



Annual EPBC Compliance Report – 2021-2022

Warrawoona Gold Project (EPBC 2019/8584)

Annual EPBC Compliance Report February 2021 - 2022

Rev	Revision Details	Prepared	Reviewed	Authorised	Date
1	EPBC Compliance Report February 2021 – 2022 Submission to AWE	K George	P. Brennan	P. Brennan	23/5/2022

Calidus Resources Limited
ACN 006 640 553
PO Box 1240
West Perth WA 6872
Australia 6005
+61 8 6245 2050
info@calidus.com.au
<https://www.calidus.com.au/>

This document has been prepared based on assumptions as reported throughout and upon information and data supplied by others.

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Declaration of accuracy

In making this declaration, I am aware that sections 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed  _____

Full name (please print) _____ PAUL BRENNAN _____

Position (please print) _____ PROJECT DEVELOPMENT _____

Organisation (please print including ABN/ACN if applicable) _____

Date _____ 23 ____ / ____ 5 ____ / ____ 2022 ____

1 Introduction

This annual report has been compiled to fulfil the reporting requirements of Calidus Resources Limited's (Calidus) approvals, as listed below.

- Warrawoona Gold Project, Pilbara Region, WA (EPBC 2019/8584)

The Warrawoona Gold Project (EPBC 2019/8584) was approved under Part 9 of the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) on 12 February 2021 and involves the development of the Warrawoona open pit and underground mine site within the Chichester Ranges of the Pilbara region of Western Australia. A variation to the conditions attached to the EPBC approval was approved on the 2 August 2021.

This report fulfils the reporting requirements of condition 33 of (EPBC 2019/8584) and is based on the 2021/22 annual reporting period of 27 February 2021 to 26 February 2022.

2 Warrawoona Gold Project (EPBC 2019/8584) Compliance Summary

Table 2-1: Compliance table for EPBC 2019/8584

#	Condition	Evidence	Status
1	<p>Part A – Conditions specific to the action</p> <p>1. To minimise impacts to the Ghost bat, Northern quoll, Pilbara olive python and Pilbara leaf-nosed bat the approval holder must not:</p> <ul style="list-style-type: none"> a. clear more than 465 ha within the development envelope**, including 0.8 ha of rocky breakaway habitat; or b. clear more than the six temporary refuge sites for bats; or c c. extract more than 1.6 GL per annum of groundwater. 	<p>During the 2021-2022 compliance period</p> <ul style="list-style-type: none"> a. a total of 153 ha was cleared within the development envelope**. (refer to appendix 1– for a map of clearing conducted for the reporting period). To date 153 ha has been cleared within the development envelope**. b. Zero hectares of rocky breakaway habitat has been cleared (refer to appendix 1) c. Six temporary refuge sites for bats have been cleared (refer to appendix 2– memos from Bat specialist Robert Bullen) d. 252,804kL groundwater was extracted (refer to appendix 3). To date 252,804kL groundwater has been extracted. 	Compliant
2	<p>2. To minimise impacts to the Ghost bat, Northern quoll, Pilbara olive python and Pilbara leaf-nosed bat, the approval holder must comply with all requirements of the following conditions of the Western Australian Approval that are consequential for these species:</p> <ul style="list-style-type: none"> a. Condition 6 (Mining Exclusion Zone); and b. Condition 7 (Significant Species Management Plan). 	<ul style="list-style-type: none"> a. Refer to the map in appendix 1; no mining has occurred within the Mining Exclusion Zone. b. Notice in writing from the CEO of the Western Australian Department of Water and Environmental Regulation (DWER) that the Significant Species Management Plan satisfies the requirements of MS1150 conditions 7-2 and 7-3 was received on 16 September 2020 (refer to appendix 4) c. Number of exceedances of 70 decibels and 10 millimetres per second vibration limit as per (Ministerial Statement 1150 Condition 7.3: ZERO (Appendix 7). Note discussion of equipment issues in Appendix 5. 	Compliant
3	<p>The approval holder must implement the Western Australian Government approved Significant Species Management Plan.</p>	<p>Significant Species Management Plan (Rev 3.3) was implemented during the compliance period. Refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5) and Calidus (2022b) Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC</p>	Compliant

#	Condition	Evidence	Status
		2019/8584 compliance period February 2021 to February 2022 (Appendix 6)	
4	The approval holder must notify the Department within 2 business days of requesting any change to the conditions of the Western Australian Approval and within 5 business days of the conditions of the Western Australian Approval being updated or otherwise changed.	Post assessment changes to Ministerial statement 1150: Warrawoona Gold: <ul style="list-style-type: none"> • Increase Ore Processing of the Warrawoona Gold Project from 2.0 Mtpa to 2.5 Mtpa. Change to conditions approved under S45c on 1 April 2021. • Development of a new pit, increase tailings storage facility, inclusion of a solar farm, inclusion of a communications tower, and an increase in clearing and the development envelope to accommodate these changes. • Clearing no more than 398 ha of native vegetation within the 1,000 ha development envelope changed to clearing no more than 490 ha of native vegetation within the 1,124 ha development envelope. • Change to conditions approved under S45c on 14 September 2021. The Department was notified of the changes via email (appendix 4).	Compliant
5	In the event that monitoring, tests, surveys or investigations indicate exceedance of thresholds specified in the Significant Species Management Plan, the approval holder must provide the Department a copy of the report required by Condition 7-5(5) of the Western Australian Approval at the same time as the report is provided to the Western Australian Government.	Within the reporting period there has not been an exceedance of threshold. Refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5) and Calidus (2022b) Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 6)	Compliant
6	The approval holder must implement all contingency actions and management measures proposed in the report required by Condition 7-5(5) of the Western Australian Approval and within the timeframes recommended in that report.	N/A – As above there has not been an exceedance of threshold. Refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5) and Calidus (2022b) Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 6)	Compliant
7	To avoid and mitigate impacts to the Pilbara leaf-nosed bat and ghost bat the approval holder must implement the Action Plan for the Management of	The Action Plan for the Management of Significant Bats has been implemented. Refer to the document titled Warrawoona Gold Project	Compliant

#	Condition	Evidence	Status
	Significant Bats (APMSB) or a revised version approved by the Minister in accordance with condition 39-42, for the rest of the life of this approval.	Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5).	
8	A version of the APMSB that includes the Upper Control Limit and Lower Control Limit triggers and justifications for those triggers must be submitted to the Department before commencement of mining activities at the Klondyke Queen pit.	The APMSB with Upper Control Limit and Lower Control Limit triggers and justifications for those triggers was submitted to the Department on 25 June 2021(appendix 4).	Compliant
9	In the event that the monitoring undertaken as required in the approved APMSB demonstrates either: <ul style="list-style-type: none"> a. that the number of Pilbara leaf-nosed bat roosting within the development envelope has not returned to or remained at baseline roosting numbers; or b. that the microclimate conditions of the Bow Bells roost have not remained at or returned to baseline levels within five years after the cessation of mining activities, the approval holder must construct the artificial roost approved in accordance with the requirements of conditions .	The Pilbara leaf-nosed bat monitoring data did not breach the LCL for the Warrawoona colony during the compliance period. Refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5).	Compliant
10	Mine Closure Monitoring Strategy To avoid and mitigate impacts to the Pilbara leaf-nosed bat and Ghost bat the approval holder must submit a Mine Closure Monitoring Strategy to the Minister for approval.	The Mine Closure Monitoring Strategy is currently in development. During the compliance period mining activities did not occur below the groundwater level at the Klondyke Queen pit.	Compliant
11	The approval holder must not conduct mining activities below groundwater level at the Klondyke Queen pit until the Mine Closure Monitoring Strategy has been approved by the Minister. The approved Mine Closure Monitoring Strategy must be implemented.	During the reporting period mining activities did not occur below the groundwater level at the Klondyke Queen pit.	Compliant
12	The Mine Closure Monitoring Strategy must detail how the approval holder will undertake monitoring sufficient to demonstrate whether: <ul style="list-style-type: none"> a. without anthropogenic supplementation of its water level, the Bow Bells roost will maintain its pre-mining water levels continuously for 	During the compliance period mining activities did not occur below the groundwater level at the Klondyke Queen pit. The Mine Closure Monitoring Strategy is currently in development.	Compliant

#	Condition	Evidence	Status
	<p>five consecutive years following the cessation of mining activities at the Klondyke Queen pit;</p> <p>b. Pilbara leaf-nosed bat and/or ghost bat are drinking from the Klondyke Queen pit lake following the cessation of mining; and</p> <p>c. arsenic levels in the Pilbara leaf-nosed bat and ghost bat populations are elevated in the three months following any observed drinking from the Klondyke Queen pit lake.</p>		
13	<p>If the monitoring undertaken as required in the approved Mine Closure Monitoring Strategy shows that any bats have been drinking from the Klondyke Queen pit lake, the approval holder must implement the monitoring specified in the approved Mine Closure Monitoring Strategy to determine whether arsenic levels in the local Pilbara leaf-nosed bat and ghost bat populations are elevated within three months of when bats were recorded drinking from the Klondyke Queen pit lake.</p>	<p>During the compliance period mining activities did not occur below the groundwater level at the Klondyke Queen pit. The Mine Closure Monitoring Strategy is currently in development.</p>	Compliant
14	<p>If the monitoring undertaken as required in the approved Mine Closure Monitoring Strategy demonstrates that arsenic levels in the local Pilbara leaf-nosed bat and Ghost bat populations are elevated within three months of when bats were recorded drinking from the Klondyke Queen pit lake, the approval holder must, within 12- months of the first records of elevated arsenic levels in bats, fill the Klondyke Queen pit lake so that no standing ground water can accumulate in the Klondyke Queen pit.</p>	<p>During the compliance period mining activities did not occur below the groundwater level at the Klondyke Queen pit. The Mine Closure Monitoring Strategy is currently in development.</p>	Compliant
15	<p>Artificial Roost</p> <p>The approval holder must submit a design for an artificial roost to the Minister for approval before mining activities in the Klondyke Queen pit reach the groundwater level.</p>	<p>During the compliance period mining activities did not occur below the groundwater level at the Klondyke Queen pit. The artificial roost design is currently in development.</p>	Compliant
16	<p>The artificial roost design must include:</p> <p>a. the coordinates of the proposed location of the artificial roost within the development envelope;</p> <p>b. details of the features of the artificial roost that will make it suitable roosting habitat for the Pilbara leaf-nosed bat or ghost bat</p>	<p>During the compliance period mining activities did not occur below the groundwater level at the Klondyke Queen pit. The artificial roost design is currently in development.</p>	Compliant

#	Condition	Evidence	Status
	<p>(including how a microclimate sufficiently matching the baseline data of the microclimate recorded at the Klondyke Queen roost and Bow Bells roost will be provided); and</p> <p>c. the proposed dimensions, which must provide a volume equal to or greater than the impacted roost.</p>		
17	<p>If a significant impact to the Pilbara leaf-nosed bats or ghost bats resulting from mining activities occurs and is not otherwise offset, the approval holder must:</p> <p>a. construct an artificial roost in accordance with the approved artificial roost design; and</p> <p>b. complete construction of the artificial roost within six months of exceedance of the target threshold.</p>	<p>Significant impact to the Pilbara leaf-nosed bats or ghost bats resulting from mining activities did not occur during the compliance period. The Pilbara leaf-nosed bat monitoring data did not breach the LCL for the Warrawoona colony during the compliance period. Refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5).</p>	Compliant
18	<p>Within 12-months of completing construction of the artificial roost the approval holder must submit to the Department a report signed by an independent suitably qualified field ecologist that includes:</p> <p>a. verification, with detailed justification, that the artificial roost provides suitable roosting habitat for Pilbara leafed-nosed bat;</p> <p>b. at least 60 consecutive days of hourly records of the abiotic features inside the artificial roost, including, but not limited to, microclimate that demonstrates the artificial roost is suitable roosting habitat for Pilbara leafed-nosed bat; and</p> <p>c. details, with supporting evidence, of the activity of Pilbara leaf-nosed bat and ghost bat in the artificial roost over the same period.</p> <p>d. The cost of construction of the artificial roost is additional to, and must not be deducted from, contributions to offset funds intended to offset the residual significant impacts to the ghost bat or Pilbara leaf-nosed bat from clearing.</p>	<p>During the compliance period mining activities did not occur below the groundwater level at the Klondyke Queen pit. The artificial roost design is currently in development.</p>	Compliant

#	Condition	Evidence	Status
19	<p>Offsets</p> <p>To compensate for the residual significant impacts of clearing of up to 465 ha of ghost bat, northern quoll, Pilbara olive python and Pilbara leaf-nosed bat habitat, the approval holder must comply with conditions 20-25 below.</p>		Compliant
20	<p>The approval holder must contribute to the Pilbara Environmental Offsets Fund (PEOF). In making the contribution to the PEOF, the approval holder must:</p> <ul style="list-style-type: none"> a. contribute funds towards an offset activity or offset activities that: <ul style="list-style-type: none"> i. is intended to reduce the rate of decline of the ghost bat, northern quoll, Pilbara olive python and Pilbara leaf-nosed bat species; ii. is intended to ensure that a viable population of ghost bat, northern quoll, Pilbara olive python and Pilbara leaf-nosed bat species remains in the Pilbara bioregion; and iii. has specified outcomes and performance indicators; timeframes and milestones for their achievement; sufficient monitoring to detect achievement of performance indicators, milestones and the outcomes; and regular reporting to the approval holder of the outcomes of the monitoring. b. make an annual payment of \$1,542 to the PEOF by 30 September for each hectare of ghost bat, northern quoll, Pilbara olive python and Pilbara leaf-nosed bat habitat cleared, based on evidence of the actual clearing footprint from the date of commencement of the impact to the next 30 June, and then annually during each subsequent 12-month period ending 30 June. All payments must be exclusive of GST and increased in accordance with the CPI from 1 July 2020; c. as an advance payment, prior to commencement of the impact, contribute \$100,000 to the PEOF toward achieving the outcomes set out in condition 20.a. of this approval. This advanced payment 	<p>Calidus Resources Limited made a \$100,000 contribution to the PEOF on the 24 March 2021 (Appendix 4)</p> <p>The annual delivery agent report as per condition was due 27 February 2022 but was unable to be compiled due to PEOF factors beyond Calidus' control. The Department has been notified of this issue and Calidus continues to communicate with state and federal PEOF contacts (Appendix 4).</p>	Compliant

