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Published on: 20 January 2017

Statement No: 1053

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED
(Environmental Protection Act 1986)

YEELIRRIE URANIUM PROJECT

Proposal: The proposal is to mine uranium ore from the Yeelirrie deposit, approximately 70 km south west of Wiluna, and the construction of associated mine infrastructure, including ore processing facilities, water abstraction and reinjection infrastructure, roads, accommodation, offices and workshops, stockpile and laydown areas and evaporation pond. Tailings will be discharged back into the mine open pit. The uranium will transported to a port permitted for uranium export outside of Western Australia.

Proponent: Cameco Australia Pty Ltd
Australian Company Number 001513088

Proponent Address: 24 Hasler Road, Osborne Park WA 6017

Assessment Number: 2032

Report of the Environmental Protection Authority: 1574

Pursuant to section 45 of the EP Act it has been agreed that the proposal described and documented in Table 2 of Schedule 1 may be implemented and that the implementation of the proposal is subject to the following implementation conditions and procedures:

1 Proposal Implementation

1-1 When implementing the proposal, the proponent shall not exceed the authorised extent of the proposal as defined in Table 2 in Schedule 1, unless amendments to the proposal and the authorised extent of the proposal have been approved under the EP Act.

2 Contact Details

- 2-1 The proponent shall notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.

3 Time Limit for Proposal Implementation

- 3-1 The proponent shall not commence implementation of the proposal after five (5) years from the date on this Statement, and any commencement, prior to this date, must be substantial.
- 3-2 Any commencement of implementation of the proposal, on or before five (5) years from the date of this Statement, must be demonstrated as substantial by providing the CEO with written evidence, on or before the expiration of five (5) years from the date of this Statement.

4 Compliance Reporting

- 4-1 The proponent shall prepare, submit and maintain a Compliance Assessment Plan to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition 4-6, or prior to implementation, whichever is sooner.
- 4-2 The Compliance Assessment Plan shall indicate:
- (1) the frequency of compliance reporting;
 - (2) the approach and timing of compliance assessments;
 - (3) the retention of compliance assessments;
 - (4) the method of reporting of potential non-compliances and corrective actions taken;
 - (5) the table of contents of Compliance Assessment Reports; and
 - (6) public availability of Compliance Assessment Reports.
- 4-3 After receiving notice in writing from the CEO that the Compliance Assessment Plan satisfies the requirements of condition 4-2 the proponent shall assess compliance with conditions in accordance with the Compliance Assessment Plan required by condition 4-1.

- 4-4 The proponent shall retain reports of all compliance assessments described in the Compliance Assessment Plan required by condition 4-1 and shall make those reports available when requested by the CEO.
- 4-5 The proponent shall advise the CEO of any potential non-compliance within seven (7) days of that non-compliance being known.
- 4-6 The proponent shall submit to the CEO the first Compliance Assessment Report fifteen (15) months from the date of issue of this Statement addressing the twelve (12) month period from the date of issue of this Statement and then annually from the date of submission of the first Compliance Assessment Report, or as otherwise agreed in writing by the CEO.

The Compliance Assessment Report shall:

- (1) be endorsed by the proponent's Chief Executive Officer or a person delegated to sign on the Chief Executive Officer's behalf;
- (2) include a statement as to whether the proponent has complied with the conditions;
- (3) identify all potential non-compliances and describe corrective and preventative actions taken;
- (4) be made publicly available in accordance with the approved Compliance Assessment Plan; and
- (5) indicate any proposed changes to the Compliance Assessment Plan required by condition 4-1.

5 Public Availability of Data, Plans and Reports

5-1 Subject to condition 5-2, within a reasonable time period approved by the CEO of the issue of this Statement and for the remainder of the life of the proposal the proponent shall make publicly available, in a manner approved by the CEO, all validated environmental data (including sampling design, sampling methodologies, empirical data and derived information products (e.g. maps)), environment plans and reports relevant to the assessment of this proposal and implementation of this Statement.

5-2 If any data referred to in condition 5-1 contains particulars of:

- (1) a secret formula or process; or
- (2) confidential commercially sensitive information;

the proponent may submit a request for approval from the CEO to not make these data publicly available. In making such a request the proponent shall

provide the CEO with an explanation and reasons why the data should not be made publicly available.

6 Management-based Condition Environmental Management Plans

6-1 The proponent shall prepare and submit Condition Environmental Management Plans:

- (1) prior to the commencement of ground disturbing activities or as otherwise agreed in writing by the CEO, to demonstrate that the environmental objectives in conditions 8-1, 9-1, 10-1, 12-1, 13-1 and 14-1 will be met.

6-2 The Condition Environmental Management Plan(s) shall:

- (1) specify the environmental objectives to be achieved, as specified in conditions 8-1, 9-1, 10-1, 12-2, 13-1 and 14-1;
- (2) specify risk-based management actions that will be implemented to demonstrate compliance with the environmental objectives specified in 8-1, 9-1, 10-1, 12-2, 13-1 and 14-1. Failure to implement one or more of the management actions represents non-compliance with these conditions;
- (3) specify measurable management target(s) to determine the effectiveness of the risk-based management actions;
- (4) specify monitoring to measure the effectiveness of management actions against management targets, including but not limited to, parameters to be measured, baseline data, monitoring locations, and frequency and timing of monitoring;
- (5) specify a process for revision of management actions and changes to proposal activities, in the event that the management targets are not achieved. The process shall include an investigation to determine the cause of the management target(s) being exceeded;
- (6) provide the format and timing to demonstrate that 8-1, 9-1, 10-1, 12-1, 13-1 and 14-1 have been met for the reporting period in the Compliance Assessment Report required by condition 4-6 including, but not limited to:
 - (a) verification of the implementation of management actions; and
 - (b) reporting on the effectiveness of management actions against management target(s).

