



Northern
Territory
Government

WASTE DISCHARGE LICENCE

(Pursuant to section 74 of the *Water Act 1992*)

Licensee	Lithium Developments (Grants NT) Pty Ltd
Licence Number:	WDL253
Registered Business Address:	Level 9, 2 Mill Street Perth WA 6000
ACN:	622 047 232
ABN:	70 622 047 232
Commencement Date:	February 2024
Expiry Date:	February 2029
Licensed Action:	Controlled discharge of treated, mine-influenced water from the Finnis Lithium Project BP33 Underground Mine, Mine Water Dam (MWD) Cell 1 into Drainage Line BP1 that feeds into the Charlotte River and then into Bynoe Harbour, via the authorised discharge point (DP1) and subject to the conditions of this licence.
Premises	2873 Cox Peninsula Rd, Cox Peninsula Section 00001 Hundred of Parsons Mineral Licence ML32346 and MLN16 (Appendix 1)

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INFORMATION ABOUT THIS LICENCE

This waste discharge licence is granted pursuant to section 74 of the *Water Act 1992* (NT) (Water Act), which empowers the Controller of Water Resources to, in accordance with the Water Act, grant a licence to a person to carry out an action that would otherwise be an offence against this Act.

Responsibilities of Licensee

- In addition to the conditions set out in this licence, general responsibilities of Licensees are set out in the *Waste Management and Pollution Control Act 1998* (NT) (WMPC Act), the Water Act and the Water Regulations 1992 (NT) (Water Regulations).
- It is an offence under the Water Act, if the holder of a waste discharge licence contravene or cause, suffer or permit a person to contravene a term or condition to which the waste discharge licence is subject (s 76 Water Act).
- Except as expressly provided for in this licence or applicable law, it is an offence under section 16 of the Water Act to wilfully cause or cause, directly or indirectly:
 - waste to come into contact with water; or
 - water to be polluted.

Duration of Licence

- This licence will remain in force until its Expiry Date, it is surrendered by the Licensee, or until it is suspended or revoked by the Controller of Water Resources.
- A Licensee may surrender its licence at any time (s 94 Water Act).
- If the licensee wishes to surrender its licence it should complete the notification form approved by the Controller of Water Resources and provide a copy of the completed form to the Administering Agency.
- The authority to allow waste to come into contact with water or water to be polluted ends once a licence is surrendered, and any such occurrence after a licence is surrendered is an offence pursuant to s 16 of the Water Act.

Amendment, Modification or Revocation of Licence

- As set out in section 93 of the Water Act, the Controller of Water Resources may, by notice served on the holder of the licence:
 - amend or modify the terms and conditions of a licence; or
 - where the Controller of Water Resources is satisfied that the holder of the licence has contravened or failed to comply with a term or condition of the licence or of any other licence previously held by the person for a similar purpose during the 12 months immediately preceding the grant of the first-mentioned licence, the Controller of Water Resources may:
 - revoke a licence; or
 - suspend a licence.

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Transfer of Licence

- Where a waste discharge licence is granted to a person in relation to the person's use of land and, during the period of this licence, the person's interest in the land is transferred to another person, the waste discharge licence shall be deemed to have also been transferred to the other person (s 92 Water Act).
- The licensee must ensure the contact details recorded with the Administering Agency for the licence are correct at all times in accordance with condition. Accordingly, it is recommended the transferee complete the Controller of Water Resources approved notification of transfer of a waste discharge licence form.

Public Register

- A copy of this Licence will be placed on the Register in accordance with s 95 of the Water Act.
- A copy of plans for environmental management, reports, submissions or documents provided at Schedule 1 Item 13 will be placed on the Register.
- The Register is freely available from the Northern Territory Environment Protection Authority (NT EPA) website.

Water Quality Standards

- The Administrator may declare, by notice in the *Gazette*, a beneficial use, quality standard, criteria or objectives which apply in relation to any waste or class of waste, or water or class of water (s 73 Water Act).
- A water or waste beneficial use, quality standard, criteria or objectives declared under s 73 of the Act and in force is an Environment Protection Objective for the purposes of the WMPC Act (s 18 WMPC Act).
- An Environment Protection Objective is a statutory instrument to establish principles on which:
 - Environmental quality is to be maintained, enhanced, managed or protected;
 - Pollution, or environmental harm resulting from pollution, is to be assessed, prevented, reduced, controlled, rectified or cleaned up; or
 - Effective waste management is to be implemented or evaluated.
- Schedule 1 Item 1 specifies the beneficial use, quality standard, criteria or objective relevant to this licence at the date of issue.

Environmental Interests

- Environmentally sensitive or significant areas may be captured by and protected under the *Environment Protection Act 2019* (NT) and/or the *Environment Protection and Biodiversity Conservation Act 1999* (Cth). As such, and to best protect and regulate our waterways, waste discharge licences must identify the sensitivity of the environment surrounding the location of the Licensed Action.
- Schedule 1 Item 2 specifies the sites of conservation significance (if any) relevant to this licence at the date of issue.
- Schedule 1 Item 3 specifies the Ramsar wetlands (if any) relevant to this licence at the date of issue.

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Cultural Interests

- Under Commonwealth and Northern Territory laws it can be an offence to enter or remain on or damage a sacred site.
- Sites of Aboriginal significance including registered and recorded Aboriginal sacred sites may exist in the vicinity of the Licensed Action.
- It is the Licensee's responsibility to contact the Aboriginal Areas Protection Authority, appropriate land council or other governing body and ensure that any authority certificates required as a result of conducting the Licensed Action are obtained and complied with.
- Further specific advice on any cultural requirement or implication of the Licensed Action should be sought from the relevant land council and the Aboriginal Areas Protection Authority.

