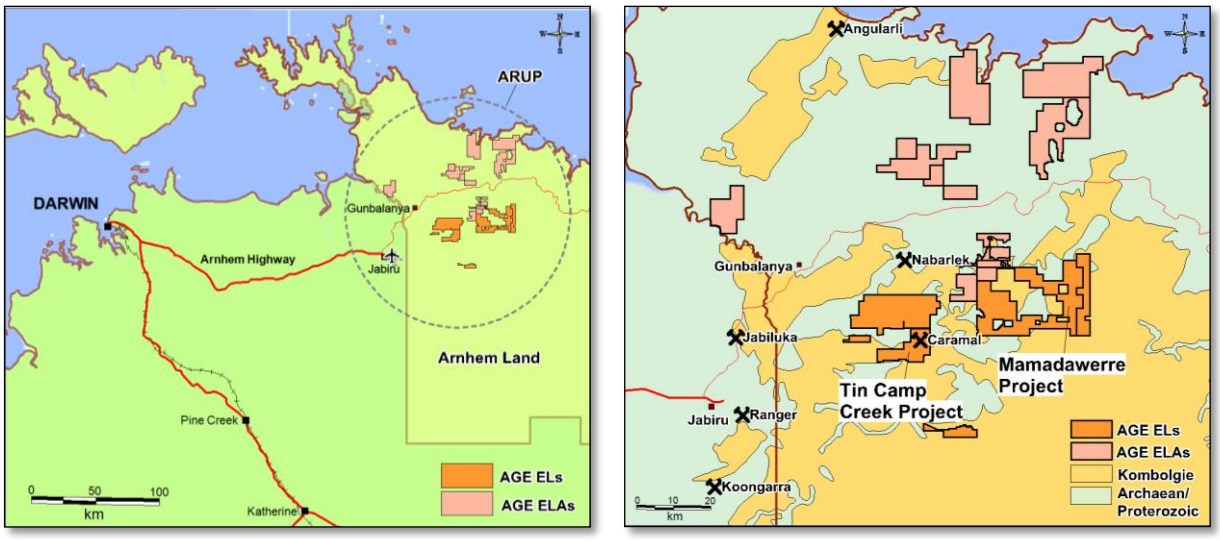
Table 2: Drill hole survey details

Hole ID	Prospect	MGA East (actual)	MGA North (actual)	Azim (Mag)	Dip	Depth (Final)
OBR14-108	North East Myra	325367	8624706	357	-75	198
OBR14-109	North East Myra	325354	8624628	357	-60	200
OBR14-110	North East Myra	325895	8624832	357	-60	61
OBR14-111	North East Myra	325926	8624827	357	-60	196
OBR14-112	North East Myra	325927	8624690	357	-70	200
OBR14-113	North East Myra	325924	8624924	n/a	-90	138
OBR14-114	North East Myra	324898	8624648	357	-75	204
OBR14-115	North East Myra	324906	8624574	357	-75	156

About Alligator Energy

Alligator Energy Ltd is an Australian, ASX listed, exploration company with uranium exploration tenements in the world class Alligator Rivers Uranium Province in Arnhem Land, Northern Territory. The Alligator Rivers Uranium Province hosts nearly 1 billion pounds of high grade uranium resources and past production, including the Ranger Mine and Jabiluka. The company's flagship project is the Tin Camp Creek Project. Since listing in February 2011, the company has completed in excess of 15,000m of drilling, defined a maiden high grade, JORC compliant resource at Caramal (6.5Mlb U3O8 at 3100ppm U3O8) and discovered new mineralization at Mintaka and Orion East. High Grade mineralization also occurs at the historic South Horn and Gorrunghar prospect which remain only partially tested.

The company has in excess of 1000km^2 of Exploration Licence applications and is also in Joint Venture with Cameco Australia Pty Ltd for the Mamadawerre Project, also within the Alligator Rivers Uranium Province



Project Location Diagrams

FOR FURTHER INFORMATION, PLEASE CONTACT

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Appendix 1- JORC Code, 2012 Edition

Tin Camp Creek Project – Drilling update - August 2014.