- 6-3 After receiving notice in writing from the CEO that the Condition Environmental Management Plan(s) satisfies the requirements of condition 6-2 for conditions 8-1, 9-1, 10-1, 12-1, 13-1 and 14-1, the proponent shall:
- (1) implement the provisions of the Condition Environmental Management Plan(s); and
 - (2) continue to implement the Condition Environmental Management Plan(s) until the CEO has confirmed by notice in writing that the proponent has demonstrated the objectives specified in conditions 8-1, 9-1, 10-1, 12-2, 13-1 and 14-1 have been met.
- 6-4 In the event that monitoring, tests, surveys or investigations indicate exceedance of management target(s) specified in the Condition Environmental Management Plan(s), the proponent shall:
- (1) report the exceedance in writing to the CEO within 21 days of the exceedance being identified;
 - (2) investigate to determine the cause of the management targets being exceeded;
 - (3) provide a report to the CEO within 90 days of the exceedance being reported as required by condition 6-4(1). The report shall include:
 - (a) cause of management targets being exceeded;
 - (b) the findings of the investigation required by conditions 6-4(2);
 - (c) details of revised and/or additional management actions to be implemented to prevent exceedance of the management target(s); and
 - (d) relevant changes to proposal activities.
- 6-5 In the event that monitoring, tests, surveys or investigations indicate that one or more management actions specified in the Condition Environmental Management Plan(s) have not been implemented, the proponent shall:
- (1) report the failure to implement management action/s in writing to the CEO within 7 days of identification;
 - (2) investigate to determine the cause of the management action(s) not being implemented;
 - (3) investigate to provide information for the CEO to determine potential environmental harm or alteration of the environment that occurred due to the failure to implement management actions;

- (4) provide a report to the CEO within 21 days of the reporting required by condition 6-5(1). The report shall include:
 - (a) cause for failure to implement management actions;
 - (b) the findings of the investigation required by conditions 6-5(2) and 6-5(3);
 - (c) relevant changes to proposal activities; and
 - (d) measures to prevent, control or abate the environmental harm which may have occurred.

6-6 The proponent:

- (1) may review and revise the Condition Environmental Management Plan(s), or
- (2) shall review and revise the Condition Environmental Management Plan(s) as and when directed by the CEO.

6-7 The proponent shall implement the latest revision of the Condition Environmental Management Plan(s), which the CEO has confirmed by notice in writing, satisfies the requirements of condition 6-2.

7 Subterranean fauna

7-1 Prior to the commencement of ground disturbance activities or otherwise agreed in writing by the CEO, the proponent shall prepare and submit a Subterranean Fauna Survey Plan to meet the following objective:

- (1) improve the knowledge of subterranean fauna species and habitat on a local scale.

7-2 The Subterranean Fauna Survey Plan required by condition 7-1 shall:

- (1) detail a targeted sampling plan and habitat investigation program focusing on the subterranean fauna species which have been identified through baseline surveys to have potentially restricted distributions;
- (2) identify and spatially define the proposed survey locations and provide rationale for the location of the sites;
- (3) detail the proposed frequency and timing of the surveys; and
- (4) provide the format and timing for the reporting of survey results to the CEO.

7-3 After receiving notice in writing from the CEO that the Subterranean Fauna Survey Plan satisfies the requirements of condition 7-2, the proponent shall,

prior to the commencement of ground disturbance activities or otherwise agreed in writing by the CEO, implement the Subterranean Fauna Survey Plan.

7-4 The proponent:

- (1) may review and revise the Subterranean Fauna Survey Plan, or
- (2) shall review and revise the Subterranean Fauna Survey Plan as and when directed by the CEO.

7-5 The proponent shall continue to implement the version of the Subterranean Fauna Survey Plan most recently approved by the CEO until the CEO has confirmed by notice in writing that the proponent is no longer required to implement the Subterranean Fauna Survey Plan.

8 Threatened flora (*Atriplex yeelirrie*)

8-1 The proponent shall manage the implementation of the proposal to meet the following environmental objective:

- (1) Maintain the Eastern population of the threatened flora species *Atriplex yeelirrie*.

8-2 The proponent shall consult with Parks and Wildlife in the preparation of an *Atriplex Yeelirrie* Conservation Plan required by condition 6-1 that satisfies the requirements of condition 6-2, to meet the objective required by condition 8-1.

8-3 The *Atriplex Yeelirrie* Conservation Plan required by condition 6-1 shall include provisions required by condition 6-2 to address impacts on *Atriplex yeelirrie* including from, but not limited to: direct clearing; changes to groundwater levels and groundwater quality; changes to surface flows; salinity; dust; cattle and weeds.

8-4 The proponent shall continue to implement the version of the *Atriplex Yeelirrie* Conservation Plan most recently approved by the CEO, on advice of Parks and Wildlife, until the CEO has confirmed by notice in writing that the plan required by condition 6-1 satisfies the requirements of condition 6-2 to meet the objective required by condition 8-1.

9 Flora and Vegetation

9-1 The proponent shall manage the implementation of the proposal to meet the following environmental objectives:

- (1) avoid, where possible, and minimise direct and indirect impacts as far as practicable on conservation significant Priority 1 flora species *Neurachne lanigera*, and *Rhagodia* sp. Yeelirrie Station.