END NOTES

nil

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SCHEDULE 1 - ITEMS

Item	Detail		
1. Beneficial uses (condition 20)	<p>Declaration of Beneficial Uses Fog Bay Area (Gazette No. 9, 27/02/1998) – Aquatic Ecosystem Protection.</p> <p>Declaration of Beneficial Uses for the Daly Roper Beetaloo Water Control District (Gazette No. 25, 11/06/2019).</p>		
2. Sites of conservation significance (condition 20)	Not Applicable.		
3. Ramsar wetlands (condition 20)	Not applicable.		
4. Licence Documents (condition 13)	<p>(a) Water Management Plan; and</p> <p>(b) Water Balance Modelling Report.</p>		
5. Authorised Discharge Point (condition 23)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Discharge Point 1 (DP1) from Mine Water Dam (MWD) Cell 1 as shown on the map at Appendix 2.</td> <td style="width: 30%;"> <p>Latitude: -12.7128115</p> <p>Longitude: 130.7912214</p> </td> </tr> </table>	Discharge Point 1 (DP1) from Mine Water Dam (MWD) Cell 1 as shown on the map at Appendix 2.	<p>Latitude: -12.7128115</p> <p>Longitude: 130.7912214</p>
Discharge Point 1 (DP1) from Mine Water Dam (MWD) Cell 1 as shown on the map at Appendix 2.	<p>Latitude: -12.7128115</p> <p>Longitude: 130.7912214</p>		
6. Source(s) of waste (condition 26)	<p>Direct rainfall and mine-influenced water collected from Mineral Leases ML32346 and MLN16 that are captured and stored in Mine Water Dam (MWD) Cells 1 and 2.</p> <p>Water is discharged from MWD Cell 1 through DP1 and is released into Drainage Line BP1 (Appendix 3).</p>		
7. Trigger values (condition 26)	The limits for parameters listed in Appendix 4.		
8. Compliance point (condition 26)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Downstream surface water sampling point BPDS SW6 as shown on the map (Appendix 2).</td> <td style="width: 30%;"> <p>Latitude: -12.7253773</p> <p>Longitude: 130.7860708</p> </td> </tr> </table>	Downstream surface water sampling point BPDS SW6 as shown on the map (Appendix 2).	<p>Latitude: -12.7253773</p> <p>Longitude: 130.7860708</p>
Downstream surface water sampling point BPDS SW6 as shown on the map (Appendix 2).	<p>Latitude: -12.7253773</p> <p>Longitude: 130.7860708</p>		
9. Conditions on discharge (condition 26)	<p>Any authorised discharge must:</p> <ul style="list-style-type: none"> (a) Not include wastewater generated outside of ML32346 and MLN16; (b) Not include wastewater treated with polyacrylamide flocculants with more than 0.05% of the neuro-toxin acrylamide monomer; (c) Occur only when the stream gauge data at the Compliance Point BPDS SW6 shows there is a sufficient flow to achieve trigger values at the compliance point at Item 8; (d) Occur only when there is flow in Drainage Line BP1; and (e) In the event wastewater is treated, occur only when the treatment process has finished, including allowing sufficient residence time for settlement of flocculants and target contaminants. 		
10. Monitoring program (condition 30)	<p>The Monitoring Program includes:</p> <ul style="list-style-type: none"> (a) Surface water monitoring in accordance with Appendix 5; and (b) Macroinvertebrate and Sediment Monitoring Program in accordance with Appendix 6. 		
11. Critical contaminants	Aluminium (Al), Arsenic (As), Copper (Cu), Iron (Fe), Lithium (Li), Zinc (Zn), Total Phosphorus (TP), Total Nitrogen (TN), Nitrate (NO ₃) and Ammonia (NH ₃).		

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Item	Detail
12. Notifiable incidents (conditions 41-43)	Notifiable incidents include: <ul style="list-style-type: none"> (a) An exceedance of three or more times a trigger value specified in Item 7 at the compliance point in Item 8; (b) For physical and chemical stressors (pH, EC, turbidity, DO), an exceedance (or measurement outside the range) of a trigger value specified in Item 7 at the compliance point in Item 8, on three consecutive sampling occasions; (c) For toxicants, two or more exceedances of a trigger value specified in Item 7, at the compliance point in Item 8, during one annual reporting period ; (d) A discharge at a point not specified in Item 5; (e) A discharge from a source not specified in Item 6; (f) A failure to comply with condition 29; or (g) A failure to comply with condition 38.
13. Documents placed on Register (condition 13)	The following documents will be placed on the Register: <ul style="list-style-type: none"> (c) The Licence Documents at Item 4. (d) The Monitoring Report provided in accordance with condition 45. (e) The Annual Return.
14. Compliance with trigger values (condition 26)	For the annual reporting period, the trigger values at Item 7 shall be regarded as being complied with if: <ul style="list-style-type: none"> (a) For metals, hydrocarbons and other toxicants, not more than one measurement or, if more than 20 samples are collected, 5% of measured values, exceed the trigger values specified in Item 7; (b) For nutrients and physico-chemical parameters (DO, pH, EC, turbidity,), the median value of measurements does not exceed, or is not outside the range of, the trigger values specified in Item 7; and (c) For any other indicators, not more than 20% of samples exceed, or are outside the range of, the trigger values specified in Item 7.
15. Special conditions (condition 43)	NA

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LICENCE CONDITIONS

RULES FOR INTERPRETING THE CONDITIONS OF THIS LICENCE

1. Where there is a discrepancy between the conditions of this licence and any plan, standard, guideline or other document referred to in this licence, the conditions of this licence prevail to the extent of the inconsistency.
2. Any reference to any standard, guideline or code of practice (Australian or international) in this licence means the relevant parts of the current version of that standard, guideline or code of practice.
3. In this licence, unless the contrary intention appears, words that are defined in the Water Act are intended to have the meaning given to them in that Act.
4. In this licence, unless a contrary intention appears, terms are defined in the Definitions at the end of this licence.
5. In this licence a reference to an Item is a reference to an Item in Schedule 1.