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	A total of 1,042 samples (1,042 **Reverse Circulation (RC)** Spear samples) of 1 metre interval drill samples were obtained during the reported phase of work. RC samples were collected in 1 metre intervals from bulk riffle split samples collected in plastic bags at the cyclone. A 3kg sample was subsequently obtained for assay from the riffle split sample by spear sampling. The samples obtained are considered to be representative of the intervals from which they were obtained and sampling and sub-sampling techniques were appropriate for the sample type and for exploration purposes A Radiation Solutions RS-125 spectrometer was used to measure radioactivity (in counts per second – cps) of each bulk 1m sample. Samples are selected for laboratory based geological observation and radioactivity (cps) relative to background.
Drilling techniques	• *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	Drilling was undertaken using Reverse Circulation drilling with face sampling bit. The distribution of drilling for these results was 1,042 metres RC .
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries*	The project geologist remains at the rig during RC drilling activities, with logging occurring as drilled. RC Samples

	and results assessed. • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.*	were collected from the cyclone via a riffle splitter and transferred directly to a plastic sample bag for each 1 metre interval. For exploration drilling sample recovery quality is monitored visually by the geologist by volume of returned sample. Sample recovery is maximised during RC drilling by use of face sampling hammers. Sample recoveries were considered to be excellent and no significant sample bias is considered to have occurred.
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	All chip samples are logged systematically recording lithology, alteration and mineralization. Drilling was undertaken for exploratory purposes; however logging has been undertaken to a level sufficient to support future Mineral Resource estimation, mining studies and metallurgical studies. Lithological logging is qualitative, geotechnical logging of drill core has been undertaken quantitatively All (100%) drill intervals have been logged.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	RC samples were collected in 1 metre intervals from riffle split drill cuttings collected at the cyclone. A 3kg sample was subsequently obtained for assay from the riffle split sample by spear sampling. The samples obtained are considered to be representative of the intervals from which they were obtained and sampling and sub-sampling techniques were appropriate for the sample type and for exploration purposes Field Blanks, duplicates and laboratory prepared standards are inserted into the sampling sequence. For exploration drilling, Blanks and standards are inserted whenever uranium mineralization is encountered as follows: Blank sample of unmineralised material (immediately following a mineralised sample) 1 in each hole intersecting a mineralized zone Mineralised duplicate in each drill hole intersection of a mineralized zone. Certified standard for each drill hole intersecting a mineralized zone. Sampling of barren material either side of mineralised zones. RC samples were submitted for analyses to Bureau Veritas' Laboratory in Darwin. Further sample preparation was undertaken by Bureau Veritas prior to assay. Drill samples were dried to a core temperature of approximately 100ºC. Dried samples are then coarse crushed using a Boyd crusher to a sizing of approximately 5mm. The total sample is then milled in an LM5 pulveriser to 85% passing

		75µm. An analytical pulp of 250 g is taken from the bulk and the residue retained. The pulp sample is then delivered to Bureau Veritas' laboratory in Adelaide. Sample sizes were considered appropriate for the type of material being sampled.
Quality of assay data and laboratory tests	• *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.* • *For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.* • *Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.*	A Radiation Solutions RS-125 spectrometer was used to measure radioactivity (in counts per second – cps) of each bulk 1m sample. Samples are selected for laboratory assay based geological observation and radioactivity (cps) relative to background. Geochemical assay of representative samples is being undertaken at Bureau Veritas' Adelaide laboratory. Uranium analysis was undertaken utilising ICP-MS using Lithium Borate fusion of the pulp sample. This technique is considered a total analysis method and appropriate for the style of mineralisation intersected. Field Standards, blanks and duplicates were included in the samples submitted to the laboratory; in addition Bureau Veritas also include quality control samples routinely to monitor the precision and accuracy of analysis. Acceptable levels of accuracy have been established.
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* • *Discuss any adjustment to assay data.*	Intersections reported for this phase of drilling have not been verified by an external party to date. No twinning of holes has been undertaken Logging, sampling and assay data is recorded and maintained digitally. Physical sample duplicates and core trays are maintained on site. No adjustment of assay data is undertaken
Location of data points	• *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	Current drill hole locations were surveyed using GPS with accuracies of between 1-4 metres All drill holes have been surveyed on Map Grid of Australia 94 (MGA94 Zone 53) A digital Terrain model (DTM) derived from previous airborne geophysical surveys is used for topographic control. Vertical resolution for the DTM is considered to be within 1 metre.
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *Whether the data spacing and*	Drilling during this phase of work has been broad spaced for exploratory purposes to test new structural targets and until significant mineralisation is identified is insufficient to

	distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. • *Whether sample compositing has been applied.*	define mineral resources. Sample compositing has not been applied.
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	Current drilling is of an exploratory nature. There is generally insufficient data in the areas drilled during this phase of work to determine the orientation of host structures. No known sampling bias is known to have been introduced by the drilling orientation.
Sample security	• *The measures taken to ensure sample security.*	Samples, each contained in zip tied, plastic sample bags were delivered by Alligator personnel in sealed 200 litre drums directly to the Bureau Veritas Laboratory in Darwin with Chain of Custody documentation
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	No audits have been undertaken for this phase of drilling

Section 2 Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* • *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	All drilling reported in this ASX release was undertaken on the Tin Camp Creek Project which is comprised of contiguous exploration licences EL24921 and EL24922 in the Northern Territory. The tenement is held by TCC Project Pty Ltd (98%), a wholly owned subsidiary of Alligator Energy Ltd (Alligator) and by West Arnhem Corporation Pty Ltd (2%). The tenements were recently renewed by the Northern Territory Department of Mines and Energy for a further 2 year period (until May 2015 whereby AGE may apply for additional 2 year renewal periods) and are in good standing. Exploration and Mining agreements with the Northern Land Council (**NLC**) on behalf of traditional owners are in place for these tenements in accordance with the Aboriginal Land Rights Act (1976). The Tin Camp Creek Project is also subject to a uranium buy back agreement with Cameco Australia Pty Ltd whereby Cameco may buy 51% of a defined resource greater than 20,000t contained U3O8. There are no known existing impediments to operating on

		any tenement within the Tin Camp Creek Project area.
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	Regional exploration has previously been undertaken by other parties in the region by Queensland Mines Ltd (1970-1972), Afmeco (1996-2001) and Cameco Australia Pty Ltd (2001-2010).
Geology	• *Deposit type, geological setting and style of mineralisation.*	Alligator is exploring for Unconformity Associated Style Uranium Deposits. The geology of the area being targeted is comprised primarily of Carpentarian aged sandstones of the Kombolgie Formation overlying multiply deformed meta-sediments of the lower-Proterozoic Cahill Fm and Archaean granite Gneiss Complexes.
Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:* ○ *easting and northing of the drill hole collar* ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar* ○ *dip and azimuth of the hole* ○ *down hole length and interception depth* ○ *hole length.* • *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*	Drill hole survey information is provided in the Table 3 of the ASX release Collar positions were located by GPS with accuracies of 1-4metres. This accuracy is considered sufficient for exploration purposes and for the style of mineralisation targeted.
Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* • *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* • *The assumptions used for any*	Radioactivity intercepts in cps as reported in Table 1 and 2 of ASX release were aggregated as follows: Where radioactivity exceed 300cps cut-off samples are reported individually. Where radioactivity <300cps intervals are grouped but not averaged.

	reporting of metal equivalent values should be clearly stated.	
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').*	The relationship between intercept lengths and mineralisation widths is uncertain for results reported in this release as the drilling is targeting new areas and the structural relationships of mineralisation have been shown to be complex in the broader region. Consequently, results are reported as drilled intercept lengths.
Diagrams	• *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	Refer Figures 1 and Tables 1, 2 and 3 of ASX release.
Balanced reporting	• *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	All results of significance have been reported within this report. It is important to note that the field screening results reported are provided as a guide only and are subject to sample variability and the sensitivity of the instrument.
Other substantive exploration data	• *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	No significant exploration data has been omitted
Further work	• *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	A number of targets have been identified on the Tin Camp Creek Project area. The drilling reported on in this release is the first part of what Alligator intends to be a systematic test of these targets. Further advice on this ongoing work will be provided following further assessment and ranking of these targets in the coming months.

Competent Persons Statement

Information in this report is based on current and historic Exploration Results compiled by Mr Rob Sowerby who is a Member of the Australasian Institute of Geoscientists. Mr Sowerby is CEO and Director of Alligator Energy Ltd, and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Sowerby consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.