- (2) minimise direct and indirect impacts as far as practicable on conservation significant flora species, including, but not limited to, Priority 3 species *Bossiaea eremaea*, *Eremophila arachnoides* subsp. *arachnoides*, and *Euryomyrtus inflata*; and
 - (3) minimise direct and indirect impacts as far as practicable on the vegetation units including *Eucalyptus gypsophila* Woodland on Calcrete; *Casuarina pauper* Woodland on Calcrete; *Melaleuca xerophila* Shrubland on Calcrete; *Atriplex* sp. Yeelirrie Station Shrubland on Calcrete; *Rhagodia* sp. Yeelirrie Station Shrubland on Calcrete; Mulga *Grevillia berryana* Shrubland; and *Lycium australe* Shrubland, *Eragrostis* sp. Grassland on Playa.
- 9-2 The proponent shall consult with Parks and Wildlife and prepare a Flora and Vegetation Management Plan required by condition 6-1 that satisfies the requirements of condition 6-2, to meet the objectives required by condition 9-1.
- 9-3 The Flora and Vegetation Management Plan required by condition 6-1 shall include provisions required by condition 6-2 to address impacts on conservation significant flora and vegetation health including from, but not limited to: changes to groundwater levels and groundwater quality; changes to surface flows; dust; fire regimes and weeds.
- 9-4 The proponent shall continue to implement the version of the Flora and Vegetation Management Plan most recently approved by the CEO, on advice from Parks and Wildlife, until the CEO has confirmed by notice in writing that the Flora and Vegetation Management Plan required by condition 6-1 satisfies the requirements of condition 6-2 to meet the objectives required by condition 9-1.

10 Terrestrial Fauna

- 10-1 The proponent shall manage the implementation of the proposal to meet the following environmental objectives:
- (1) avoid, where possible, and minimise direct and indirect impacts as far as practicable on conservation significant terrestrial fauna species and their habitat, including, but not limited to, the Malleefowl, Black-flanked Rock-Wallaby, Peregrine Falcon, Brush-tailed Mulgara, and the Australian Bustard; and
 - (2) avoid, where possible, and minimise direct and indirect impacts as far as practicable to conservation significant short-range endemic fauna, including but not limited to, the Shield-backed trapdoor spider (*Idiosoma nigrum*).

- 10-2 The proponent shall consult with Parks and Wildlife and prepare a Terrestrial Fauna Management Plan required by condition 6-1 that satisfies the requirements of condition 6-2, to meet the objectives of condition 10-1.
- 10-3 The Terrestrial Fauna Management Plan required by condition 6-1 shall include provisions required by condition 6-2 to manage impacts on conservation significant fauna listed in 10-1 including from, but not limited to, loss of habitat, changes to surface water regimes, changes to fire regimes and risk of vehicle strikes.
- 10-4 The proponent shall continue to implement the version of the Terrestrial Fauna Management Plan most recently approved by the CEO until the CEO has confirmed by notice in writing that the plan required by condition 6-1 satisfies the requirements of condition 6-2 to meet the objectives required by condition 10-1.

11 Hydrological processes - Survey

- 11-1 Prior to the commencement of ground disturbing activities or as otherwise agreed in writing by the CEO the proponent shall prepare a Baseline Survey Plan to monitor the changes to groundwater levels from the implementation of the proposal which:
- (1) details the proposed methodology for the baseline surveys;
 - (2) identifies the sensitive receptors, with a particular focus on surrounding water bores including No-Ibla and Dempsey bores shown in Figure 2;
 - (3) identifies and spatially defines the proposed survey locations and monitoring/reference/control sites, and provide rationale for the location of the sites; and
 - (4) details the proposed frequency and timing of the surveys.
- 11-2 The proponent shall commission a suitably qualified independent expert with relevant hydrogeology experience in excess of 10 years and agreed to in writing by the CEO to review and report on:
- (1) the groundwater monitoring program described in the Baseline Survey Plan prior to its implementation.
- 11-3 The proponent shall amend the Baseline Survey Plan required by condition 11-1 in accordance with the recommendations of the independent expert review report required by 11-2.
- 11-4 The proponent shall submit the amended Baseline Survey Plan and the results and recommendations of the independent expert review required by

condition 11-3 to the CEO within three (3) months of the proponent receiving the recommendations from the independent expert review.

- 11-5 After receiving notice in writing from the CEO that the Baseline Survey Plan satisfies the requirements of condition 11-4, the proponent shall, prior to the commencement of ground disturbing activities, undertake the baseline surveys in accordance with the requirements of the Baseline Survey Plan.
- 11-6 On completion of the baseline surveys the proponent shall, prior to the commencement of ground disturbing activities, report to the CEO on the following:
- (1) completion of the baseline surveys in accordance with the Baseline Survey Plan;
 - (2) the results of the baseline surveys; and
 - (3) a review of the results of the baseline surveys from a suitably qualified independent expert with relevant hydrogeology experience in excess of 10 years and agreed to in writing by the CEO to review and report on, with particular focus on surrounding water bores, in particular No-Ibla and Dempsey bores.
- 11-7 The Baseline Survey Plan and results required by conditions 11-4 and 11-6, and the independent expert review report required by condition 11-2 shall be made publicly available and provided directly to surrounding properties within three (3) months of completion.

12 Hydrological Processes - Management

- 12-1 The proponent shall manage the implementation of the proposal to meet the following environmental outcome:
- (1) ensure groundwater dewatering and abstraction do not impact on surrounding water bores including No-Ibla and Dempsey bores, shown in Figure 2, having regard to climatic trends and seasonal variation.
- 12-2 The proponent shall manage the implementation of the proposal to meet the following environmental objective:
- (1) minimise direct and indirect impacts as far as practicable to the hydrological regimes of surface waters and groundwater.
- 12-3 The proponent shall consult with the Department of Water and the Department of Parks and Wildlife, and prepare a Hydrological Processes Monitoring and Management Plan required by condition 6-1 that satisfies the requirements of condition 6-2, to meet the outcome and objective required by conditions 12-1 and 12-2.