GENERAL

6. The licensee must ensure the contact details recorded with the Administering Agency for this licence are correct at all times.
7. The licensee must at all times have a 24-hour emergency contact.
8. The licensee must notify the Administering Agency prior to making any operational change that will cause, or is likely to cause, an increase in the potential for environmental harm.
9. The licensee must display clear and legible signage, in English, in a prominent location at each public entrance to the premises of the Licensed Action that includes the following details:
 - 9.1. waste discharge licence number issued under the Water Act; and
 - 9.2. 24-hour emergency contact details.
10. The licensee must cause a hard copy of this licence to be available for inspection, at the premises of the Licenced Action, by any person on request.
11. Unless otherwise specified, within 10 business days of a request, the licensee must provide to the Administering Agency a copy of any document, monitoring data or other information in relation to the Licensed Action in electronic form by emailing environmentalregulation@nt.gov.au.
12. All notices, reports, documents or other correspondence required to be provided as a condition of this licence, unless otherwise specified as a condition of this licence, must be provided in electronic form by emailing environmentalregulation@nt.gov.au.
13. The licensee must maintain, implement and comply with the current version of the documents listed in Item 4.
14. Within 10 business days of any amendment being made to a document listed in in Item 4, the licensee must provide the amended document to the Administering Agency, along with:
 - 14.1. a tabulated summary of the amendment(s) with document references;
 - 14.2. reasons for the amendment(s); and
 - 14.3. an assessment of environmental risk associated with the amendment(s).
15. The Administering Agency may require the licensee to revise or amend and resubmit any document provided in accordance with this licence. Where the Administering Agency requires any document to be revised or amended, the licensee must submit it to the Administering Agency by the date specified by the Administering Agency.
16. The licensee must operate and maintain a community feedback telephone number enabling members of the public to contact, at any time, a person or voice mail system that can accept, on behalf of the licensee, enquiries or complaints about the Licensed Action, and to which the licensee must respond. The community feedback telephone number must be displayed:
 - 16.1. where the licensee has a website, in a prominent location on the licensee's website;

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- 16.2. in the Stakeholder Engagement Plan; and
 - 16.3. in other publicly available documents relating to the Licensed Action.
17. The licensee must maintain a register of complaints that records the details of each complaint received in relation to the Licensed Action and provide a copy to the Administering Agency on request. Details of the complaint must (as is reasonably practicable) include, the following information:
- 17.1. the person to whom the complaint was made;
 - 17.2. the person responsible for managing the complaint;
 - 17.3. the date and time the complaint was reported;
 - 17.4. the date and time of the event(s) that led to the complaint;
 - 17.5. the contact details of the complainant if known, or where no details are provided a note to that effect;
 - 17.6. the nature of the complaint;
 - 17.7. the nature of event(s) giving rise to the complaint;
 - 17.8. prevailing weather conditions at the time (where relevant to the complaint);
 - 17.9. the action taken in relation to the complaint, including any follow-up contact with the complainant; and
 - 17.10. if no action was taken, why no action was taken.

MONITORING INFORMATION

18. If the licence expires or is otherwise surrendered, suspended or revoked and the licence contained a condition that the licensee provide a report, record or other information, including in accordance with a monitoring program pursuant to section 77 of the Water Act, the licensee must provide any report, record, information or data available to the licensee up to and including the date the licence expired or was surrendered, suspended or revoked.

OPERATIONAL

19. Without limiting the conditions of this licence, in conducting the Licensed Action, the licensee must do all things reasonable and practicable to:
- 19.1. prevent or minimise the likelihood of pollution occurring as a result of, or in connection with, the Licensed Action;
 - 19.2. prevent or minimise the likelihood of environmental harm occurring as a result, or in connection with, the Licensed Action;
 - 19.3. effectively respond to pollution and the risk of pollution occurring as a result of, or in connection with, the Licensed Action;
 - 19.4. effectively respond to environmental harm and the risk of environmental harm occurring as a result of or in connection with the Licensed Action; and
 - 19.5. apply the principles of ecologically sustainable development.
20. The licensee must, without limiting any other condition of this licence, in conducting the Licensed Action do all things reasonable and practicable to ensure the Licensed Action does not adversely affect any:
- 20.1. declared beneficial use, quality, standard or objectives declared under section 73 of the Water Act;
 - 20.2. sites of conservation significance; or
 - 20.3. designated Ramsar wetlands,
- including, but not limited to, those listed at Items 1, 2 and 3.

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21. The licensee must ensure any plant and equipment used by the licensee in conducting the Licensed Action:
 - 21.1. is reasonably fit for the purpose and use to which it is put;
 - 21.2. is maintained and operational; and
 - 21.3. is operated by a person trained to use the plant and equipment.
22. No change, replacement or alteration of plant and equipment is permitted if the change, replacement or alteration increases the risk of environmental harm for the Licensed Action, unless approved by the Administering Agency.

DISCHARGES

23. The Licensee must only discharge waste to water from the authorised discharge points specified in Item 5.
24. Where the Administering Agency directs the licensee to cease discharge from an authorised discharge point identified in Item 5, the licensee must immediately cease the discharge.
25. A direction to cease discharge may be verbal or written, but a verbal direction from the Administering Agency will be provided in writing within 48 hours of the verbal direction. A failure to provide a written direction does not affect the requirement to comply with a verbal direction.
26. The licensee must ensure that discharge from each authorised discharge point:
 - 26.1. consists only of waste from the source(s) as specified in Item 6;
 - 26.2. does not cause a non-compliance with the conditions specified at Item 14 at the compliance point at Item 8;
 - 26.3. meets the conditions at Item 9.
27. Following any exceedance of a trigger value limit specified in Item 7 at the compliance point specified in Item 8, the Licensee must:
 - 27.1. investigate the exceedance, including undertaking targeted monitoring, in addition to routine monitoring; and
 - 27.2. take corrective action to mitigate any environmental harm and ensure the exceedance does not reoccur; and
 - 27.3. make a record of:
 - 27.3.1. when the exceedance was detected and by whom;
 - 27.3.2. the date and time of the exceedance;
 - 27.3.3. the actual and potential causes and contributing factors to the exceedance;
 - 27.3.4. the risk of environmental harm arising from the exceedance;
 - 27.3.5. exceedances and details of the investigation and corrective action taken; and
 - 27.3.6. if no action was taken, why no action was taken.
28. The licensee must, for each authorised discharge point, install, operate and maintain a device to measure and record, for each discharge event:
 - 28.1. the time the discharge commenced and the duration of the discharge;
 - 28.2. the discharge rate of flow; and
 - 28.3. the discharge volume.
29. The licensee must ensure that the discharge from all discharge events at each authorised discharge point does not:
 - 29.1. contain any floating debris, oil, grease, petroleum hydrocarbon sheen, scum, litter or other objectionable matter;

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- 29.2. cause or generate odours which would adversely affect the use and amenity of surrounding waters;
- 29.3. cause algal blooms in the receiving water;
- 29.4. pollute groundwater;
- 29.5. cause visible change in the behaviour of fish or other aquatic organisms in the receiving water;
- 29.6. cause mortality of fish or other aquatic organisms;
- 29.7. cause erosion or degradation to the beds and banks of a watercourse; or
- 29.8. cause adverse impacts on plants or animals.