#	Condition	Evidence	Status
	<p>is not additional to the annual payments required by condition 20.b.</p> <p>d. submit evidence of each payment made under condition 20.b and 20.c. to the Department within 40 business days of the date of the payment;</p> <p>e. unless otherwise agreed to by the Minister in writing, submit an annual delivery agent report(s) to the Department for each PEOF offset activity that consistent with condition 20(a), funds have been contributed towards. The approval holder must submit the annual delivery agent report(s) every 12-months from the date of the advanced payment required by condition 9(c), or as otherwise agreed to in writing by the Minister.</p> <p>f. write to the Minister, within 10 business days of being aware or having concerns, providing details, that the offset outcomes specified for the PEOF project(s) may not be achieved; and</p> <p>g. on completion of clearing, submit to the Department an impact reconciliation report verified by an independent person.</p>		
21	If the Minister is reasonably satisfied that there has been, or there is probably going to be, a failure, the Minister may write to the approval holder asking it to provide evidence about whether failure has occurred or is likely to occur and nominating a deadline by which this must be provided.	N/A	N/A
22	If, after considering any information provided by the approval holder by the deadline nominated by the Minister under condition 21 and any other information available to the Minister, the Minister is reasonably satisfied that there has been a failure, the Minister will notify the approval holder of the failure.	N/A	N/A
23	The approval holder must submit for the Minister’s approval, within 4 months of being notified by the Minister of a failure, a draft Offset Strategy consistent with the principles of the Environmental Offsets Policy. The approval holder must implement the approved Offset Strategy. The approval holder must commence implementation of the approved Offset Strategy	N/A	N/A

#	Condition	Evidence	Status
	within 2 months of the approval of the draft Offset Strategy by the Minister in writing, or another time as agreed in writing by the Minister.		
24	<p>The draft Offset Strategy to be provided for the Minister’s approval at condition 23, must be a framework for how the residual significant impacts to the ghost bat, northern quoll, Pilbara olive python, or Pilbara leaf-nosed bat will be offset and must detail:</p> <ul style="list-style-type: none"> a. how the strategy will address the outcomes specified under condition 20.a., including the extent to which the outcomes have been addressed prior to any failure; b. how it accounts for relevant approved conservation advices, recovery plans and threat abatement plans; c. the party to be responsible for implementing the proposed offset; d. the location and nature of the proposed offset; e. detailed objectives, outcomes, and timeframes for their achievement; f. budget; g. performance and completion criteria for evaluating conservation or research outcomes; h. has project monitoring (with indicators and measures) that demonstrates achievement of the outcomes, reporting on agreed outputs/offset activities and includes evaluation; i. a description of the potential risks to the successful implementation of each proposed offset (including but not limited to environmental, administrative, financial, and governance risks); j. a description of the measures that will be implemented to mitigate risk associated with each proposed offset and a description of the contingency measures that will be implemented if performance or completion criteria are not met; k. processes to adaptively manage the proposed offset; . 	N/A	N/A

#	Condition	Evidence	Status
	<ul style="list-style-type: none"> <li data-bbox="306 354 919 407">l. how the proposed offset is consistent with the Environmental Offsets Policy; and <li data-bbox="306 427 919 509">m. how the measures will be implemented as part of the Offsets Strategy to ensure they have no detrimental impact on any threatened species listed under the EPBC Act. 		
25	<p data-bbox="260 540 953 651">If the Minister considers that a draft Offset Strategy consistent with the outcomes specified at condition 24, has not been received within 4 months of the approval holder being notified by the Minister of a failure under condition 22, the Minister may notify the approval holder that:</p> <ul style="list-style-type: none"> <li data-bbox="306 670 961 753">a. the draft Offset Strategy does not adequately offset the impacts to the Ghost bat, Northern quoll, Pilbara olive python, or Pilbara leaf-nosed bat, and <li data-bbox="306 773 898 826">b. it must submit a draft Offset Strategy to the Minister that is suitable for approval. 	N/A	N/A
26	<p data-bbox="260 857 940 967">If, after 60 business days of receiving this notice, the approval holder does not submit a draft Offset Strategy to the Minister that is suitable for approval, the Minister may require the approval holder to do any of the following:</p> <ul style="list-style-type: none"> <li data-bbox="306 987 926 1040">a. cease any clearing of habitat for the Ghost bat, Northern quoll, Pilbara olive python, or Pilbara leaf-nosed bat; or <li data-bbox="306 1060 758 1086">b. cease taking the action or part of the action. <p data-bbox="260 1105 947 1182">Recommencement of clearing or the action or part of the action, can occur once the Minister agrees in writing that the requirements of condition 24 have been satisfied.</p>	N/A	N/A
27	<p data-bbox="260 1218 667 1243">Part B – Standard administrative conditions</p> <p data-bbox="260 1263 737 1289">Notification of date of commencement of the action</p> <p data-bbox="260 1308 926 1385">The approval holder must notify the Department in writing of the date of commencement of the action within 10 business days after the date of commencement of the action.</p>	The date of the commencement of the action was 27 February 2021, AWE was notified via an email exchange on 25 March 2021 (Appendix 4) .	Compliant

#	Condition	Evidence	Status
28	If the commencement of the action does not occur within 5 years from the date of this approval, then the approval holder must not commence the action without the prior written agreement of the Minister.	The date of the commencement of the action was 27 February 2021	Compliant
29	Compliance records The approval holder must maintain accurate and complete compliance records.	This document, Calidus record system <i>"InControl"</i> Refer to the documents titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5) and Calidus (2022b) Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 6)	Compliant
30	If the Department makes a request in writing, the approval holder must provide electronic copies of compliance records to the Department within the timeframe specified in the request. Note: Compliance records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the Department's website or through the general media.	N/A	N/A
31	Submission and publication of plans 31. The approval holder must: a. submit plans electronically to the Department; b. unless otherwise agreed to in writing by the Minister, publish each plan on the website within 20 business days of the date; i. of this approval, if the version of the plan to be implemented is specified in these conditions; or ii. that the plan is submitted to the Minister or the Department if the plan does not require the approval of the Minister but was not finalised before the date of this approval; or	The following plans are available on the Calidus Resources website : https://www.calidus.com.au/ <ul style="list-style-type: none">• the Significant Species Management Plan (SSMP) (Rev 3.3)• Action Plan for the Management of Significant Bats (APMSB) (Rev 2)	Compliant

#	Condition	Evidence	Status
	<ul style="list-style-type: none"> iii. that the plan was approved by the Minister in writing, if the plan requires the approval of the Minister; c. exclude or redact sensitive ecological data from plans that are to be published on the website or provided to a member of the public; and d. keep plans published on the website until the end date of this approval. 		
32	<p>The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under conditions of this approval, is prepared in accordance with the Department’s Guidelines for biological survey and mapped data (2018) and submitted electronically in accordance with the requirements of the Significant Species Management plan.</p>	<p>Monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under conditions of this approval has been prepared in accordance with the Department’s Guidelines for biological survey and mapped data (2018) and has been submitted electronically to the in accordance with the requirements of the Significant Species Management plan.</p> <p>Refer to the document titled Warrawoona Gold Project Significant Bat Calidus (2022a) Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5) and Calidus (2022b) Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 6).</p> <p>Note that the significant bat monitoring data and the Northern quoll monitoring data is appended to Calidus (2022a and 2022b), the raw data files utilised to produce the bat activity charts has not been appended due to volume of data generated by permanent SM4 recorders.</p>	Compliant
33	<p>Annual compliance reporting</p> <p>The approval holder must prepare a compliance report for each 12- month period following the date of commencement of the action, or otherwise as agreed in writing by the Minister. The approval holder must:</p> <ul style="list-style-type: none"> a. publish each compliance report on the website within 60 business days following the relevant 12-month period; b. notify the Department by email that a compliance report has been published on the website and provide the weblink for the compliance report within five business days of the date of 	<p>The following compliance report is available on the Calidus Resources website : Annual EPBC Compliance Report February 2021 - 2022 https://www.calidus.com.au/</p> <p>The documents:</p> <p>Calidus (2022a) Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 and</p>	Compliant

#	Condition	Evidence	Status
	<p>publication. This notification must include documentary evidence of the date of publication of the compliance report;</p> <ul style="list-style-type: none"> c. keep all compliance reports publicly available on the website until this approval expires; d. exclude or redact sensitive ecological data from compliance reports published on the website; and e. where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the Department within 5 business days of publication. <p>Note: Compliance reports may be published on the Department’s website.</p>	<p>Calidus (2022b) Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022</p> <p>Contain sensitive ecological data and have been excluded from the version published, but have been submitted to the Commonwealth Department of Agriculture, Water and the Environment (AWE).</p>	
34	<p>Reporting non-compliance</p> <p>The approval holder must notify the Department in writing of any: incident; non-compliance with the conditions; or non-compliance with the commitments made in plans. The notification must be given as soon as practicable, and no later than two business days after becoming aware of the incident or non-compliance. The notification must specify:</p> <ul style="list-style-type: none"> a. any condition which is or may be in breach; b. a short description of the incident and/or non-compliance; and c. the location (including co-ordinates), date, and time of the incident and/or non-compliance. In the event the exact information cannot be provided, provide the best information available. 	<p>There have not been incidents of non-compliance with the conditions; or non-compliance with the commitments made in plans</p> <p>Refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5) and Calidus (2022b) Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 6)</p>	Compliant
35	<p>The approval holder must provide to the Department the details of any incident or non-compliance with the conditions or commitments made in plans as soon as practicable and no later than 10 business days after becoming aware of the incident or non-compliance, specifying:</p>	N/A	N/A

#	Condition	Evidence	Status
	<ul style="list-style-type: none"> a. any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future; b. the potential impacts of the incident or non-compliance; and c. the method and timing of any remedial action that will be undertaken by the approval holder. 		
36	<p>Independent audit</p> <p>The approval holder must ensure that independent audits of compliance with the conditions are conducted as requested in writing by the Minister.</p>	There were no requests for an independent audit during the reporting period.	N/A
37	<p>For each independent audit, the approval holder must:</p> <ul style="list-style-type: none"> a. provide the name and qualifications of the independent auditor and the draft audit criteria to the Department; b. only commence the independent audit once the audit criteria have been approved in writing by the Department; and c. submit an audit report to the Department within the timeframe specified in the approved audit criteria. 	There were no requests for an independent audit during the reporting period.	N/A
38	The approval holder must publish the audit report on the website within 10 business days of receiving the Department’s approval of the audit report and keep the audit report published on the website until the end date of this approval.	There were no requests for an independent audit during the reporting period.	N/A
39	<p>Revision of action management plans</p> <p>The approval holder may, at any time, apply to the Minister for a variation to an action management plan approved by the Minister under conditions 7, 10 and 23, or as subsequently revised in accordance with these conditions, by submitting an application in accordance with the requirements of section 143A of the EPBC Act.</p> <p>If the Minister approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of the previous action management plan.</p>	<p>There was not a revision of the Significant Species Management Plan (Rev 3.3) during the compliance period</p> <p>Calidus is working to revision 2 of the APMSB despite the definitions attached to approval of EPBC 2019/8584, referring to revision 1 dated 14/12/2020 and provided to the Department on 15/12/2020 as part of the finalised preliminary documentation, or as subsequently revised in accordance with the 2019/8584 conditions.</p> <p>Version 2 of the APMSB was submitted via email to the post approvals branch of AWE on the 25 June 2021 by Paul Brennan of Calidus Resources. The post approvals branch responded on the same date as follows: “The department</p>	Compliant

#	Condition	Evidence	Status
		confirms receipt of the attachments in the email below. The revisions made to the APMSB have been noted. The department considers that the revised APMSB submitted below does not require Minister approval. No further action is required at this point” (Refer to Appendix 4.)	
40	The approval holder may choose to revise an action management plan approved by the Minister under conditions 7, 10 and 23, or as subsequently revised in accordance with these conditions, without submitting it for approval under section 143A of the EPBC Act, if the taking of the action in accordance with the RAMP would not be likely to have a new or increased impact.	See above	Compliant
41	<p>If the approval holder makes the choice under Condition 40 to revise an action management plan without submitting it for approval, the approval holder must:</p> <ul style="list-style-type: none"> a. notify the Department in writing that the approved action management plan has been revised and provide the Department with: <ul style="list-style-type: none"> i. an electronic copy of the RAMP; ii. an electronic copy of the RAMP marked up with track changes to show the differences between the approved action management plan and the RAMP; iii. an explanation of the differences between the approved action management plan and the RAMP; iv. the reasons the approval holder considers that taking the action in accordance with the RAMP would not be likely to have a new or increased impact; and v. written notice of the date on which the approval holder will implement the RAMP (RAMP implementation date), being b. at least 20 business days after the date of providing notice of the revision of the action management plan, or a date agreed to in writing with the Department. 	See above	