12-4 The Hydrological Processes Monitoring and Management Plan required by condition 12-3 shall have provisions to include:

- (1) provisions required by condition 6-2;
- (2) the results of the baseline monitoring required by condition 11-6;
- (3) monitoring of groundwater abstracting rates and groundwater levels;
- (4) trigger criteria, threshold criteria, monitoring, trigger level actions and threshold contingency actions to demonstrate the outcome required by condition 12-1 is being met;
- (5) measures to avoid impacts on subterranean fauna species *Atopobathynella* sp. 'line K', *Enchytraeidae* sp. Y4 and *Kinnecaris* 'lined' sp. n.
- (6) the results shall be reviewed every 3 years or as otherwise agreed to by the CEO; and
- (7) an independent review of the Hydrological Processes Monitoring and Management Plan and monitoring results from a suitably qualified expert with relevant hydrogeology experience in excess of 10 years and agreed to in writing by the CEO.

12-5 The proponent shall continue to implement the version of the Hydrological Processes Monitoring and Management Plan most recently approved by the CEO until the CEO has confirmed by notice in writing that the plan required by condition 6-1 satisfies the requirements of condition 6-2 to meet the outcome and objective required by conditions 12-1 and 12-2.

12-6 The Hydrological Processes Monitoring and Management Plan and the monitoring results required by condition 12-3, and the independent expert review report required by condition 12-4(7) shall be made publicly available within three (3) months of completion.

13 Inland waters environmental quality

13-1 The proponent shall manage the abstraction of groundwater for dewatering and the reinjection of surplus dewater to meet the following environmental objectives:

- (1) minimise water quality impacts as far as practicable to surface waters and groundwater; and
- (2) prevent the abstraction of groundwater down flow from the TSFs within the boundaries of Yeelirrie Station for stock use.

- 13-2 The proponent shall prepare and submit a:
- (1) Surface Water Management and Monitoring Plan; and
 - (2) Groundwater Management and Monitoring Plan,
- required by condition 6-1 that satisfies the requirements of condition 6-2, to meet the objectives required by condition 13-1.
- 13-3 The Surface Water Management and Monitoring Plan required by condition 13-2(1) shall include not limited to, provisions to address the following:
- (1) the construction of a surface water diversion bund and associated channel with the specifications to protect the mine site from a 1,000 year ARI rainfall event.
- 13-4 The Groundwater Management and Monitoring Plan required by condition 13-2(2) shall include provisions to address the following:
- (1) outline a program of work on uranium transport in groundwater from tailings to increase the confidence in predictions of uranium transport at Yeelirrie, including the study of measured infiltration rates into realistic analogues of the planned TSF cover system.
- 13-5 The proponent shall continue to implement the version of the Surface Water Management and Monitoring Plan most recently approved by the CEO and the Groundwater Management and Monitoring Plan most recently approved by the CEO, on advice of the Department of Environment Regulation, until the CEO has confirmed by notice in writing that the plans required by condition 6-1 satisfies the requirements of condition 6-2 to meet the objectives required by condition 13-1.

14 Heritage

- 14-1 The proponent shall manage the implementation of the proposal to meet the following environmental objective:
- (1) minimise impacts as far as practicable to registered sites Yeelirrie 03 and Yeelirrie 38, unregistered sites Yeelirrie_61 and Yeelirrie_198, and culturally modified Kopi Gum trees (*Eucalyptus gypsophila*).
- 14-2 The proponent shall consult with the Department of Aboriginal Affairs and prepare an Aboriginal Heritage Management Plan required by condition 6-1 that satisfies the requirements of condition 6-2 to meet the objective of condition 14-1.
- 14-3 The proponent shall continue to implement the version of the Aboriginal Heritage Management Plan most recently approved by the CEO until the CEO has confirmed by notice in writing that the plan required by condition 6-1

satisfies the requirements of condition 6-2 to meet the objective required by condition 14-1.

15 Rehabilitation and Decommissioning

15-1 The proponent shall manage the implementation of the proposal to meet the following environmental objectives:

- (1) ensure that the proposal is decommissioned and rehabilitated in an ecologically sustainable manner;
- (2) ensure that seepage of COC's from the TSF is minimised as far as practicable;
- (3) ensure that the erosion of the TSF cover is minimised as far as practicable.

15-2 Prior to the commencement of ground disturbing activities or as otherwise agreed in writing from the CEO, the proponent shall prepare and submit a Mine Closure Plan in accordance with the *Guidelines for Preparing Mine Closure Plans*, May 2015 (or any subsequent revisions of the guidelines), to the requirements of the CEO on advice of the Department of Mines and Petroleum.

15-3 The plan required by condition 15-2 shall include provisions to address the following:

- (1) specify the environmental objectives to be achieved, as specified in conditions 15-1;
- (2) specify the management actions that will be implemented to demonstrate compliance with the environmental objectives required by condition 15-1. Failure to implement one or more of these management actions represents non-compliance with these conditions;
- (3) the provisions required by condition 6-2(3) to 6-2(5);
- (4) conduct laboratory and field scale research on the rate at which revegetation cover can be established, the effect of vegetation cover on the erosion rate and the need for alternative surface treatments to prevent erosion on the cover system to inform condition 15-3(5);
- (5) update the Landform Evolution Modelling using digital elevation modelling data suited to the extent of the modelled area and consistent with best practice;
- (6) on-ground data collection to calibrate erosion models;