MONITORING

30. From the Commencement Date of this licence, the licensee must implement and comply with the Monitoring Program specified in Item 10.
31. The licensee must ensure that the Monitoring Program is designed, maintained and implemented in accordance with the following principles:
 - 31.1. the need to monitor loads upstream and downstream, including in-stream decay in loads downstream, of authorised discharge points;
 - 31.2. the need for event-based monitoring, in addition to routine monitoring, including revisiting sampling points as soon as practicable when samples cannot be collected at frequencies set in the Monitoring Program;
 - 31.3. the need for special studies to better described in-stream physical, chemical and biological processes;
 - 31.4. the need to target the possible critical contaminants listed at Item 11;
 - 31.5. the need to select sampling points that provided representative (well mixed) samples;
 - 31.6. the need to collect samples that are representative of discharge conditions, including taking samples from sampling points on the same day as discharge and consecutively from upstream to downstream; and
 - 31.7. the need to adopt a range of biological surveys to assess the health of the system.
32. The licensee must ensure that all samples and field environmental data are collected in accordance with recognised Australian Standards and guidelines (such as AS/NZS 5667.1 1998, ANZG (2018), as updated from time to time).
33. For the parameters that require analysis at a laboratory, the licensee must ensure that all samples are analysed at a laboratory with current NATA accreditation or equivalent.
34. The licensee must ensure any samples collected in accordance with the Monitoring Program or in connection with the Licensed Action or this licence, are obtained by, or under the supervision of a qualified sampler.
35. The licensee must ensure that, for each sample collected in accordance with the Monitoring Program or the Licensed Action, the following information must be recorded and retained:
 - 35.1. the date on which the sample was collected;
 - 35.2. the time at which the sample was collected;
 - 35.3. the location at which the sample was collected;
 - 35.4. the name of the person who collected the sample;
 - 35.5. the chain of custody forms relating to the sample;
 - 35.6. the field measurements (if any) and analytical results (if any) relating to the sample; and
 - 35.7. laboratory quality assurance and quality control documentation.
36. The licensee must for all land based monitoring points specified in the Monitoring Program:

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- 36.1. install and maintain appropriate identification signage so that they are reasonably identifiable at all times; and
 - 36.2. maintain safe access and egress, as is reasonably practicable.
37. The licensee must ensure that any proposed revisions to the Monitoring Program (other than typographical changes or revisions to formatting or referencing) are:
 - 37.1. reviewed by a Qualified Person, who must produce a written report about their review;
 - 37.2. submitted to the Administering Agency with justification for revisions; and
 - 37.3. submitted to the Administering Agency, in both hard copy and electronic form (with a complete copy of the Qualified Person's written review), 20 business days prior to the proposed implementation date.

NOTIFICATION AND REPORTING

38. The licensee must keep records of all exceedances of trigger values of parameters specified in Item 7, including those that are not notifiable incidents listed at Item 12, and provide a copy on request of the Administering Agency.
39. The Licensee must keep records of all contraventions with this licence. These records must be adequate to enable the licensee to comply with the non-compliance notification conditions of this licence.
40. *This standard condition has been removed*
41. The licensee must notify the Administering Agency of any notifiable incident listed at Item 12 or non-compliance with this licence, by emailing environmentalregulation@nt.gov.au, as soon as practicable after (and in any case within 24 hours after) first becoming aware of the non-compliance.
42. The licensee must include in the notification of the notifiable incident at Item 12 or non-compliance, the following information:
 - 42.1. when the incident or non-compliance was detected and by whom;
 - 42.2. the date and time of the incident or non-compliance;
 - 42.3. whether discharge was occurring at the time of the incident or non-compliance and the source of the discharge;
 - 42.4. whether non-compliant discharge is still occurring; and
 - 42.5. a date (within 10 business days of the incident or non-compliance) when an investigation report will be submitted to the Administering Agency.
43. Within 10 business days of notifying the Administering Agency of any notifiable incident at Item 12 or non-compliance, the licensee must provide the Administering Agency an investigation report that includes:
 - 43.1. when the incident or non-compliance was detected and by whom;
 - 43.2. the date and time of the incident or non-compliance;
 - 43.3. whether discharge was occurring at the time of the incident or non-compliance and the source of the discharge;
 - 43.4. the actual and potential causes and contributing factors to the incident or non-compliance;
 - 43.5. monitoring data of the discharge, and upstream and downstream water of the authorised discharge point, collected for the date the incident or non-compliance was detected and three sampling rounds prior;
 - 43.6. available flow rates to demonstrate any influence streams and rivers may have had on the exceedance of trigger values;
 - 43.7. rainfall recorded at the site prior to the exceedance of trigger values and incident or non-compliance;