#	Condition	Evidence	Status
	<p>c. subject to Condition 43, implement the RAMP from the RAMP implementation date.</p>		
42	<p>The approval holder may revoke their choice to implement a RAMP under Condition 40 at any time by giving written notice to the Department. If the approval holder revokes the choice under Condition 40, the approval holder must implement the action management plan in force immediately prior to the revision undertaken under Condition 40.</p>	N/A	N/A
43	<p>If the Minister gives a notice to the approval holder that the Minister is satisfied that the taking of the action in accordance with the RAMP would be likely to have a new or increased impact, then:</p> <ul style="list-style-type: none"> a. Condition 40 does not apply, or ceases to apply, in relation to the RAMP; and b. the approval holder must implement the action management plan specified by the Minister in the notice. 	N//A	N/A
44	<p>At the time of giving the notice under Condition 43, the Minister may also notify that for a specified period of time, Condition 40 does not apply for one or more RAMPs.</p>	N/A	N/A
45	<p>Completion of the action</p> <p>Within 20 business days after whichever is the earlier of:</p> <ul style="list-style-type: none"> • the completion of the action, or • 60 business days before the end date of the period for which this approval has effect, <p>the approval holder must notify the Department in writing and provide completion data.</p> <p>If the completion of the action is unlikely to occur before the end date of the period for which the approval has effect, the approval holder must submit to the Department, before the end date of the period for which the approval has effect, a request, in accordance with the requirements of section 145C of the EPBC Act, to extend the period of effect of the approval.</p>	N/A	N/A

#	Condition	Evidence	Status
	<p>** As per the definitions attached to EPBC 2019/8584. Development envelope means the areas enclosed by solid yellow lines designated as ‘Future Development Envelope (1159ha)’ in Attachment 2 – Development Envelope. The Development Envelope includes the areas shown in Attachment 3 – Project Area that will be subject to clearing and mining activities, but does not include the 25 ha area that was subject to early works, bounded in blue and designated as ‘Early Works Footprint’ in Attachments 2 and 3 of the Variation of Conditions Attached To Approval Warrawoona Gold Project, Pilbara Region, WA (EPBC 2019/8584). Source: Variation of Conditions dated 2 August 2021.</p> <p>Change to MS1150 conditions approved under S45c on 14 September 2021. Clearing no more than 398 ha of native vegetation within the 1,000 ha development envelope changed to clearing no more than 490 ha of native vegetation within the 1,124 ha development envelope. The Department was notified of the changes via email (appendix 4).</p>		

Table 2-2: Implementation of the Significant Species Management Plan (Rev 3.3) (CRL-ENV-PLN-006-19)

#	Performance Objective	Targets	Evidence	Status
1	No unauthorised mining or clearing within the Mining Exclusion Zone	No clearing outside the Development Envelope	Map 1, appendix 1; no mining has occurred within the Mining Exclusion Zone.	Compliant
2	No unauthorised mining or clearing within the Klondyke Buffer Zone and Mining Exclusion Zone	No clearing outside the Development Envelope	Map 1, appendix 1; no unauthorised mining or clearing has occurred within the Klondyke Buffer Zone and Mining Exclusion Zone	Compliant
3	No unauthorised mining or clearing near Bow Bells South	No clearing outside the Development Envelope	Map 1, appendix 1;	Compliant
4	No road kill incidents of conservation significant fauna.	No incident reports of road kill incidents of conservation significant fauna.	No incident reports have been raised from occurrences of significant fauna injuries/deaths due to transport. Incidents are raised in the record system “InControl”	Compliant

#	Performance Objective	Targets	Evidence	Status
5	No more than 398.5 ha will be cleared within the Development Envelope.	No clearing of more than 398.5 ha. No clearing outside the Development Envelope.	Map 1, appendix 1	Compliant
6	Undertake Northern Quoll monitoring on an annual basis.	Monitoring conducted in accordance with methods specified in Appendix 7A and 7B of the SSMP.	Annual Northern quoll monitoring occurred during the compliance period. Calidus (2022b) Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 6).	Compliant
7	Minimise disturbance to Ghost bats as a result of the project.	No permanent abandonment of Klondyke Queen roost by Ghost bats as a result of the project	There has been no evidence of permanent abandonment of Klondyke Queen roost by Ghost bats as a result of the project during the compliance period. Refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5)	Compliant
8	Minimise disturbance to Pilbara Leaf-nosed Bats as a result of the project.	No abandonment of Bow Bells South roost by Pilbara Leaf-nosed Bats as a result of the project. Average humidity records are not to fall below a percentage as determined from baseline monitoring (Appendix 6 - SSMP).	There has been no evidence of abandonment of Bow Bells South roost by Pilbara Leaf-nosed Bats as a result of the project during the compliance period. Refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5)	Compliant

#	Performance Objective	Targets	Evidence	Status
			Mining below the water table did not occur during the compliance period, consequently, baseline humidity LCLs have not yet been set.	
9	Undertake Pilbara leaf-nosed and Ghost bat monitoring on a continuous basis during preconstruction, life of mine through to closure	Monitoring is undertaken as per Standard Operating Procedures developed by a suitably qualified Ecologist utilising a combination of Bat Recorder and video recording at Bow Bells South, Criterion, Dawson City, Klondyke Boulder, Klondyke Queen, Mullins adit), two reference sites (Comet and Trump), and impact sites (such as TSF). Upper and Lower Control (UCL and LCL) are in development and are currently referred to as Draft Upper and Lower Control Limits (UCL and LCL). Prior to commencement of mining operation, UCL and LCLs will be finalised and , call numbers for each site will be compared to level 1, 2 and 3 trigger values being long-term UCL/LCL, mean +/- 2sd and +/- 3sd respectively (refer to Appendix 8B - SSMP)	Bat monitoring occurred during the compliance period, summarised in Appendix 5. Upper and Lower Control (UCL and LCL) have been set (Appendix 5).	Compliant
10	Undertake research on Pilbara leaf-nosed and Ghost bat utilisation of Open Pit Waters – using Copenhagen	Bats recorded at Copenhagen over different time period especially post dry season.	Copenhagen has a permanent SM4 recording device (appendix 5)	Compliant
11	Minimise likelihood of Cyanide poisoning to Significant Fauna as a result of the project.	CNWAD monitoring as per the TSF and Cyanide Management Procedure (CRL-ENV-PRO-019-19) As per TSF and cyanide management protocols, fauna monitoring at the TSF will occur twice a day to observe and record wildlife usage. One patrol will be	The tailings storage facility was not commissioned during the compliance period.	N/A

#	Performance Objective	Targets	Evidence	Status
		conducted after dawn and the other in late afternoon		
12	Minimise likelihood of tailings entrapment to Significant Fauna as a result of the TSF	As per TSF and cyanide management procedures (CRL-ENV-PRO-019-19), fauna monitoring at the TSF will occur twice a day to observe and record wildlife usage. One patrol will be conducted after dawn and the other in late afternoon	The tailings storage facility was not commissioned during the compliance period.	N/A
13	Minimise likelihood of arsenic poisoning to Significant Fauna as a result of the project.	Soluble Arsenic monitoring as per the Metalliferous Drainage Management Procedure (CRL-ENV-PRO-022-1919) Research using existing Copenhagen Pit	Soluble arsenic monitoring is occurring No incidences recorded in "InControl"	Compliant
14	Effective waste management procedures.	No significant increase to records of feral animals within camp and administrative facilities (due to poor waste management).	No domestic waste incidences recorded in "InControl"	Compliant
15	Successful implementation of the fire prevention and control management strategy.	No Project-related fires.	There have been no project related fires. There were several proximal wildfires during the compliance period, originating from off site. Fire breaks have been constructed around the site and there is a Bush Fire Management Plan in development (endorsement and consultation with DFES and other stakeholders to occur) which will address fire risk management. procedure in place.	Compliant

#	Performance Objective	Targets	Evidence	Status
16	Effective weed control.	No new species of Declared weeds or WONS found within the Project area. No significant percentage increase in weed coverage over the Project area as compared to the surrounding pastoral station.	No significant increase in infestations have been noted to date or recorded "InControl"	Compliant
17	Implement Feral Fauna Control Program.	No significant increase in feral fauna numbers during annual monitoring periods.	Cats recorded Klondyke, however this is not regarded as a significant increase in feral fauna because cats were observed during baseline surveys and evidence of cats at Klondyke occurred prior to the commencement date. A Feral Fauna Control Program is occurring	Compliant
18	Manage the proposed Klondyke Underground at closure so that the underground tunnels are conducive to Pilbara leaf-nose bat and Ghost bat roosting.	Klondyke Underground is planned from the beginning of underground development with the endpoint of developing the workings at closure into an artificial roost that can be used by Pilbara leaf-nose Bat and ghost Bat. Access to Klondyke Underground is restricted so that the underground tunnels are safe for Pilbara leaf-nosed bat and Ghost bats to inhabit. Klondyke Underground Significant Bat Closure Strategy is developed in consultation with a suitably qualified Ecologist 12 months prior to planned completion of operations.	The Klondyke Underground Significant Bat Closure Strategy is under development.	N/A

#	Performance Objective	Targets	Evidence	Status
		Klondyke Underground Closure Bat Strategy is implemented		

Table 2-3: Implementation of the Action Plan for the Management of Significant Bats (APMSB)

Number	Trigger and threshold	Monitoring and Targets	Evidence	Status
Outcome: Minimise disturbance to Pilbara Leaf-nosed bats as a result of the project.				
Target: No abandonment of Bow Bells South roost by Pilbara Leaf-nosed bats as a result of the project.				
Activity: Dewatering				
1.	<p>Trigger Criteria:</p> <p><u>Humidity</u></p> <p>Percentage humidity records at Bow Bells South workings are not to fall below the baseline average (to be set prior to Klondyke Open pit dewatering activities commencing using baseline data collected up until that time)</p> <p><u>Groundwater Drawdown</u></p> <p>Modelling indicates drawdown cone of depression is approaching the Bow Bells South workings (modelling indicates will not be impacted until Year 4 from</p>	<p>Humidity levels in the Klondyke Queen and Bow Bells South workings (continuous monitoring via HOBO units)</p> <p>Permanent echolocation call detectors (continuous near real time monitoring via SM4 units) recording Pilbara leaf-nosed bat and Ghost bat activity at Bow Bells South and Klondyke Queen. Interpretation by Calidus consultant Ecologist.</p> <p>Annual regional survey count conducted to confirm the entire colony is at Bow Bells South and Klondyke Queen and not roosting elsewhere.</p> <p>Annual Infra-Red manual count (census) to calibrate SM4 data</p>	<p>Microclimate and Significant Bat Activity Monitoring: refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5)</p> <p>Mining below the water table did not occur during the compliance period, consequently, baseline humidity LCLs have not yet been set.</p> <p>Groundwater: Appendix 3 and Appendix 5</p> <p>The Ground water model is currently being recalibrated.</p>	Compliant

Number	Trigger and threshold	Monitoring and Targets	Evidence	Status
	<p>commencement of dewatering, if at all) Monitoring bores to be installed between Klondyke Open Pit and Bow Bells South</p> <p><u>Pilbara Leaf-nosed bat Activity</u></p> <p>Bow Bells Pilbara Leaf-nosed bat Activity long-term Lower Control Limit (as per Table 8.1.1)</p>	<p>Quarterly Groundwater standing water levels at Klondyke Queen shaft, monitoring bores at Klondyke and the workings at Bow Bells South (quarterly monitoring via manual dipping once dewatering has commenced)</p> <p>Ground water model recalibrated each year. Model does not take into account seasonal recharge from episodic events such as cyclones (Hydrogeological model)</p>		
Outcome: Minimise disturbance to Klondyke Queen historic workings as a result of the project.				
Performance Indicator: No permanent damage to Klondyke Queen historic workings as a result of the project. Activity: Blasting				
2.	<p>Trigger Criteria:</p> <p><u>Blast vibration Monitoring</u></p> <p>Vibration limit of greater than 10mms⁻¹ is recorded on the blast vibration monitor at Klondyke Queen</p>	<p><u>Ghost bat Monitoring</u></p> <ol style="list-style-type: none"> 1. Permanent echolocation call detectors recording Ghost bat activity at Klondyke Queen 2. Visual Roost Monitoring during the blast by IR video to see if there is a Ghost bat response during blasting (to be completed in early stages of mining where blasting will commence 1,000m from Klondyke Queen or as advised by ecologist) <p><u>Blast Monitoring</u></p> <p>Permanent Blast monitoring station at the Klondyke Queen to monitor:</p>	<p>Noise and Vibration Monitoring and Significant Bat Activity Monitoring: refer to the document titled Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Appendix 5) and Appendix 7 (this document).</p> <p>Structural Monitoring – internal records only as blasting was >500m from the Klondyke Queen roost during the compliance period. No structural incidences recorded in “InControl”</p> <p>Number of exceedances of 70 decibels and 10 millimetres per second vibration limit as</p>	<p>Compliant</p> <p>Note discussion of equipment issues in Appendix 5.</p>

Number	Trigger and threshold	Monitoring and Targets	Evidence	Status
		<p>(i). peak particle velocity (PPV – mms⁻¹)</p> <p>(ii). wave form trace; and</p> <p>(iii). air overpressure peak</p> <p><u>Meteorological Monitoring</u></p> <p>To ensure the blast is fired when the prevailing winds are blowing away from the Klondyke Queen</p> <ul style="list-style-type: none"> • Temperature • Wind Speed and Direction <p><u>Structural Monitoring</u></p> <p>Klondyke Queen inspected after all blasts within 500m</p> <p><u>Noise Monitoring</u></p> <p>To ensure noise levels within the roost are below 70dB</p>	<p>per (Ministerial Statement 1150 Condition 7.3 and EPBC 2019/8584, Condition 2: ZERO</p>	