- (7) demonstrate the validity of assumptions used in the Mine Closure Plan and consideration of the effects of breakdown of those assumptions; and
 - (8) predict the timeframe for and situation that would result if;
 - (a) the cover material is eroded away; and
 - (b) sorption processes come into equilibrium.
- 15-4 After receiving notice in writing from the CEO, on advice from the Department of Mines and Petroleum, that the Mine Closure Plan satisfies the requirements of condition 15-3, the proponent shall:
- (1) implement the provisions of the Mine Closure Plan; and
 - (2) continue to implement the Mine Closure Plan until the CEO has confirmed by notice in writing that the proponent has demonstrated the objectives specified in conditions 15-1 have been met.
- 15-5 In the event that monitoring, tests, surveys or investigations indicate exceedance of management targets specified in the Mine Closure Plan the proponent shall:
- (1) report the exceedance in writing to the CEO within 21 days of the exceedance being identified;
 - (2) investigate to determine the cause of the management targets being exceeded;
 - (3) provide a report to the CEO within 90 days of the exceedance being reported as required by condition 15-5(1). The report shall include:
 - (a) cause of management targets being exceeded;
 - (b) the findings of the investigation required by conditions 15-5(2);
 - (c) details of revised and/or additional management actions to be implemented to prevent exceedance of the management target(s); and
 - (d) relevant changes to proposal activities.
- 15-6 In the event that monitoring, tests, surveys or investigations indicate that one or more management actions specified in the Mine Closure Plan have not been implemented, the proponent shall:
- (1) report the failure to implement management action/s in writing to the CEO within 7 days of identification;

- (2) investigate to determine the cause of the management action(s) not being implemented;
- (3) investigate to provide information for the CEO to determine potential environmental harm or alteration of the environment that occurred due to the failure to implement management actions;
- (4) provide a report to the CEO within 21 days of the reporting required by condition 15-6(1). The report shall include:
 - (a) cause for failure to implement management actions;
 - (b) the findings of the investigation required by conditions 15-6(2) and 15-6(3);
 - (c) relevant changes to proposal activities; and
 - (d) measures to prevent, control or abate the environmental harm which may have occurred.

15-7 The proponent may review and revise the Mine Closure Plan.

15-8 The proponent shall review and revise the Mine Closure Plan required by condition 15-2 at intervals not exceeding three (3) years, or as otherwise specified by the CEO, and submit the plan to the CEO at the agreed interval.

15-9 The proponent shall implement the latest revision of the Mine Closure Plan, which the CEO has confirmed by notice in writing, satisfies the requirements of condition 15-2, to meet the objectives of condition 15-1.

15-10 The proponent shall make the latest revision of the Mine Closure Plan publicly available.

16 Subterranean Fauna Research Plan

16-1 Prior to the commencement of ground disturbing activities or otherwise agreed to by the CEO, the proponent shall prepare and submit a Subterranean Fauna Research Plan to the CEO, on advice of the Parks and Wildlife and the Western Australian Museum. The Subterranean Fauna Research Plan is to further define the values of the subterranean fauna and to understand the key variables required to support subterranean fauna habitat and shall address the following:

- (1) improving the knowledge of subterranean fauna taxonomy, distribution and habitat requirements.
- (2) developing a better understanding of the impact on subterranean fauna from mining operations.

- (3) identifying the key variables which support the ecological function of subterranean fauna habitat.
- 16-2 The Subterranean Fauna Research Plan shall specifically:
- (1) identify research objectives and completion criteria;
 - (2) describe the methodology to define the values of the Yeelirrie subterranean fauna PEC (Figure 3);
 - (3) identify the key variables required to support the ecological functions of the Yeelirrie subterranean fauna PEC (Figure 3), including but not limited to the use of field investigations;
 - (4) identify milestones including timeframes and responsibilities for implementation; and
 - (5) identify reporting procedures, including the content, format, timing and frequency for the reporting of monitoring data against the milestones.
- 16-3 After receiving notice in writing from the CEO, on advice of Parks and Wildlife and the Western Australian Museum, that the Subterranean Fauna Research Plan satisfies the requirements of condition 16-1 and 16-2, the proponent shall, prior to the commencement of ground disturbing activities, implement the Subterranean Fauna Research Plan.
- 16-4 Within fifteen (15) months of receiving the notice under condition 16-3, the proponent shall include in each Compliance Assessment Report required by condition 4-6, a written report which outlines the success of implementation of the Subterranean Fauna Research Plan, including monitoring data and the progress of this project until completion criteria have been met. This report should also be provided to Parks and Wildlife and the Western Australian Museum.
- 16-5 The proponent:
- (1) may review the Subterranean Fauna Research Plan, or
 - (2) shall review the Subterranean Fauna Research Plan as and when directed by the CEO.
- 16-6 The proponent shall implement the latest version of the Subterranean Fauna Research Plan, which the CEO has confirmed by notice in writing, satisfies the requirements of condition 16-1 and 16-2.

17 Residual Impact on Rare Flora (*Atriplex yeelirrie*)

- 17-1 The proponent shall undertake an offset with the objective to counterbalance the significant residual impact on 84,510 plants of the western population of the *Atriplex yeelirrie*, as a result of the implementation of the proposal.
- 17-2 Prior to ground disturbing activities or otherwise agreed to by the CEO, the proponent shall prepare and submit an *Atriplex yeelirrie* Offset Plan to the CEO on advice of Parks and Wildlife.

The objective of the *Atriplex yeelirrie* Offset Plan is to ensure the survival of a self-sustaining population of mature individuals of the western population of the *Atriplex yeelirrie*.