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- 43.8. the risk of environmental harm arising from the incident or non-compliance;
 - 43.9. the action(s) that have or will be undertaken to mitigate any environmental harm arising from the incident or non-compliance;
 - 43.10. corrective actions that have or will be undertaken to ensure the incident or non-compliance does not reoccur; and
 - 43.11. if no action was taken, why no action was taken.
44. The licensee must submit a completed Annual Return, by emailing environmentalregulation@nt.gov.au, within 10 business days after each Anniversary Date of this licence, which report relates to the preceding 12 month period. The report must
- 44.1. be in the approved form; and
 - 44.2. contain details of all notifiable incidents and non-compliances with this licence during the reporting period.
45. The licensee must complete and provide to the Administering Agency an annual report of data and information obtained through the implementation and performance of the Monitoring Program (the Monitoring Report), as prescribed by this licence, within 10 business days after each Anniversary Date of this licence.
46. The licensee must ensure that each Monitoring Report:
- 46.1. is prepared in accordance with the requirements of the Administering Agency 'Guideline for Reporting on Environmental Monitoring' (or any other guideline as adopted by the Administering Agency from time to time);
 - 46.2. includes a tabulation of all monitoring data required as a condition of this licence (data must be provided electronically in Microsoft® Excel® format);
 - 46.3. includes a tabulation of monthly and annual contaminant loads discharged from the authorised discharge point listed at Item 5. Contaminant loads must be calculated for total metals, total metalloids, total nutrients and other parameters (excluding field parameters) listed in Appendix 3. The calculations must be based on the daily discharge volume and the concentration of contaminant present in the discharge on that day. On the days when a sample was not taken then the concentration of the contaminant must be estimated using Linear Interpolation methodology;
 - 46.4. includes long term trend analysis of monitoring data to demonstrate any environmental impact associated with the Licensed Action over a minimum period of three years (where the data is available
 - 46.5. includes the actions taken and results of investigation for all incidents when a trigger value was exceeded as specified in condition 27; and
 - 46.6. includes an assessment of environmental impact from the Licensed Action.
47. A copy of the documents listed at Item 13 will be placed on the Register.

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END OF LICENCE CONDITIONS

This licence is not valid unless signed below:

A handwritten signature in blue ink that reads "Andrew Johnson". The signature is written in a cursive style with a trailing flourish.

ANDREW JOHNSON
Controller of Water Resources

Date: 9 February 2024

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DEFINITIONS

In this licence, unless a contrary intention appears:

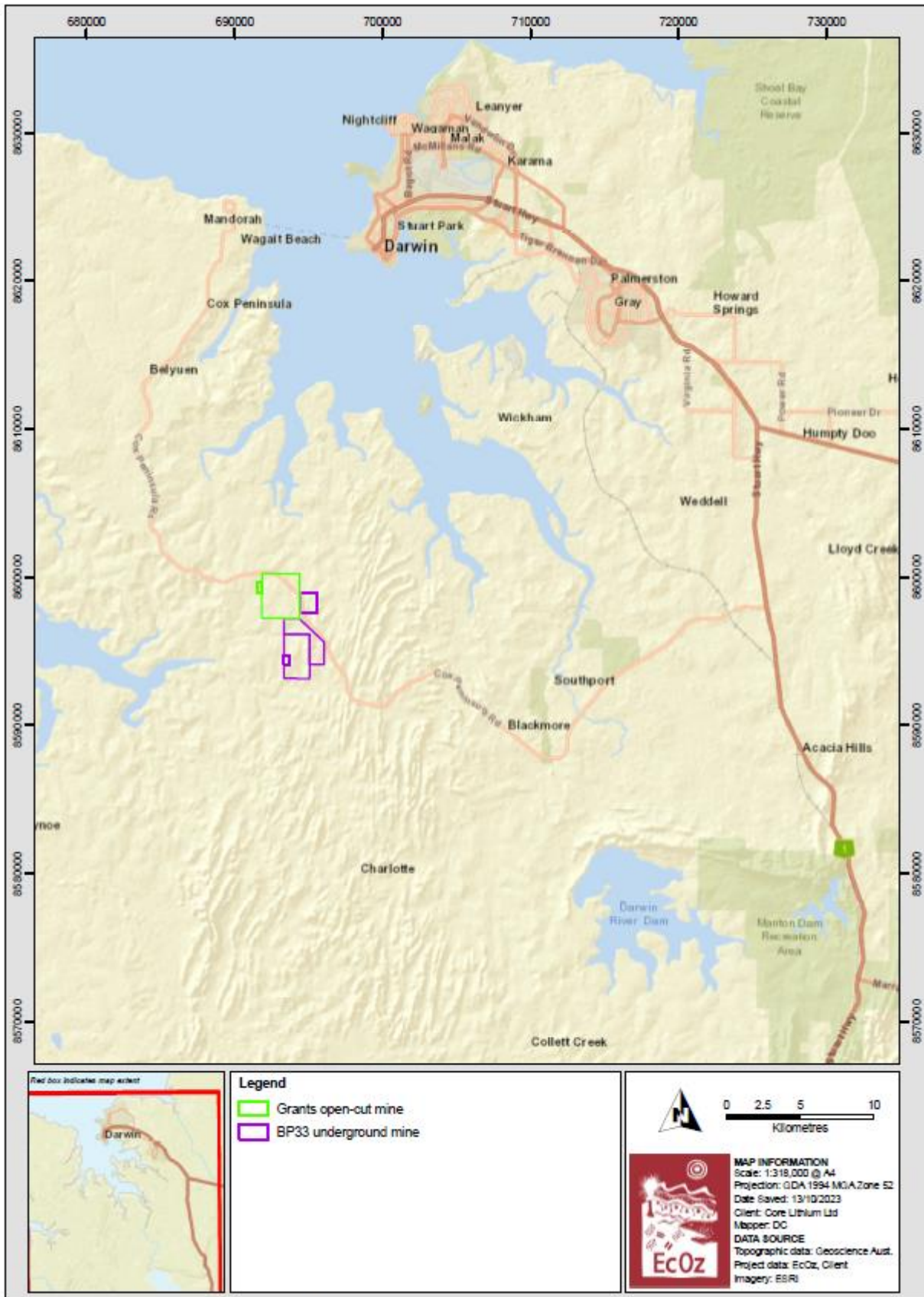
Term	Definition
24-hour emergency contact	the phone number of a person who can be contacted at any time and be capable of responding to and providing information about any incident associated with the Licensed Action.
Administering Agency	means the NT Government Department with responsibility for administering the Water Act.
Anniversary Date	annual anniversary of the Commencement Date.
Annual Return	an Administering Agency prescribed format for demonstrating and reporting compliance with the conditions of this licence.
ANZG (2018)	Australian and New Zealand Guidelines for Fresh and Marine Water Quality. Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia. Available at http://www.waterquality.gov.au/anz-guidelines .
business days	a day not Saturday, Sunday or a public holiday, in Darwin, Northern Territory.
Consultation and Communication Plan	a written plan documenting proposed consultation and communications for the Licensed Action before, during and after the Licensed Action which includes a strategy for communicating with members of the public who are likely to have a real interest in, or be affected by, the Licensed Action.
contact details	includes the 24 hour emergency contact, and name, position title and phone number of a representative of the Licensee who can be contacted about the licence and Licensed Action.
discharge	releasing or allowing a liquid, gas or other substance to flow out from where it has been confined.
Dry season	means 1 May to 31 October.
Emergency Response Plan	a written plan documenting the Licensee's procedures for responding to emergencies caused by, resulting from or associated with the Licensed Action and that may cause environmental harm.
Licensed Action	the Licensed Action as described on the covering page of this licence.
Linear Interpolation	a method to construct new data points within the range of known data points. $y = y1 + ((x - x1) * ((y2 - y1) / (x2 - x1)))$ <p>y is the unknown concentration between known concentrations y1 and y2 y1 is the first known concentration y2 is the second known concentration x is the day of the unknown concentration y x1 is the day of the first known concentration y1 x2 is the day of the second known concentration y2</p>
litter	litter, garbage, rubbish, refuse or waste matter, and includes the body of a dead animal.
NATA	National Association of Testing Authorities, Australia.
plant and equipment	all material items used in association with the Licensed Action, including (but not limited to) storage vessels and containers, pipe work and hosing, vehicles (including vessels), tools, and measuring equipment.