3 Supporting Documentation

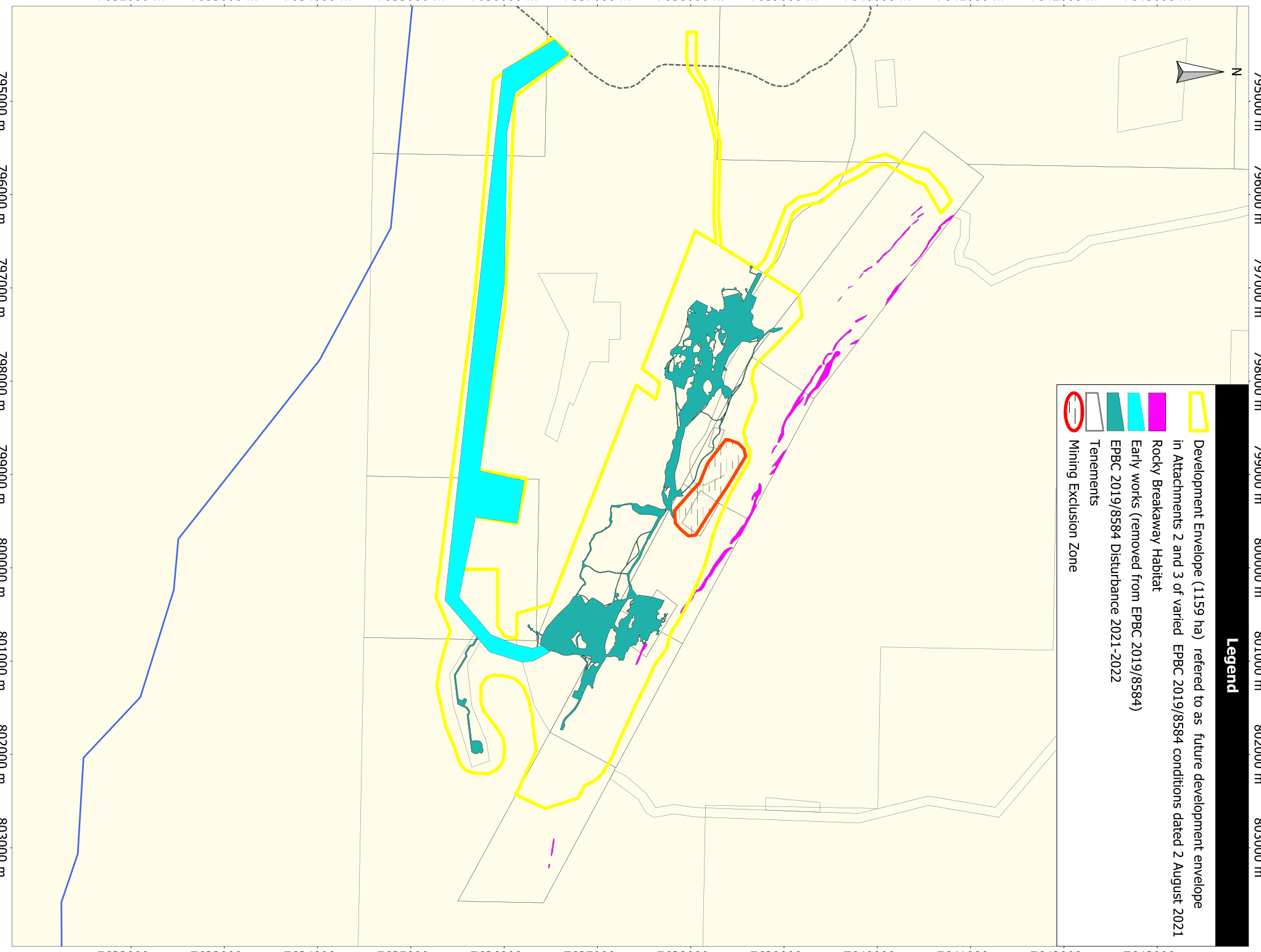
Table 3-1: List of Appendices

Appendix Number	Title	Description
1	Clearing Warrawoona Gold Project Compliance Period, 2021 – 2022	Map of clearing conducted for the 2021 – 2022 compliance period
2	Detail of the removal of six historical workings: Pit historical mine clearance – April 2021 (Bullen, 2021a) Pit historical mine clearance – St George, December 2021 (Bullen, 2021b)	Description of the clearing and sealing of six historical underground workings from the planned Warrawoona open pit area as certified by Robert Bullen, Managing Director and Principal Ecologist Bat Call WA. Procedure followed was Calidus (2019). Underground workings clearance procedure: Significant bats. CRL-ENV-PRO024-19, Rev 1 dated 14 Nov 2019.
3	Groundwater Data	Summary of groundwater abstraction for the 2021 – 2022 compliance period
4	Regulatory Correspondence	Correspondence between Calidus Resources, and: the Commonwealth Department of Agriculture, Water and the Environment (AWE) Western Australian Department of Water and Environmental Regulation (DWER)
5	* Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Calidus 2022a)	Summary of actions conducted for the 2021 – 2022 compliance period. Contains Significant Bat monitoring reports.
6	*Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022 (Calidus 2022b)	Summary of actions conducted for the 2021 – 2022 compliance period. Contains Northern quoll monitoring reports.
7	Noise and Vibration Monitoring	Photographs of the blast monitors and data from the compliance period
<p>* Document not published to website as it contains Sensitive Ecological Data (as per Sensitive Ecological Data – Access and Management Policy V1.0, Department of the Environment, January 2016, https://www.environment.gov.au/system/files/resources/246e674a-feb1-4399-a678-be9f4b6a6800/files/sensitive-ecological-data-access-mgt-policy.pdf) including locational data of highly desirable, collectable or commercially valuable taxa. All documents identified above have been provided to the Department of Agriculture, Water and the Environment, in accordance with relevant reporting requirements</p>		

Appendix 1: Map – Clearing Warrawoona Gold Project Compliance Period, 2021 – 2022

Legend

-  Development Envelope (1159 ha) referred to as future development envelope in Attachments 2 and 3 of varied EPBC 2019/8584 conditions dated 2 August 2021
-  Rocky Breakaway Habitat
-  Early works (removed from EPBC 2019/8584)
-  EPBC 2019/8584 Disturbance 2021-2022
-  Tenements
-  Mining Exclusion Zone



Calidus Resources
Warrawoona Gold Project
EPBC 2019/8584



Original Size: A4
Scale: 1:150,000
Datum: MGA94 Zone 50

Map 1
Disturbance footprint 2021-2022
EPBC 2019/8584

Appendix 2: Detail of the removal of six historical workings

Bat Call WA Pty Ltd

ABN 26 146 117 839
ACN 146 117 839
T +61 8 9402 1987
E bullen2@bigpond.com

43 Murray Drive
Hillarys W.A.
6025
AUSTRALIA
29 April 2021

Tim Clarke
Cc Paul Brennan, Kate George

Calidus Resources Ltd,
Suite 12, 11 Ventnor Ave
West Perth
6005
Western Australia

Pit historical mine clearance – April 2021.

During 2021, Calidus Resources Ltd (Calidus) received approval to remove five abandoned workings from the planned Warrawoona pit under the Significant Species Management Plan (SSMP) for the project. The five are the Britannia, Cuban, Klondyke Queen 488, Koppes Reward and the St George 3. All five are listed as nocturnal refuges for the Pilbara leaf-nosed bat and either not used or night roosts for the Ghost bat with very low activity levels of both species being recorded during echolocation surveys. A sixth abandoned working, the St George, has been found to be a hazard to any bats potentially roosting within it stemming from a very high risk of damage during adjacent mining activities due to its proximity to the approved pit design and/or subsequent unplanned collapse. This working has also been categorised in the SSMP as a nocturnal refuge for the Pilbara leaf-nosed bat and a night roost for the Ghost bat with similar very low activity levels of both species being recorded.

During April 2021, the six workings were visited, inspected for presence of bats, and sealed in accordance with Calidus (2019).

In each case the working was visited approximately one hour after sunset to allow bats to depart for nightly foraging and the presence of any remaining bats was noted. Where bats were present, table 1, they were flushed using strong sounds and small projectiles. *Taphozous hilli* bats were observed present at two workings and were successfully flushed. No Ghost bats or Pilbara leaf-nosed bats were present at the workings. Once the working was confirmed to be clear of bats, it was sealed with bird netting using sizes significantly larger than the shaft or decline aperture. Bird netting does not entangle bats or birds that alight onto it. The netting perimeter was then sealed with rocks to ensure that bats could not re-enter the working, Plate 1. Subsequently, each of the five in-pit workings was then filled with spoil from the adjacent mullock heap, Plate 2. The sixth, St George was left sealed with netting, pending approval to refill it.

Mine	Easting	Northing	Number of Apertures sealed	Bats present at sunset plus one hour; successfully flushed	Working successfully sealed	Working successfully refilled
Britannia	800932	7637260	2	<i>Taphozous hillii</i>	Yes	Yes
Cuban	800767	7637335	3	None	Yes	Yes
Klondyke Queen 488	800270	7637670	1	None	Yes	Yes
Kopkes Reward	801126	7637174	4	None	Yes	Yes
St George 3	800720	7637622	3	None	Yes	Yes
St George	800634	7637689	4	<i>Taphozous hillii</i>	Yes	No



Plate 1. Example of a sealed working. St George 3 (upper) prior to refilling.



Plate 2. Example of a refilled working, Britannia.

I can certify that during the trip the five approved workings were successfully sealed and refilled and the sixth, the St George, was left sealed pending approval to refill it.

Yours sincerely

Robert Bullen
Managing Director and Principal Ecologist

Reference

Calidus (2019). Underground workings clearance procedure: Significant bats. CRL-ENV-PRO-024-19, rev 1 dated 14 Nov 2019.

Bat Call WA Pty Ltd

ABN 26 146 117 839
 ACN 146 117 839
 T +61 8 9402 1987
 E bullen2@bigpond.com

43 Murray Drive
 Hillarys W.A.
 6025
 AUSTRALIA

7 December 2021

Tim Clarke
 Cc Paul Brennan

Calidus Resources Ltd,
 Suite 12, 11 Ventnor Ave
 West Perth
 6005
 Western Australia

Pit historical mine clearance – St George, December 2021.

During 2021, Calidus Resources Ltd (Calidus) received approval to remove five abandoned workings from the planned Warrawoona pit under the Significant Species Management Plan (SSMP) for the project. The five are the Britannia, Cuban, Klondyke Queen 488, Kopkes Reward and the St George 3. These were sealed when clear of roosting bats and filled in April 2021. A sixth abandoned working, the St George, has been found to be a hazard to any bats potentially roosting within it stemming from a very high risk of damage during adjacent mining activities due to its proximity to the approved pit design and/or subsequent unplanned collapse. This working has been categorised in the SSMP as a nocturnal refuge for the Pilbara leaf-nosed bat and a night roost for the Ghost bat with very low activity levels of both species being recorded. It was sealed in April 2021 and has been approved subsequently for removal. Visits followed periodically to ensure that the sealing netting had remained in place and was in good condition.

During December 2021, St George was visited by Calidus' Environmental Officer, reinspected for presence of bats and the condition of the netting, i.e., no significant holes had developed that might allow bats to re-enter, and removed in accordance with Calidus (2019) under the supervision of that Officer.

The updated status of the six workings is given in the following Table.

Mine	Easting	Northing	Number of Apertures sealed	Bats present at sunset plus one hour; successfully flushed	Working successfully sealed	Working successfully refilled
Britannia	800932	7637260	2	<i>Taphozous hilli</i>	Yes	Yes April 2021

Warrawoona in-pit historical mine clearance – December 2021

Cuban	800767	7637335	3	None	Yes	Yes April 2021
Klondyke Queen 488	800270	7637670	1	None	Yes	Yes April 2021
Kopkes Reward	801126	7637174	4	None	Yes	Yes April 2021
St George 3	800720	7637622	3	None	Yes	Yes April 2021
St George	800634	7637689	4	<i>Taphozous hilli</i>	Yes	Yes Dec. 2021



Plate 1. Example of a sealed working. St George 3 (upper) prior to refilling.



Plate 2. St George refilled.

I can certify that during the April 2021 trip the five approved workings were successfully sealed and refilled and the sixth, the St George, was left sealed pending approval to refill it. St George was successfully refilled in December 2021. All activities were carried out without harm to any bats.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'R Bullen', is placed over a light blue rectangular background.

Robert Bullen
Managing Director and Principal Ecologist

Reference

Calidus (2019). Underground workings clearance procedure: Significant bats. CRL-ENV-PRO-024-19, rev 1 dated 14 Nov 2019.

Appendix 3: Groundwater Data

Standing water levels

Bore ID	Parameter	Oct-20	Jul-21	Nov-21	Dec-21	Jan 22	Feb 22	March 22	April 22
MB8 (Bow Bells)	SWL (mb ToC)		19.5	19.69	19.79		19.7	19.7	19.68
MB9 (Bow Bells)	SWL (mb ToC)		8.5	8.68	8.75			8.07	8.05
MB4 (KQ)	SWL (mb ToC)	18.11		18.03	18.03		18.05	18.05	17.95

Abstraction data

Bore ID	Units	27/02/	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Total
PB5 (Klondyke)	Meter Reading	2205	2318	10161	28877	47519	60326	76522	89123	100125	109571	118700	123707	130978	139015	
	kL		113	7843	18716	18642	12807	16196	12601	11002	9446	9129	5007	7271	8037	
PB6 (Margret's)	Meter Reading						0	2193	4400	5987	7212	8072	8072	8072	8072	
	kL							2193	2207	1587	1225	860	0	0	0	
PB8 (Klondyke West)	Meter Reading							0	7680	30165	54963	78574	84423	98859	107922	
	kL								7680	22485	24798	23611	5849	14436	9063	
Total	kL		113	7,843	18,716	18,642	12,807	18,389	22,488	35,074	35,469	33,600	10,856	21,707	17,100	252,804

Appendix 4: Regulatory Correspondence

Commencement Date

RE: EPBC 2019/8584 - Compliance with Conditions [SEC=OFFICIAL]



Paul Brennan <Paul@calidus.com.au>
To: EPBC Monitoring



Thu 25/03/2021 3:40 PM

Hi Michaela,

I will follow up with DWER/PEOF for a receipt.