The *Atriplex yeelirrie* Offset Plan shall:

- (1) identify the ecology, ecophysiology and habitat requirements and determinants of the western population;
- (2) identify the number of mature plants that each translocation site should support;
- (3) identify the appropriate sex ratio distribution;
- (4) describe the plant material to be used for translocation, to promote the viability of the species;
- (5) identify suitable translocation sites similar to those within the western population of the Yeelirrie palaeochannel through investigations such as but not limited to impacts to the receiving environment, soil investigations, drainage, land tenure and potential long-term protection of the site;
- (6) undertake a trial translocation program, testing surface and sub-surface soils through relocation and potential seeding techniques;
- (7) confirm that irrigation would be feasible for the first two (2) years at each translocation site;
- (8) describe the ongoing protection measures afforded to the translocated plants from threats including fire and future exploration and mining;
- (9) identify completion criteria to demonstrate that the translocated plants have established, are reproducing and have built-up a soil-stored seedbank;
- (10) identify timeframes and responsibilities for implementation;

- (11) identify reporting procedures, including the format, timing and frequency for the reporting of monitoring data against the completion criteria;
 - (12) implement translocation at tested and approved sites;
 - (13) implement site re-creation at two sites within the Yeelirrie mine area; and
 - (14) identify arrangements for the translocation sites post-completion of the plan.
- 17-3 After receiving notice in writing from the CEO, on advice of Parks and Wildlife, that the *Atriplex yeelirrie* Offset Plan satisfies the requirements of condition 17-2, the proponent shall, prior to the commencement of ground disturbing activities:
- (1) implement the Plan in accordance with the requirements of the *Atriplex yeelirrie* Offset Plan; and
 - (2) continue to implement the Plan in accordance with the requirements of the *Atriplex yeelirrie* Offset Plan until the CEO has confirmed by notice in writing that it has been demonstrated that the objective in condition 17-2 has been met.
- 17-4 Within fifteen (15) months of receiving the notice under condition 17-3, the proponent shall include in each Compliance Assessment Report required by condition 4-6, a written report which outlines the success of implementation of the *Atriplex yeelirrie* Offset Plan, including monitoring data and the progress of this project until completion criteria have been met. This report should also be provided to Parks and Wildlife.
- 17-5 Should the objective of the *Atriplex yeelirrie* Offset Plan required by conditions 17-1 and 17-2 not be achieved within twenty (20) years from implementation of the Plan, the proponent shall submit a revised *Atriplex yeelirrie* Offset Plan to the satisfaction of the CEO, on the advice of the Department of Parks and Wildlife, outlining management strategies to achieve the outcome specified in condition 17-2. The revised plan must be submitted within three (3) months of the twenty (20) year period lapsing
- 17-6 The proponent:
- (1) May review the *Atriplex yeelirrie* Offset Plan, or
 - (2) Shall review the *Atriplex yeelirrie* Offset Plan as and when directed by the CEO.

17-7 The proponent shall implement the latest version of the *Atriplex yeelirrie* Offset Plan, which the CEO, on the advice of the Department of Parks and Wildlife, has confirmed by notice in writing satisfies the requirements of condition 17-2.

[Signed 16 January 2017]

Albert Jacob MLA
MINISTER FOR ENVIRONMENT; HERITAGE

Table 1: Summary of the Proposal

Proposal Title	Yeelirrie Uranium Project
Short Description	The proposal is to mine uranium ore from the Yeelirrie deposit, approximately 70 km south west of Wiluna, and the construction of associated mine infrastructure, including ore processing facilities, water abstraction and reinjection infrastructure, roads, accommodation, offices and workshops, stockpile and laydown areas and evaporation pond. Tailings will be discharged back into the mine open pit. The Uranium will be transported to a port permitted for uranium export outside of Western Australia

Table 2: Location and authorised extent of physical and operational elements

Column 1	Column 2	Column 3
Element	Location	Authorised Extent
Mine open pit	Figure 1	Clearing of no more than 726 ha within a 4,875 ha development envelope
Associated infrastructure	Figure 1	Clearing of no more than 1,696 ha within a 4,875 ha development envelope
Tailings disposal	In pit – Figure 1	Disposal of no more than 3.0 Mtpa
Water abstraction	Dewatering of pits and production from bore field	Abstraction of no more than 4.9 GL/a
Water reinjection		Reinjection of no more than 1.3 GL/a

Table 3: Abbreviations and Definitions

Acronym or Abbreviation	Definition or Term
ARI	Annual Recurrence Interval
CEO	The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act 1986</i> , or his delegate.
Clearing	As defined in the <i>Environmental Protection Act 1986</i>
COC's	Contaminants of Concern (uranium, vanadium, arsenic and molybdenum)
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i>
Ground disturbing activities	Activities that are associated with the substantial implementation of a proposal including but not limited to, digging (with mechanised equipment), blasting, earthmoving, vegetation clearance, grading, gravel extraction, construction of new or widening of existing roads and tracks.

OEPA	Office of the Environmental Protection Authority
Parks and Wildlife	Department of Parks and Wildlife
PEC	Priority Ecological Community
ha	Hectare
Mtpa	Million tonnes per annum
GL/a	Gigalitres per annum
TSF	Tailings storage facility

Figures (attached)