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Term	Definition
pollution	has the same meaning as <i>pollute</i> as defined in section 4 of the Water Act.
public entrance	access to the licensed premises that is utilised by the public.
qualified sampler	a person who has training and experience in obtaining samples from the relevant environmental medium.
Register	the register available at the website of the Northern Territory Environment Protection Authority (NT EPA).
wastewater	water that contains a waste.
Water Act	<i>Water Act 1992</i> (NT).
Wet season	means 1 November to 30 April.

WASTE DISCHARGE LICENCE (WDL253)

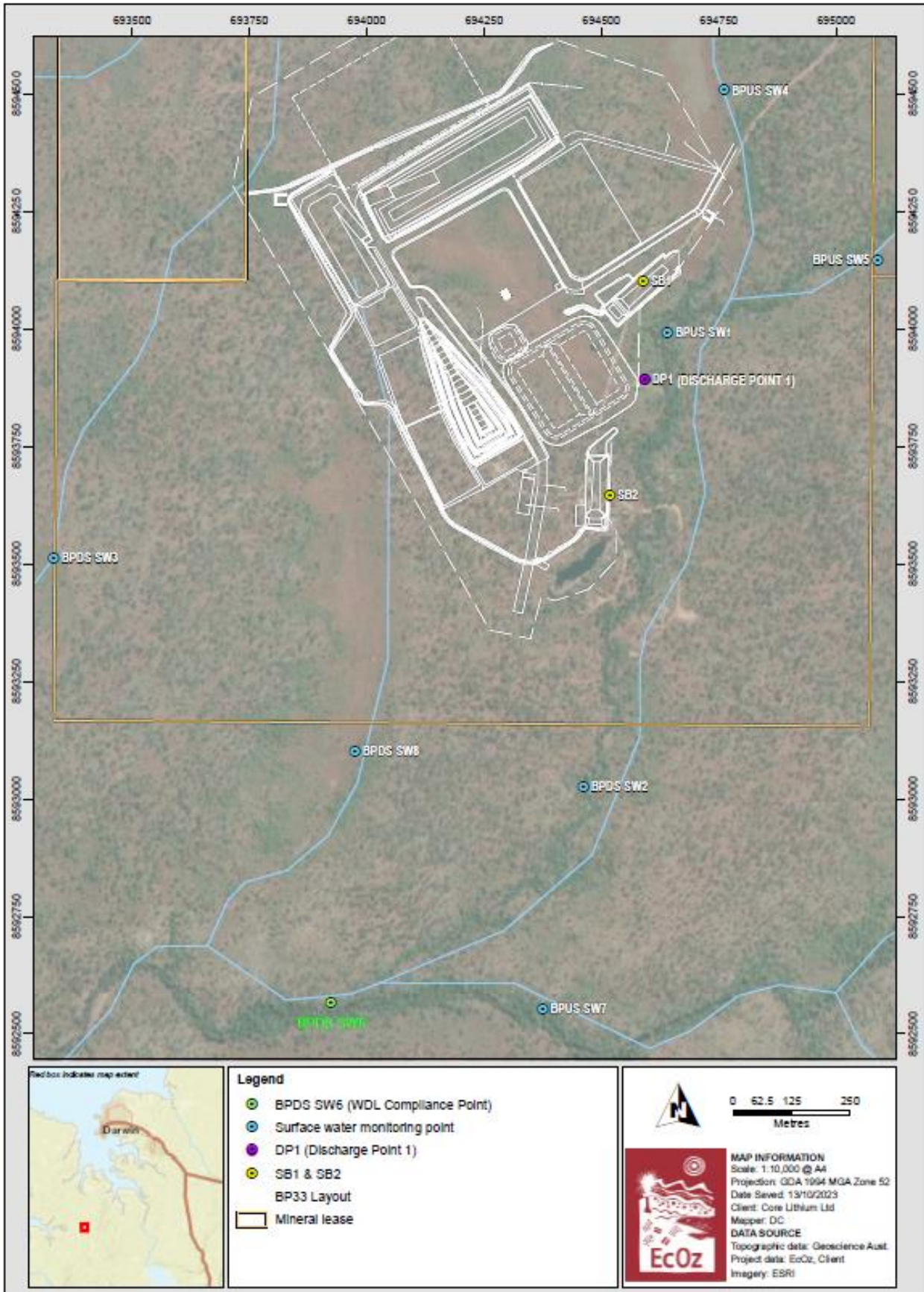
APPENDIX 1: Location of Finniss Lithium Project