The commencement of the Action was 27th Feb 2020.

Regards
Paul

From: EPBC Monitoring <EPBCMonitoring@awe.gov.au>
Sent: Thursday, 25 March 2021 12:48 PM
To: Paul Brennan <Paul@calidus.com.au>
Cc: EPBC Monitoring <EPBCMonitoring@environment.gov.au>
Subject: RE: EPBC 2019/8584 - Compliance with Conditions [SEC=OFFICIAL]

Good afternoon Paul,

Thank you for your email.

Please provide a receipt from the PEOF demonstrating that the payment has been received. Condition 20.d. requires evidence of payment to be provided to the Department. Evidence is defined in the approval as "dated and signed documentation from the relevant authority showing a payment has been made..."

In addition, in accordance with condition 27, please provide the date of commencement of the action.



Please provide a response to this email within 5 business days.






Kind regards,

Michaela Ballard
Compliance Monitoring Team
Environment Compliance Branch
Compliance Division
Department of Agriculture, Water and the Environment
GPO Box 858, CANBERRA ACT 2601

PEOFF Delivery Agent Report Correspondence

Re: Contribution to PEOF

 Clare Meredith <clare.meredith@dwer.wa.gov.au>
To:  Paul Brennan

  Reply  Reply All  Forward  
Thu 18/11/2021 3:08 PM

Hi Paul

Happy to catch up. We're working on having information about our projects publicly available for proponents.

I can tell you now though that we don't have any projects yet that relate specifically to MNES. We have flagged this with the Cwlth - that there would be a lag in proponents being able to report on projects in the short term while projects are established.

Happy discuss what you could provide though.

Kind regards
Clare

Get [Outlook for iOS](#)

From: Paul Brennan <Paul@calidus.com.au>
Sent: Thursday, November 18, 2021 11:10:46 AM
To: Clare Meredith <clare.meredith@dwer.wa.gov.au>
Cc: Troy Sinclair <Troy.Sinclair@dwer.wa.gov.au>; Liesl Rohl <liesl.rohl@dwer.wa.gov.au>
Subject: RE: Contribution to PEOF

Hi Clare,

Hope you are going well.

I was wondering of your availability for a call/meeting in the next couple of weeks to understand availability of reporting on PEOF projects.

As part of our compliance requirements to DAWE we are required to supply an "Annual Delivery Agent Report" in February if each year detailing the activities the PEOF funds have been contributed toward for the EPBC listed species – PGb, PLNb, Pilbara Olive Python and Northern Quoll. Please see condition 20 of the attached.

I have read the available PEOF publications on line, but can't find any reference to specific projects and associated reports.

Thank you.



Regards
Paul Brennan



Acknowledgment of Submission of APMSB (containing Pilbara leaf-nosed Bat and Ghost Bat LCLs)

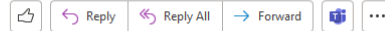
RE: EPBC Ref 2019/8584 - Compliance with Conditions [SEC=OFFICIAL]



Post Approval <PostApproval@awe.gov.au>

To:  Paul Brennan;  postapproval@awe.gov.au

Cc:  EPBC Monitoring;  Jeffrey Paul



Fri 25/06/2021 1:03 PM

Good afternoon Paul,

Thank you for your email.

The department confirms receipt of the attachments in the email below. The revisions made to the APMSB have been noted.

The department considers that the revised APMSB submitted below does not require Minister approval. No further action is required at this point.

Kind regards,

Post Approvals Section

Department of Agriculture, Water and the Environment
Environment Assessments (Vic, Tas) and Post Approvals Branch | Environment Approvals Division
John Gorton Building, Parkes Pl, Parkes ACT 2600
www.awe.gov.au



Australian Government

Department of Agriculture, Water and the Environment

The Department acknowledges the traditional owners of the country throughout Australia and their continuing connection to land, sea and community. We pay our respects to them and their cultures and their elders, past, present and emerging.

RE: EPBC Ref 2019/8584 - Requested change to Western Australian Approval

 Paul Brennan <Paul@calidus.com.au>
To:  'postapproval@awe.gov.au'
Cc:  'EPBC Monitoring';  Tim Clarke

 Letter from EPA CHAIR to Calidus - approval of 45C - 2021.pdf
164 KB

 Attachment 2 to Ministerial Statement 1150.pdf
340 KB

Good afternoon,

As per Condition 4 of the Warrawoona Gold Project Approval, Calidus advises that it has now received Western Australian approval for the amendment as outlined below.

The updated Ministerial Statement (MS) 1150 is as per the attached.

Calidus received approval for this variation from DAWE on the 2nd August 2021.

Regards
Paul Brennan

From: Paul Brennan
Sent: Monday, 12 April 2021 10:43 AM
To: postapproval@awe.gov.au
Cc: EPBC Monitoring <EPBCMonitoring@awe.gov.au>; Tim Clarke <t.clarke@calidus.com.au>
Subject: EPBC Ref 2019/8584 - Requested change to Western Australian Approval

Good morning,

As per Condition 4 of the Warrawoona Gold Project Approval, Calidus advises that it has applied to the EPA under Section 45C of the *Environmental Protection Act 1986* for an amendment to Ministerial Statement (MS) 1150.

Calidus proposes the following changes to the Warrawoona Gold Project:

1. Development of the Klondyke East deposit, located along strike of the current planned Open Pit at Klondyke;
2. Expansion of the TSF to accommodate an increase in the life of mine tails deposition;
3. The inclusion of a solar farm;
4. The inclusion of a communications tower footprint and
5. An extension of the development envelope to accommodate the above changes.

Regards
Paul Brennan



Our ref: DWERT 5679
Enquiries: Troy Sinclair, Ph 6364 6425
Email: troy.sinclair@dwer.wa.gov.au

Mr Paul Brennan
Chief Operating Officer
Calidus Resources Limited
Email: paul@calidus.com.au

Dear Mr Brennan

WARRAWOONA GOLD PROJECT - MINISTERIAL STATEMENT 1150 - SIGNIFICANT SPECIES MANAGEMENT PLAN - APPROVED

Thank you for your email of 11 September 2020 submitting the Significant Species Management Plan (CRL-ENV-PLN-006, Rev 3.3, September 2020) to the Department of Water and Environmental Regulation (DWER) for review. This Plan was reviewed by DWER on 11 September 2020.

I note the plan has been prepared to satisfy condition 7-1 of Ministerial Statement 1150 (MS 1150) which states:

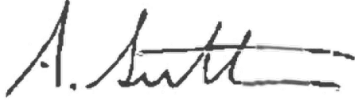
7-1 Prior to ground disturbing activities, unless otherwise agreed by the CEO, the proponent shall finalise and submit a revision of the Significant Species Management Plan (CRL-ENV-PLN-006-19 Rev 2, May 2020) in consultation with the agency responsible for the administration of the Biodiversity Conservation Act 2016 (being at the time of this Statement the Department of Biodiversity, Conservation and Attractions). The Significant Species Management Plan shall, when implemented, meet the following environmental objective:

- (1) *avoid where possible, and minimise direct and indirect impacts to significant fauna and their habitat, including, but not limited to:*
 - (a) *Pilbara leaf-nosed bat;*
 - (b) *ghost bat;*
 - (c) *Pilbara olive python; and*
 - (d) *northern quoll.*

I am satisfied with the preparation of the Significant Species Management Plan (CRL-ENV-PLN-006, Rev 3.3, September 2020) and consider the requirements of condition 7.1 of MS 1150 have been met.

Please note any changes to the management actions or targets of the Significant Species Management Plan (CRL-ENV-PLN-006, Rev 3.3, September 2020) would require the approval of DWER.

Yours sincerely

A handwritten signature in black ink, appearing to read 'A. Sutton', with a horizontal line extending to the right.

Anthony Sutton
EXECUTIVE DIRECTOR
EPA SERVICES

16 September 2020



Government of Western Australia
Department of Water and Environmental Regulation

RECEIPT

Locked Bag 10
Joondalup DC WA 6919

ABN: 28 420 443 065
Telephone: 08 6364 7000
Fax:
Email: Accounts.Receivable@dwer.wa.gov.au

Keras (Pilbara) Gold Pty Ltd
Suite 12,
11 Vantor Ave
West Perth WA 6005

Receipt No.: RR021482
Date: 24/03/2021
Debtor Id: 60794

Page : 1 of 1

<i>Date</i>	<i>Reference</i>	<i>Description</i>	<i>Amount</i>
05/03/2021	RI003177	Pilbara Environmental Offsets Fund	100,000.00
Total Amount Received AUD:			100,000.00

Appendix 5: Warrawoona Gold Project Significant Bat Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022.

Appendix 6: Warrawoona Gold Project Northern Quoll Monitoring Summary for the EPBC 2019/8584 compliance period February 2021 to February 2022

Appendix 7: Noise and Vibration Monitoring



Weather station at Klondyke Queen



Permanent blast monitoring station at Klondyke Queen

Noise and vibration data for the compliance period

PIT	Blast Date			Vibration Peak - KQ	Peak Noise dB(a) Lmax*	UM18383
	D	M	Y			
Cuban	14	MAR	2021	No Data		No data
Cuban	19	AUG	2021	0.33 VPPV mm/s	49.4	0.48 VPPV mm/s
Cuban	3	OCT	2021	0.31 VPPV mm/s	54.3	0.49 VPPV mm/s
Cuban and TSF	3	NOV	2021	0.36 VPPV mm/s	48.9	No data
Cuban	17	NOV	2021	1.2 VPPV mm/s	55.2	2.68 VPPV mm/s
Cuban	14	DEC	2021	0.24 VPPV mm/s	30	No data
Cuban	20	DEC	2021	0.36 VPPV mm/s	30	0.9 VPPV mm/s
Cuban	14	JAN	2022	telemetry / server failure		No data
Cuban	23	JAN	2022	telemetry / server failure		0.47 mm/s (Tran)
Cuban	9	FEB	2022	telemetry / server failure		1 mm/s (VPPV)
Cuban	18	FEB	2022	telemetry / server failure		0.5 mm/s (VPPV)
Cuban	19	FEB	2022	telemetry / server failure		0.27 mm/s (VPPV)
Cuban	21	FEB	2022	telemetry / server failure		0.38 mm/s (Tran)
Cuban	24	FEB	2022	telemetry / server failure		0.28 mm/s (VPPV)

*Noise control limit is based on predicted noise levels of 69-71 dB(A) at the surface and 55 dB(A) within the Klondyke Queen roost, due to the location of the roost some 10 metres below the ground and away from the adits entrance



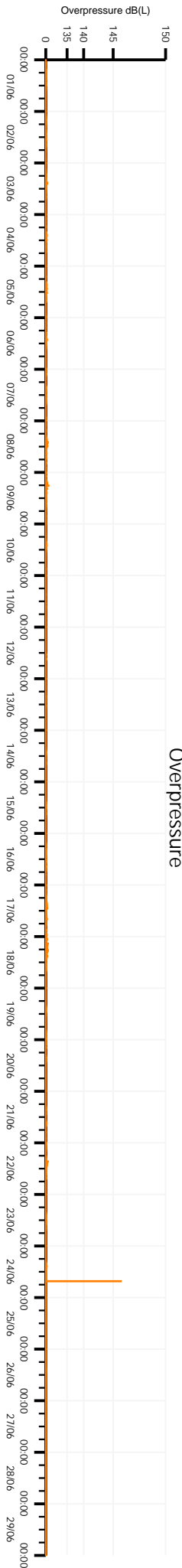
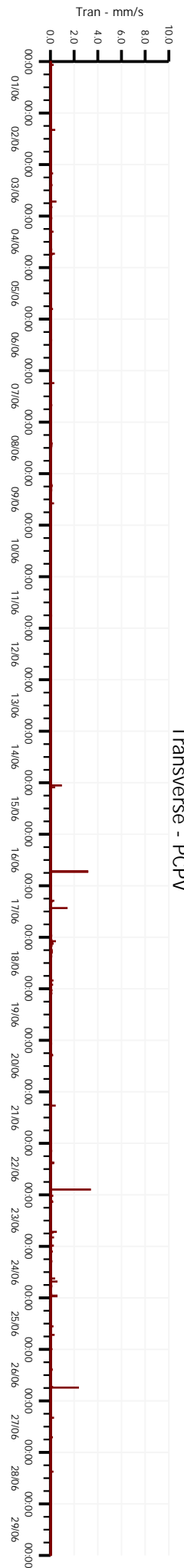
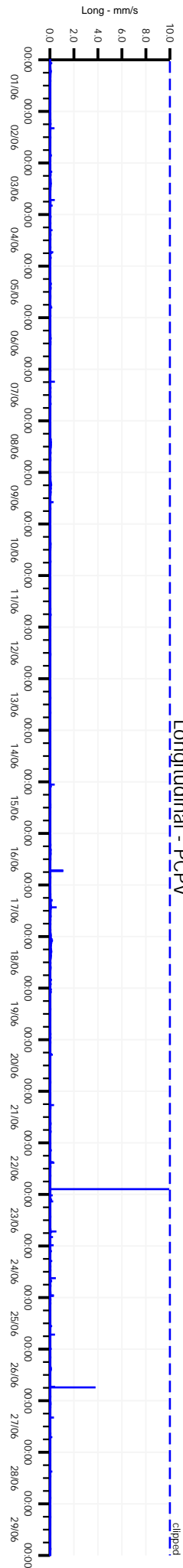
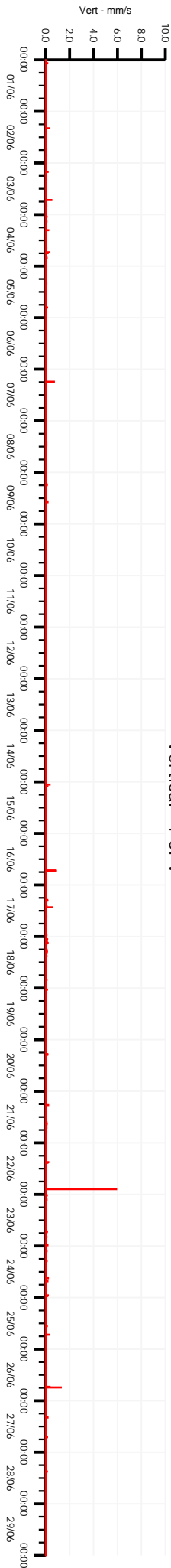
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Start
End
Monitoring Location