Figure 1 Development envelope

Figure 2 Location of neighbouring bores and 0.5 metre drawdown contour

Figure 3 Subterranean fauna PEC

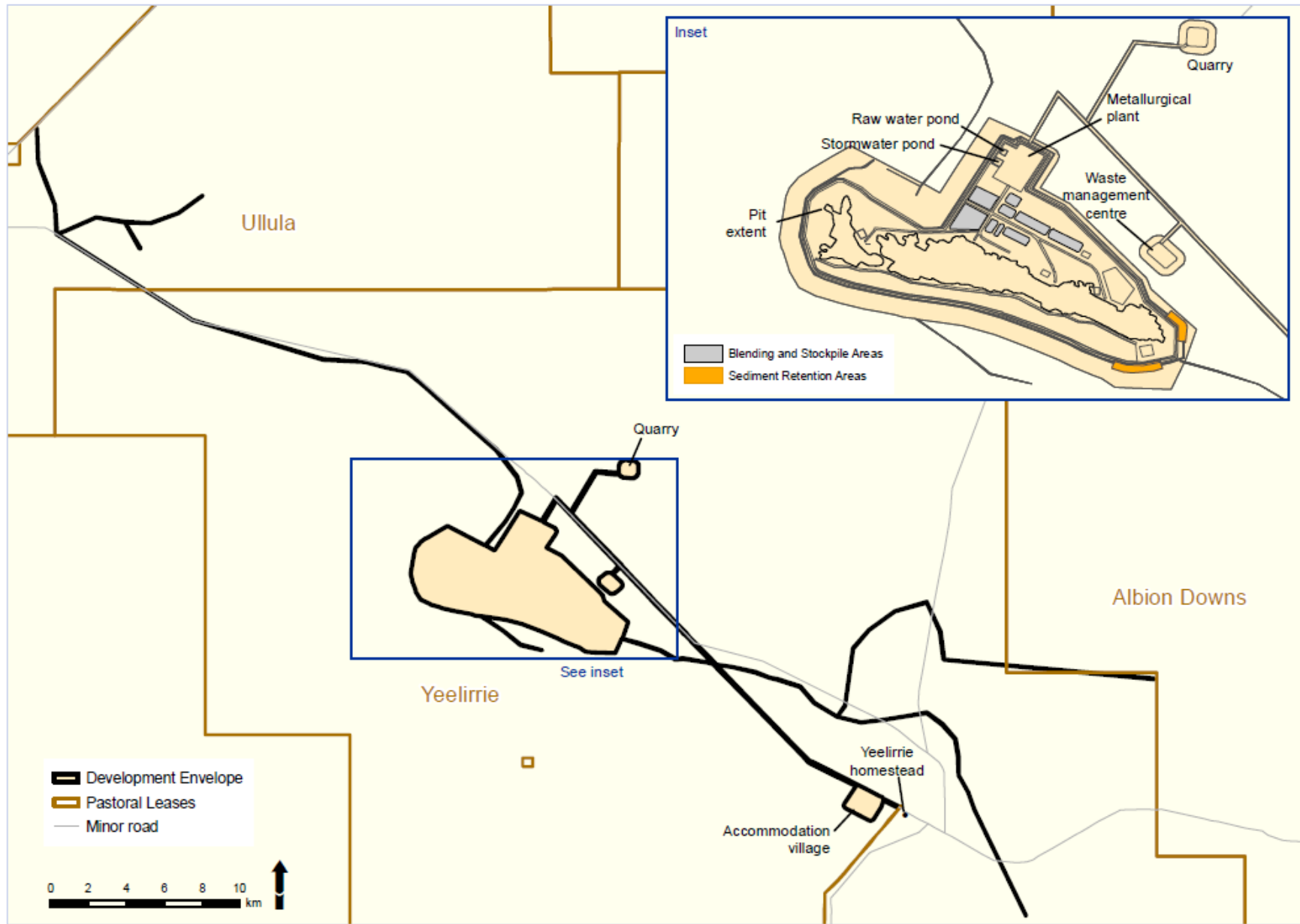


Figure 1 Development Envelope

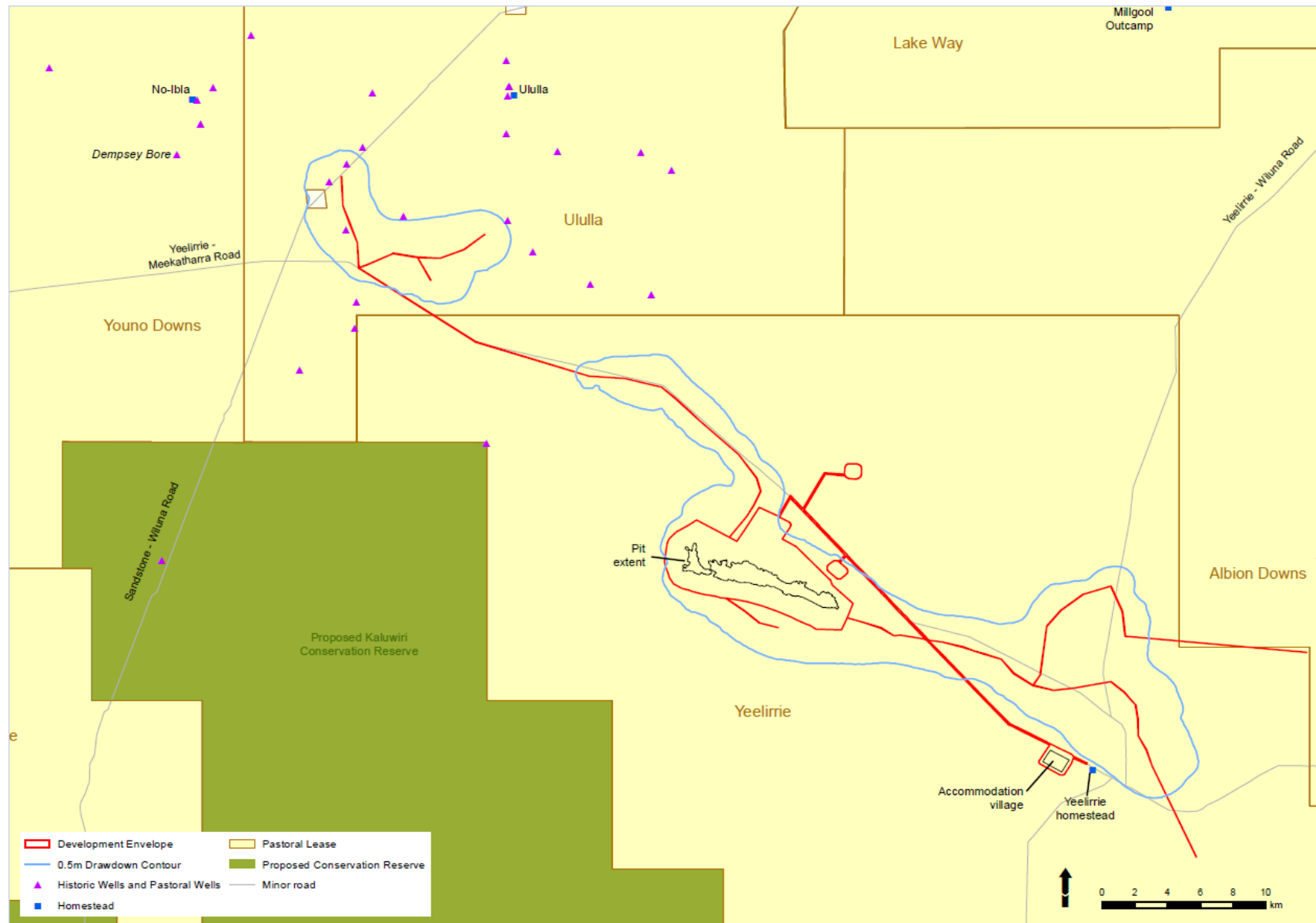


Figure 2 Location of surrounding bores, development envelope and 0.5 metre drawdown contour