Path: Z:\01 EcOz_Document\04 EcOz_Verbage GIS\223107 - BP33 WDL Application\1. Project Files\2. Report Maps\General location.mxd

WASTE DISCHARGE LICENCE (WDL253)

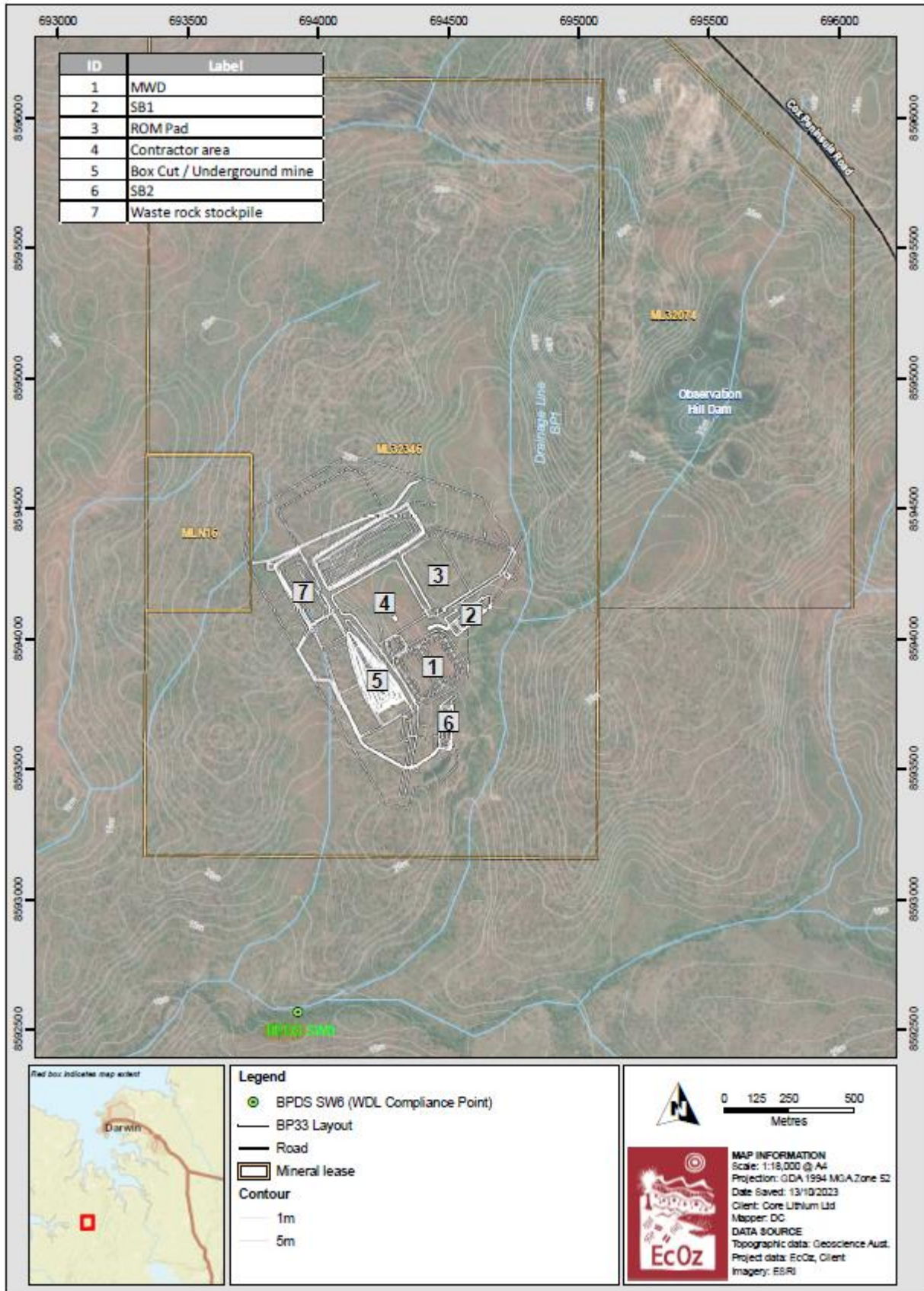
APPENDIX 2: Compliance Point, Discharge Point, and Surface Water Monitoring Points



Path: Z:\01 EcOz_Documents\04 EcOz Heritage GIS\223107 - BP33 WDL Application\1. Project Files\2. Report Maps\Map of discharge and compliance points.mxd

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APPENDIX 3 : BP33 Underground Mine Infrastructure and layout



Path: Z:\01 EcOz_Documents\04 EcOz Vantage GIS\2223\07 - BP33 WDL Application\1. Project Files\2. Report Maps\Location of BP33 and surrounding land uses.mxd

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APPENDIX 4: Discharge Trigger Values/SSTV

				Sampling Point	Compliance Point
				Site Code	BPDS SW6
				Latitude	-12.7253773
				Longitude	130.7860708
PARAMETER	Abbrev.	Units	Analysis	Trigger Values ¹	
pH	pH	pH	In situ	5.4 ² – 6.7 ³	
Electrical Conductivity	EC	µS/cm		250	
Turbidity	NTU	NTU		14 ³	
Dissolved Oxygen	DO	mg/L		50-100	
Total Nitrogen	TN	µg/L	Unfiltered	300 ³	
Total Phosphorus	TP			20 ³	
Aluminium	Al	µg/L	Filtered (0.45 µm)	70 ³	
Arsenic	As			13	
Cadmium	Cd			0.2	
Chromium (CrVI)	Cr			1	
Cobalt	Co			1.4	
Copper	Cu			1.4	
Iron	Fe			380 ³	
Lead	Pb			3.4	
Lithium	Li			430 ⁴	
Nickel	Ni			11	
Zinc	Zn			8	

¹ ANGZ (2018) 95% species protection, freshwater, unless otherwise specified.

² 20th percentile of background data for surface water quality.