Quick report
Warrawoona Peak
1/06/2021
30/06/2021
Klondyke Queen - Warrawoona

Monitoring Results

PPV _r max	11.96 mm/s
PPV _v max (99.9%)	0.18 mm/s
PPV _v max (99.8%)	0.13 mm/s
PPV _v max (99.5%)	0.08 mm/s
PPV _v max (99.0%)	0.07 mm/s





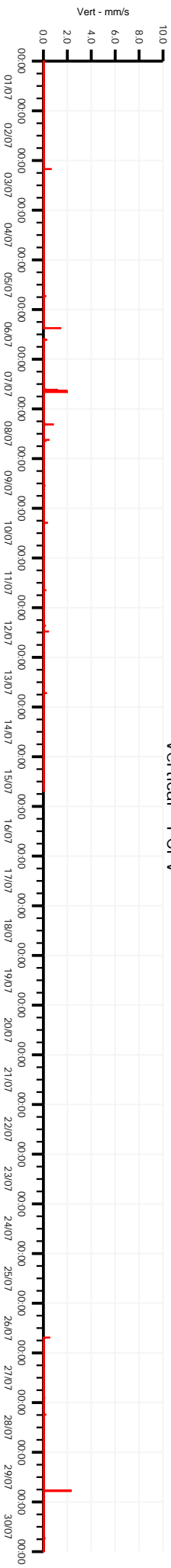
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Start
End
Monitoring Location

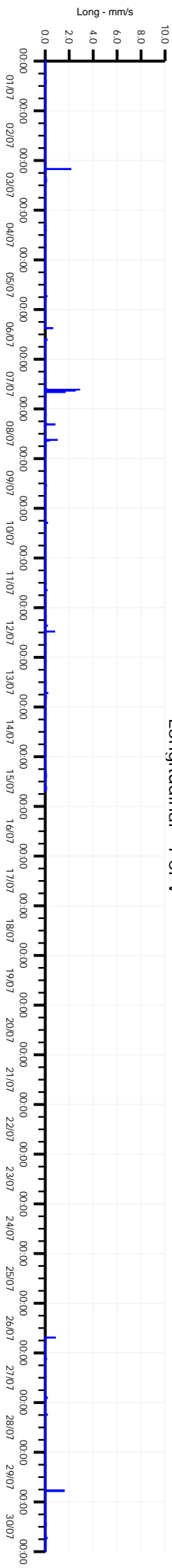
Quick report
Warrawoona Peak
1/07/2021
31/07/2021
Klondyke Queen - Warrawoona

Monitoring Results

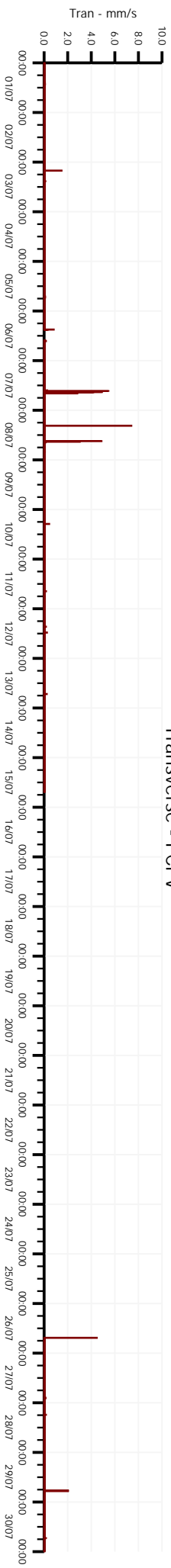
PPV _{max}	7.42 mm/s
PPV _{max} (99.9%)	0.35 mm/s
PPV _{max} (99.8%)	0.12 mm/s
PPV _{max} (99.5%)	0.06 mm/s
PPV _{max} (99.0%)	0.05 mm/s



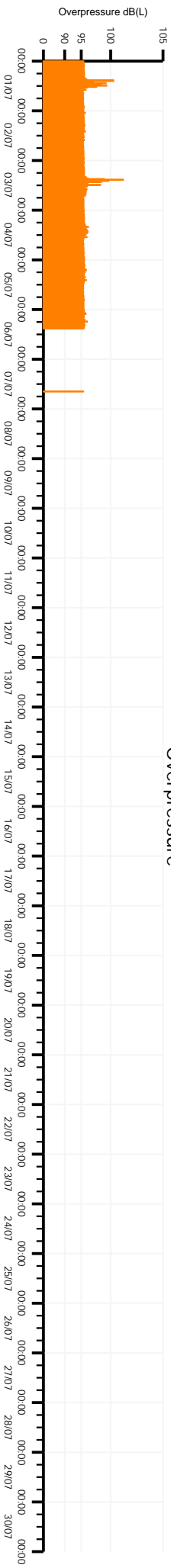
Vertical - PCPV



Longitudinal - PCPV



Transverse - PCPV



Overpressure



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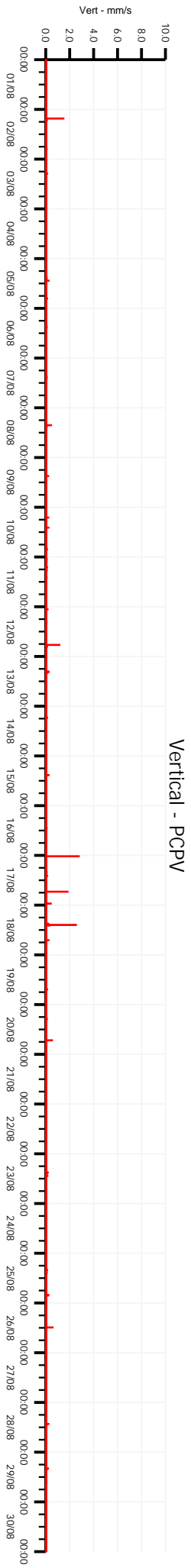
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Start
End
Monitoring Location

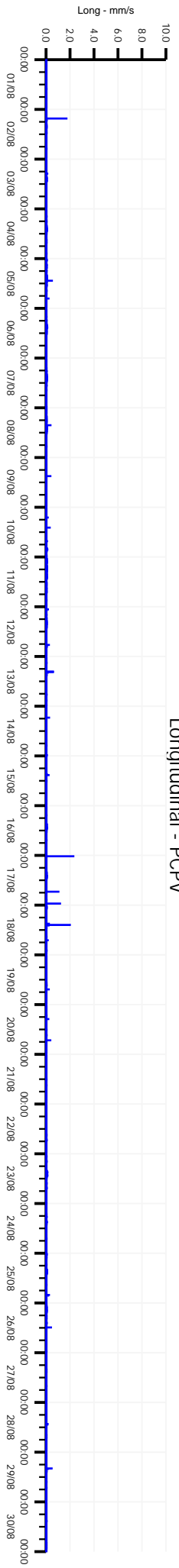
Quick report
Warrawoona Peak
1/08/2021
31/08/2021
Klondyke Queen - Warrawoona

Monitoring Results

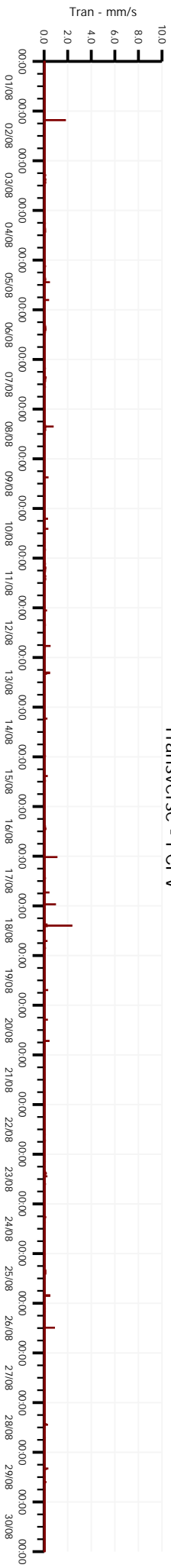
PPV/max	2.78 mm/s
PPV/max (99.9%)	0.15 mm/s
PPV/max (99.8%)	0.10 mm/s
PPV/max (99.5%)	0.09 mm/s
PPV/max (99.0%)	0.07 mm/s



Vertical - PCPV



Longitudinal - PCPV



Transverse - PCPV



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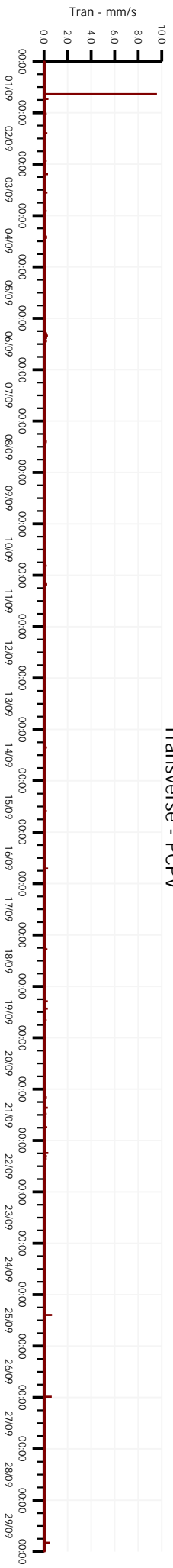
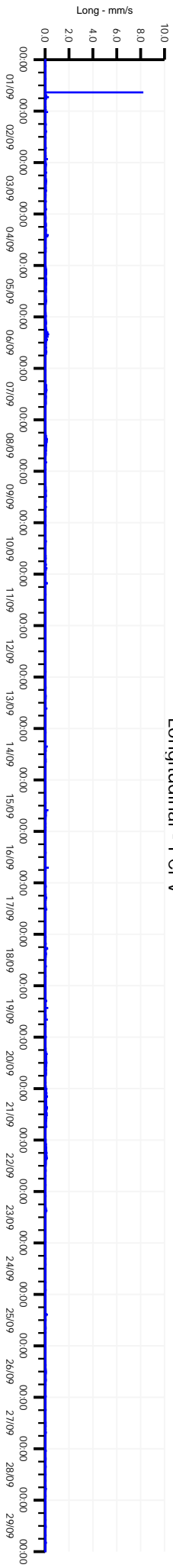
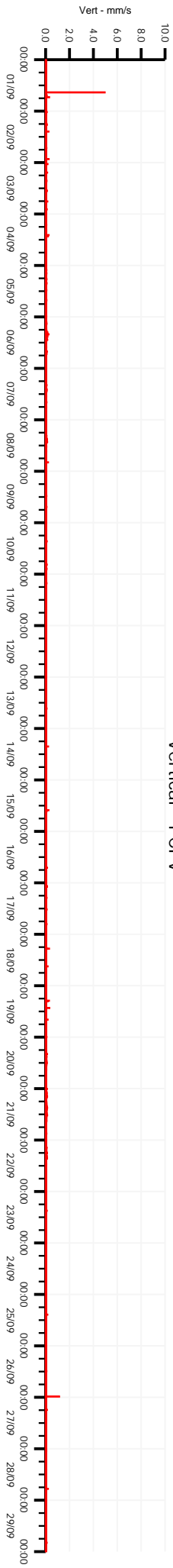
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Start
End
Monitoring Location

Quick report
Warrawoona Peak
1/09/2021
30/09/2021
Klondyke Queen - Warrawoona

Monitoring Results

PPV/max	9.53 mm/s
PPV/max (99.9%)	0.17 mm/s
PPV/max (99.8%)	0.13 mm/s
PPV/max (99.5%)	0.10 mm/s
PPV/max (99.0%)	0.09 mm/s



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Start
End
Monitoring Location

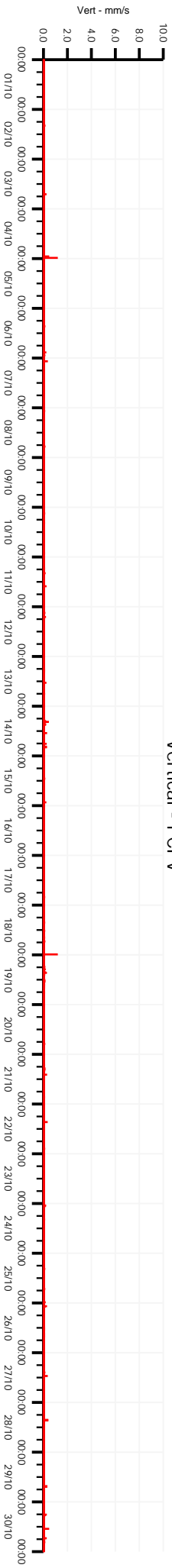
Quick report
Warrawoona Peak
1/10/2021
31/10/2021
Klondyke Queen - Warrawoona

Monitoring Results

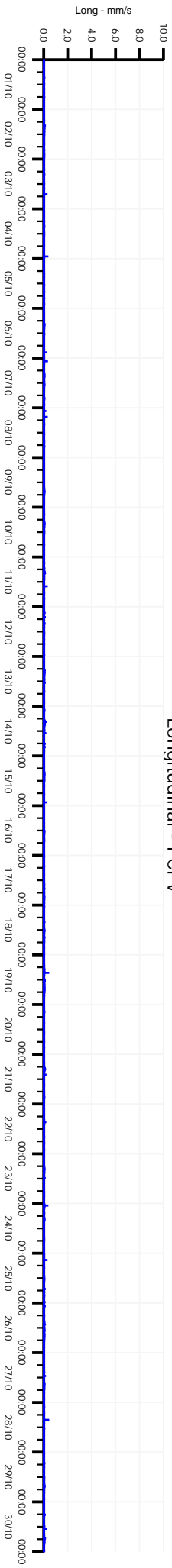
PPV/max (99.9%)
PPV/max (99.8%)
PPV/max (99.5%)
PPV/max (99.0%)