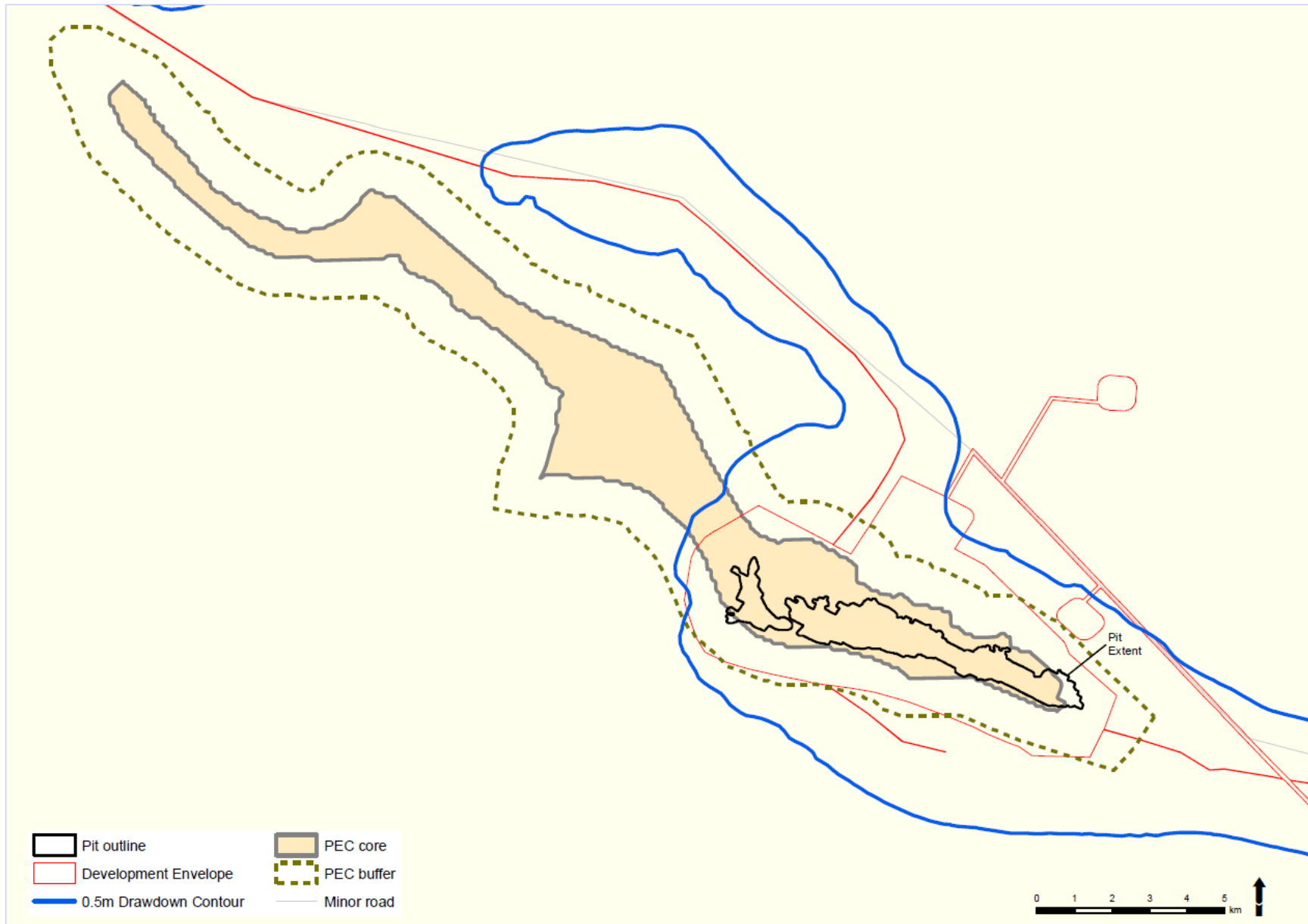


Figure 3 Subterranean fauna PEC

Schedule 2

Co-ordinates defining the Yeelirrie Uranium Project are held by the Office of the Environmental Protection Authority:

1. Development Envelope and Groundwater 0.5 m drawdown contour (Document Reference Number 2016-1479441256004)