³ 80th percentile of background data for surface water quality.

⁴ Ecotoxicological Assessment – see Grant’s Water Management Plan (WRM, 2023).

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APPENDIX 5: Surface Water Monitoring Program

Parameter/Site			Operational			Upstream			Downstream				
			MWD Discharge ¹	SB1	SB2	BPUS SW4	BPUS SW5	BPUS SW7	BPUS SW1	BPDS SW2	BPDS SW3	BPDS SW6 Compliance	BPDS SW8
GPS Coordinates (latitude and longitude)			-12.7128115 130.7912214	-12.71146623 130.79209568	-12.71558608 130.7914748	-12.70776534 130.7936642	-12.71102426 130.796696	-12.72547491 130.79022228	-12.71243714 130.7925837	-12.7212 130.791	-12.716872 130.780576	-12.72537727 130.7860708	-12.72054092 130.7865124
Parameter	Abbrev	Unit	Frequency										
Field													
Flow	-	kL/day	C*	N/A	N/A	W	W	W	W	W	W	C	W
Water level	-	M	P, D	N/A	N/A	W	W	W	W	W	W	C	W
pH	-	Unit	P, D	WD	WD	W	W	W	W	W	W	D	W
Electrical Conductivity	EC	µS/cm	P, D	WD	WD	W	W	W	W	W	W	D	W
Turbidity	-	NTU	P, D	D	D	W	W	W	W	W	W	D	W
Temperature	-	C	P, D	WD	WD	W	W	W	W	W	W	D	W
Oxidation Reduction Potential	ORP	mV	P, D	WD	WD	W	W	W	W	W	W	D	W
Dissolved Oxygen	DO	% sat	P, D	WD	WD	W	W	W	W	W	W	D	W
Nutrients (unfiltered excluding FRP) and chlorophyll-a													
Ammonia	NH ₄ ⁺	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Oxides of Nitrogen	NO _x	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Nitrate	NO ₃	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Total Nitrogen	TN	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W

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Parameter/Site			Operational			Upstream			Downstream				
			MWD Discharge ¹	SB1	SB2	BPUS SW4	BPUS SW5	BPUS SW7	BPUS SW1	BPDS SW2	BPDS SW3	BPDS SW6 Compliance	BPDS SW8
Total Phosphorus	TP	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Filterable Reactive Phosphate	FRP	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Chlorophyll-a	Chl-a	µg/L	-	N/A	N/A	W	W	W	W	W	W	W	W
Metals and Metalloids – total and filtered (0.45 µm)													
Aluminium	Al	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Arsenic	As	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Cobalt	Co	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Copper	Cu	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Iron	Fe	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Lead	Pb	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Lithium	Li	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Nickel	Ni	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Zinc	Zn	µg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Full elemental scan		µg/L	A	A	A	A	A	A	A	A	A	A	A
Other – filtered (0.45 µm) excluding TSS													
Sulphate	SO ₄	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Chloride	Cl	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Calcium	Ca	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Magnesium	Mg	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Potassium	K	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Sodium	Na	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Carbonate	CO ₃ ²⁻	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Bicarbonate	HCO ₃	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W

WASTE DISCHARGE LICENCE (WDL253)

Parameter/Site			Operational			Upstream			Downstream				
			MWD Discharge ¹	SB1	SB2	BPUS SW4	BPUS SW5	BPUS SW7	BPUS SW1	BPDS SW2	BPDS SW3	BPDS SW6 Compliance	BPDS SW8
Total Dissolved Solids	TDS	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W
Total Suspended Solids	TSS	mg/L	P, WD	WD	WD	W	W	W	W	W	W	W	W

P = prior to discharge.

C = continuous

D = within 24 hours of commencement of discharge and daily during discharge. Weekly when no discharge is occurring.

WD = weekly during discharge (from sediment basins or MWD respectively)

W = within 24 h of discharge from MWD and weekly during discharge and for 2 weeks post discharge. Otherwise monthly when water is present, regardless of flow.

A = annually, at end of wet season on recession flows.

¹ The sampling point in the MWD will be located close to BP DP1 to ensure it is representative of discharge water quality.

* Continuous flow monitoring must be representative of discharge flows at BP DP1

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APPENDIX 6: Macroinvertebrate and Sediment Monitoring Program

Site			BP4	BPUS SW1	BPDS SW2	BP3	GDS SW5	UC1	UC2
GPS Coordinates (latitude and longitude)			-12.7255462 130.8216379	-12.71243714 130.7925837	-12.7212 130.791	-12.7253908 130.7847151	-12.6518245 130.7804192	-12.6495807 130.7820973	-12.6567103 130.7783543
Macroinvertebrate Sampling			A	A	A	A	A	A	A
Sediments									
Metals and metalloids - <63 µm sediment fraction analysed									
Aluminium	Al	mg/kg	A	A	A	A	A	A	A
Arsenic	As	mg/kg	A	A	A	A	A	A	A
Cadmium	Cd	mg/kg	A	A	A	A	A	A	A
Chromium	Cr	mg/kg	A	A	A	A	A	A	A
Cobalt	Co	mg/kg	A	A	A	A	A	A	A
Copper	Cu	mg/kg	A	A	A	A	A	A	A
Iron	Fe	mg/kg	A	A	A	A	A	A	A
Lead	Pb	mg/kg	A	A	A	A	A	A	A
Lithium	Li	mg/kg	A	A	A	A	A	A	A
Mercury	Hg	mg/kg	A	A	A	A	A	A	A
Nickel	Ni	mg/kg	A	A	A	A	A	A	A
Zinc	Zn	mg/kg	A	A	A	A	A	A	A
Nutrients									
Total Nitrogen	TN	µg/L	A	A	A	A	A	A	A
Total Phosphorus	TP	µg/L	A	A	A	A	A	A	A
Other									
Particle Size Distribution			A	A	A	A	A	A	A
Total Organic Carbon	Mg/L		A	A	A	A	A	A	A
Moisture Content	%		A	A	A	A	A	A	A

A = annually, at end of wet season on recessional flows. Sediment and biological sampling to be undertaken concurrently.

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