1.13 mm/s
0.13 mm/s
0.08 mm/s
0.07 mm/s

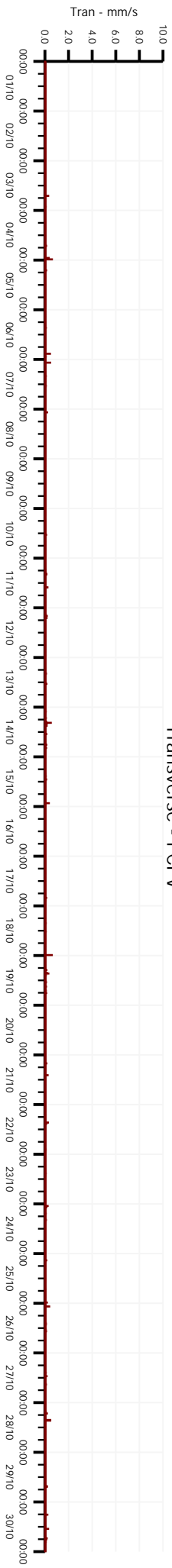
Vertical - PCPV



Longitudinal - PCPV



Transverse - PCPV



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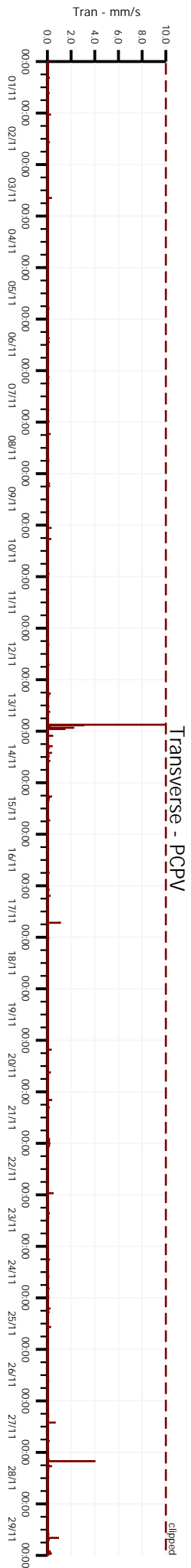
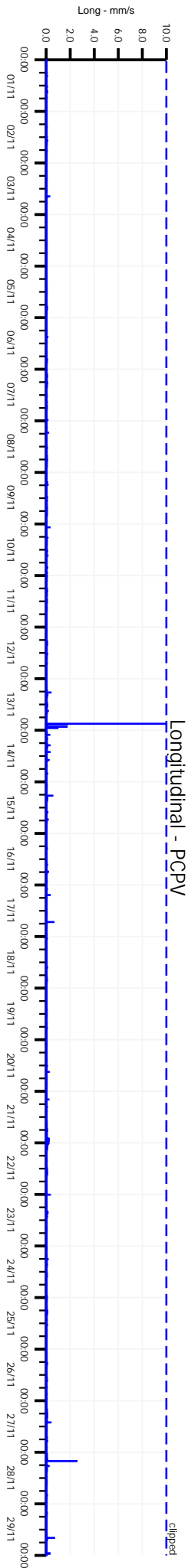
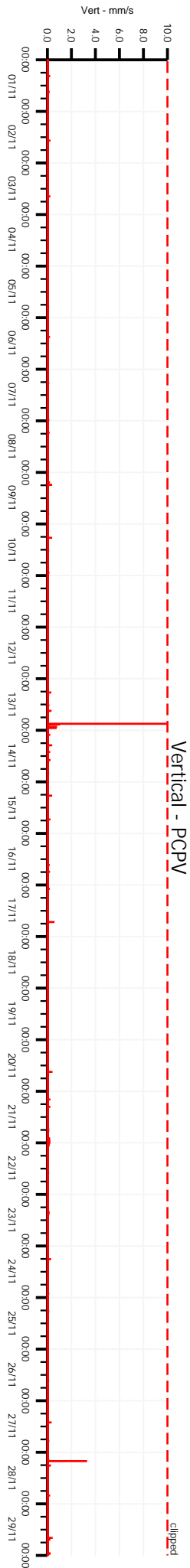
Start
End
Monitoring Location

Quick report
Warrawoona Peak
1/11/2021
30/11/2021
Klondyke Queen - Warrawoona

Monitoring Results

PPV/max (99.9%)
PPV/max (99.8%)
PPV/max (99.5%)
PPV/max (99.0%)

90.10 mm/s
0.17 mm/s
0.13 mm/s
0.09 mm/s
0.08 mm/s



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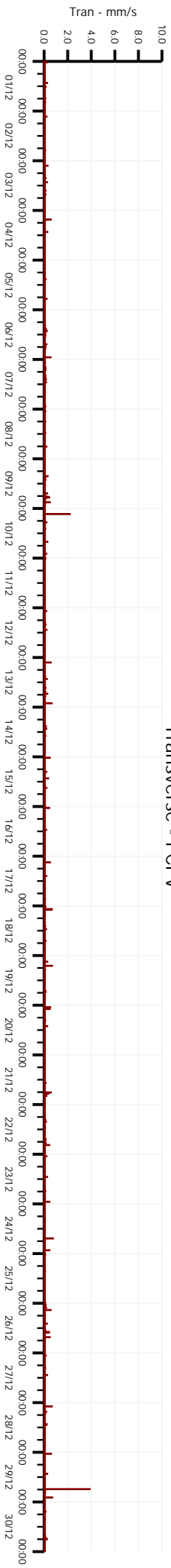
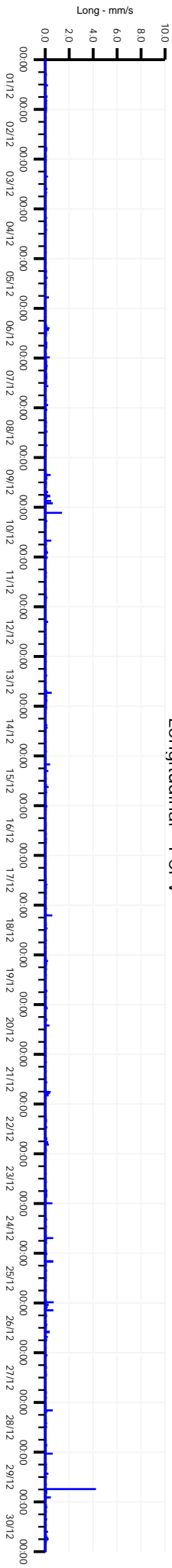
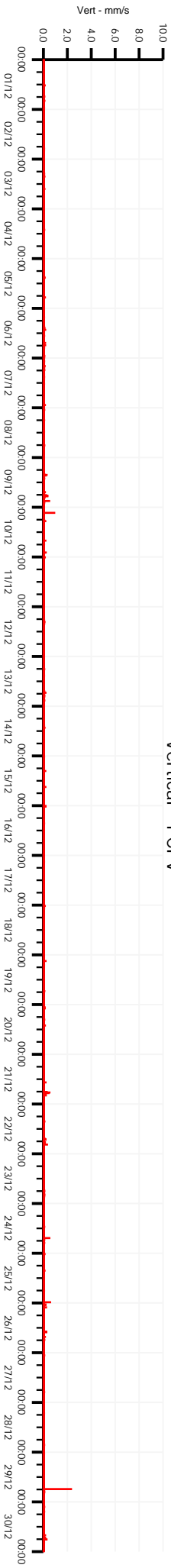
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Start
End
Monitoring Location

Quick report
Warrawoona Peak
1/12/2021
31/12/2021
Klondyke Queen - Warrawoona

Monitoring Results

PPVmax	4.18 mm/s
PPVmax (99.9%)	0.29 mm/s
PPVmax (99.8%)	0.20 mm/s
PPVmax (99.5%)	0.11 mm/s
PPVmax (99.0%)	0.09 mm/s



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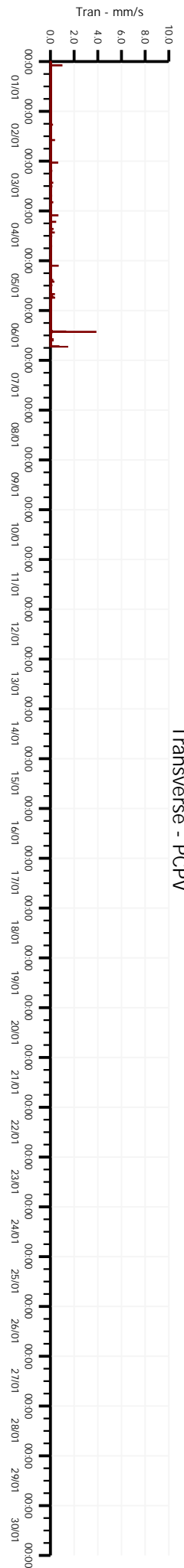
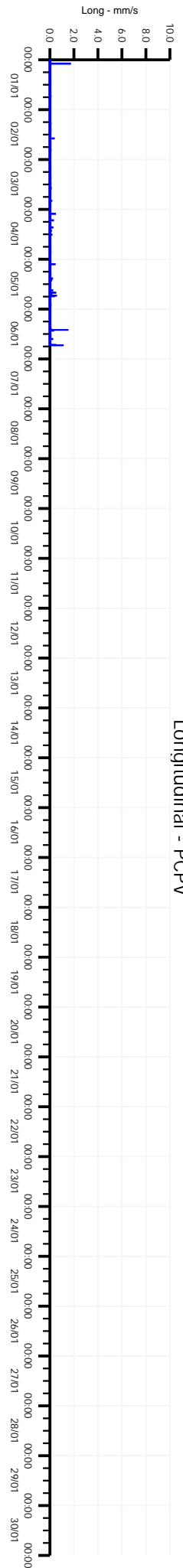
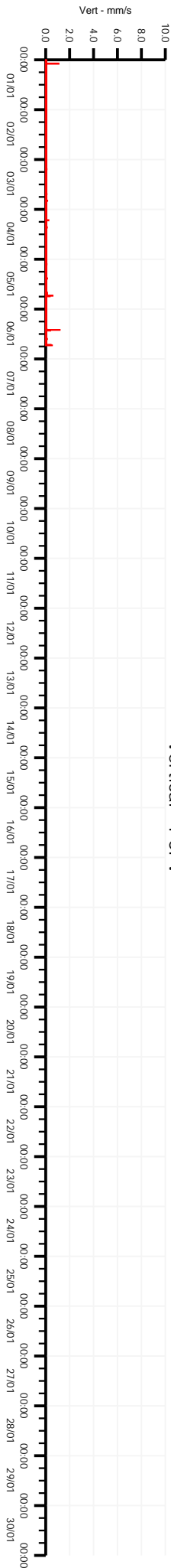


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Start
End
Monitoring Location

Quick report
Warrawoona Peak
1/01/2022
31/01/2022
Klondyke Queen - Warrawoona

Monitoring Results	
PPVmax	3.82 mm/s
PPVmax (99.9%)	0.43 mm/s
PPVmax (99.8%)	0.28 mm/s
PPVmax (99.5%)	0.18 mm/s
PPVmax (99.0%)	0.10 mm/s



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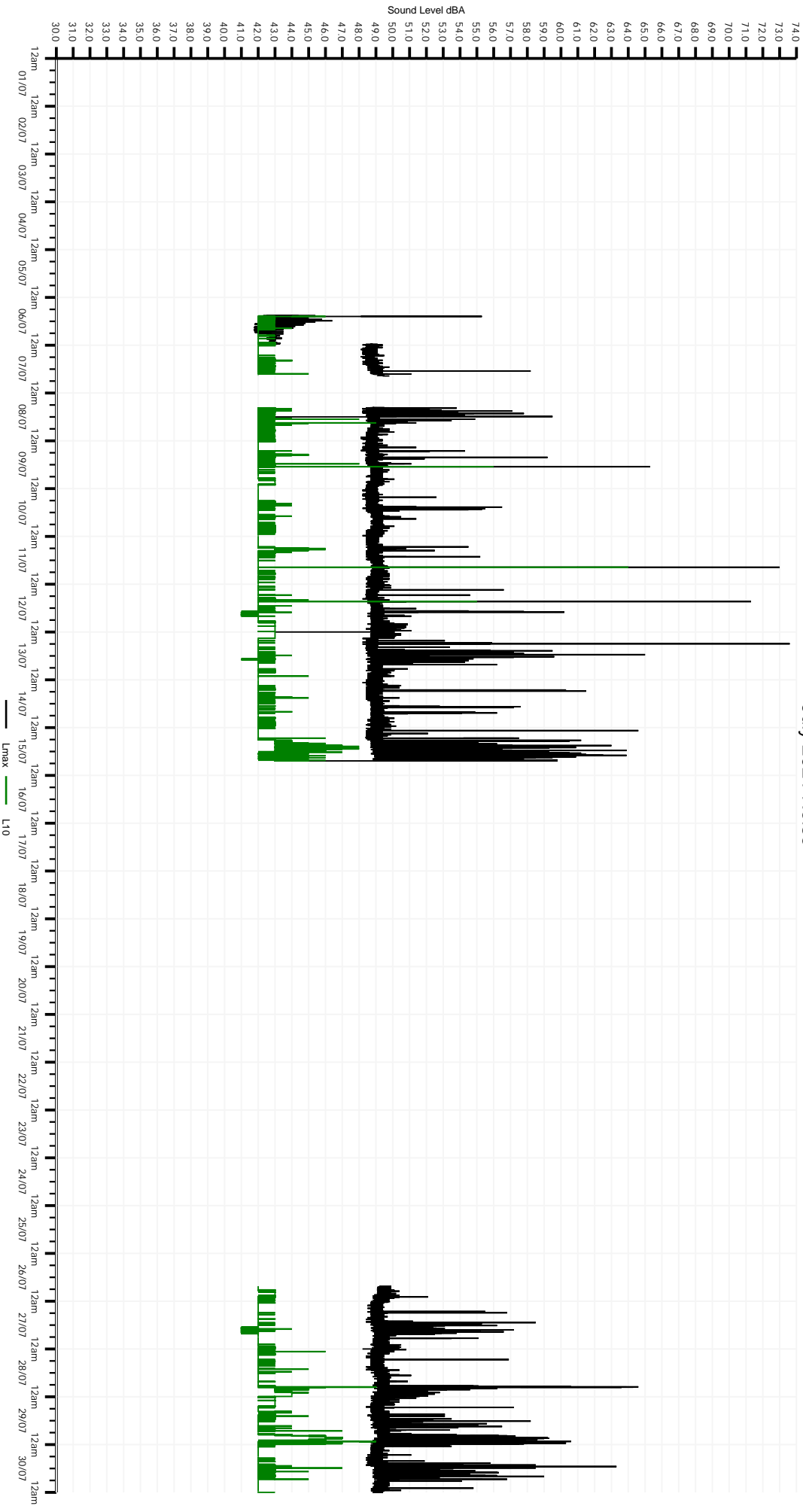


Quick report

Warrawoona Peak

Start 1/07/2021
End 31/07/2021
Monitoring Location Klondyke Queen -

July 2021 Noise



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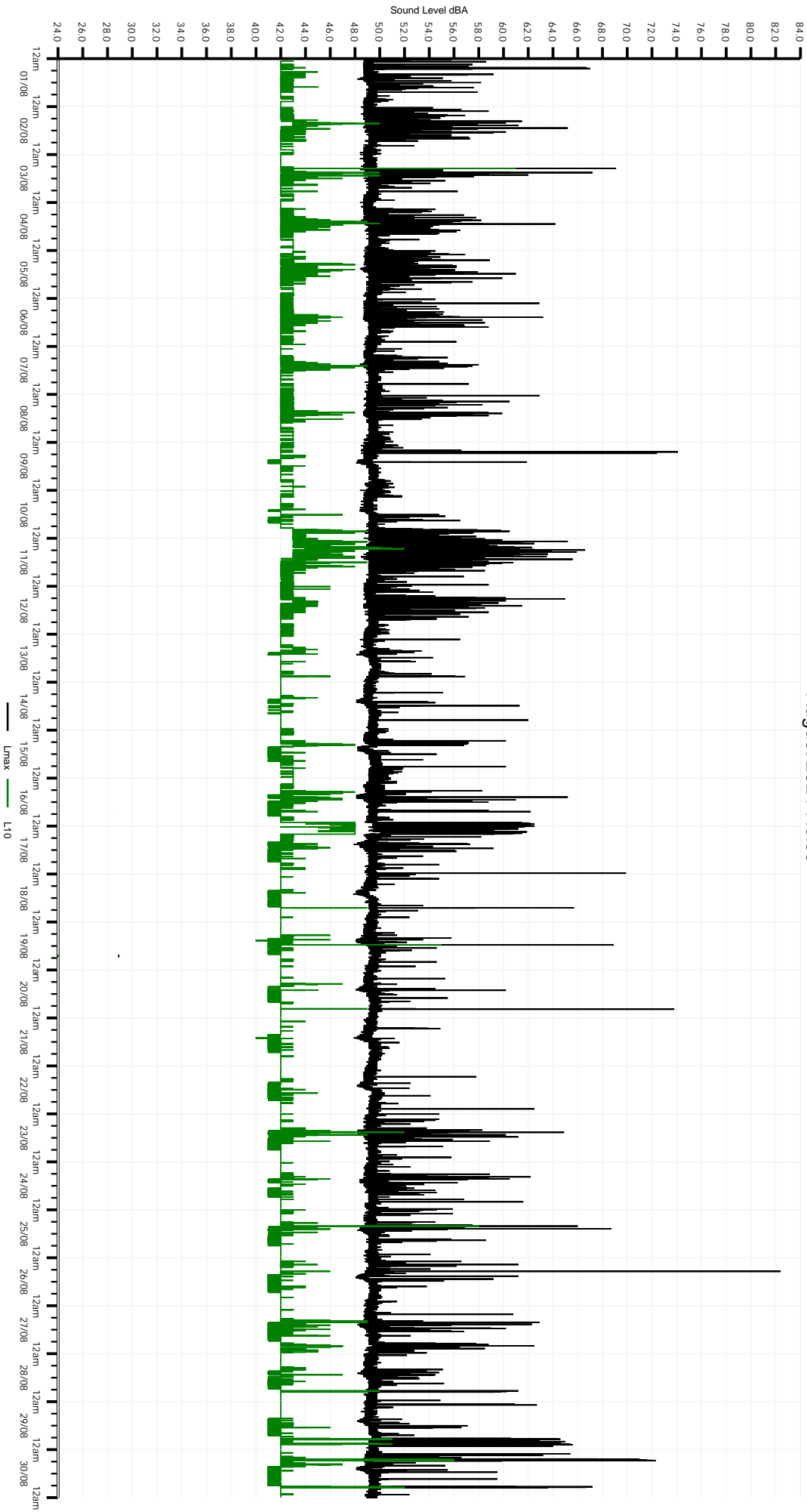
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Quick report

Warrawoona Peak

Start 1/08/2021
 End 31/08/2021
 Monitoring Location Klondyke Queen -

August 2021 Noise



— Lmax
 — L10



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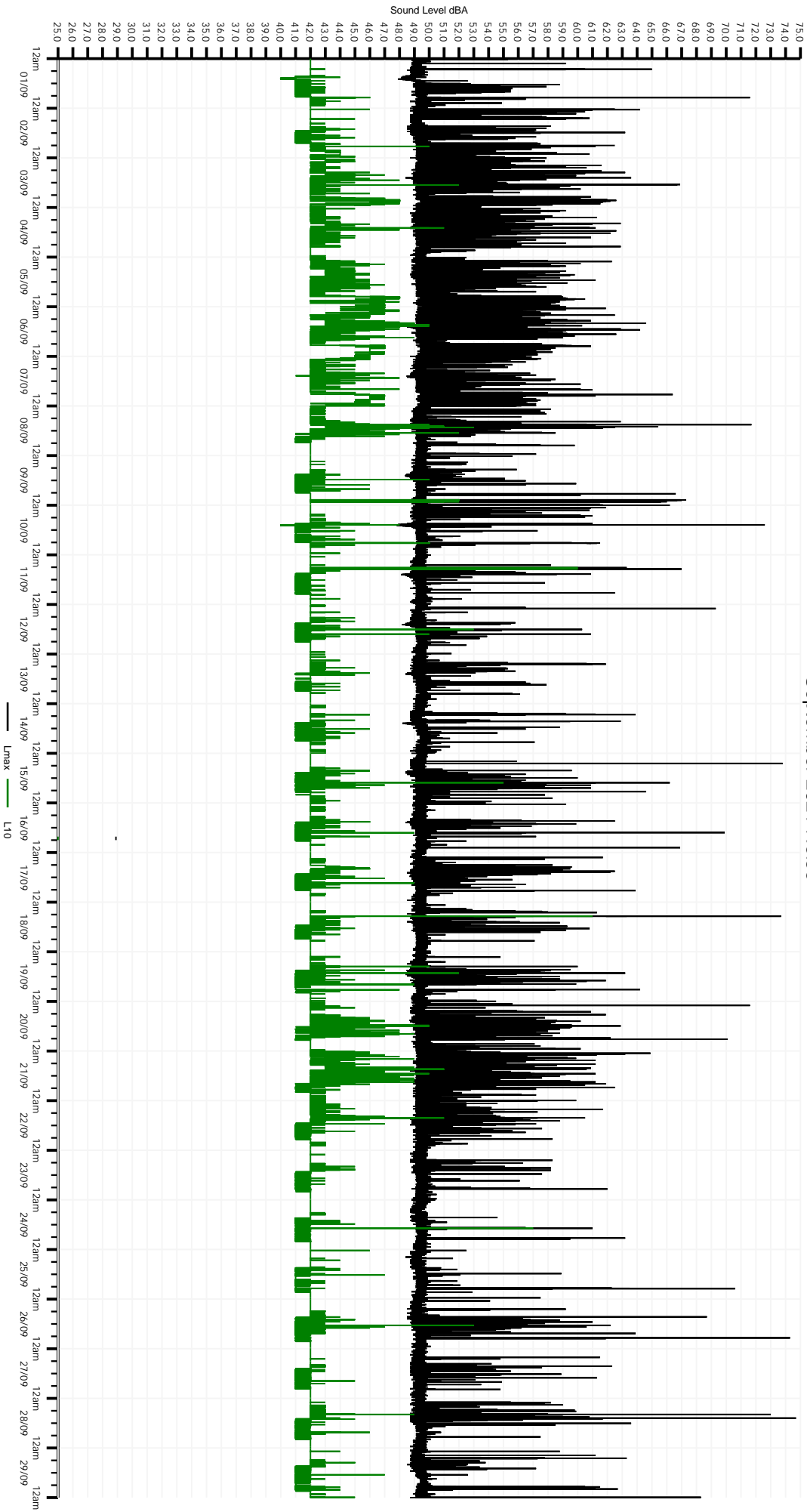
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Quick report

Warrawoona Peak

Start 1/09/2021
End 30/09/2021
Monitoring Location Klondyke Queen -

September 2021 Noise



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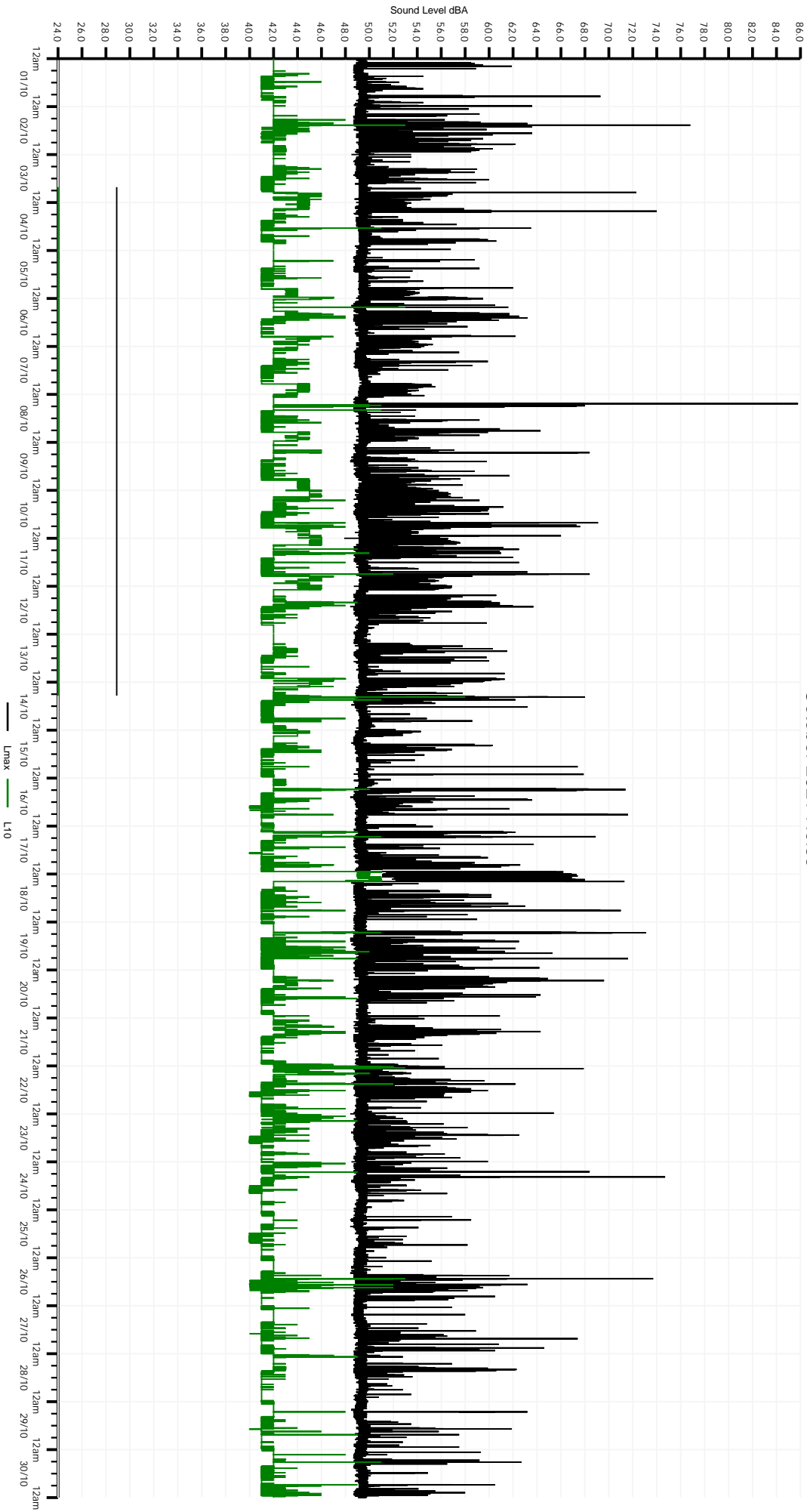
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Quick report

Warrawoona Peak

Start 1/10/2021
 End 31/10/2021
 Monitoring Location Klondyke Queen -

October 2021 Noise



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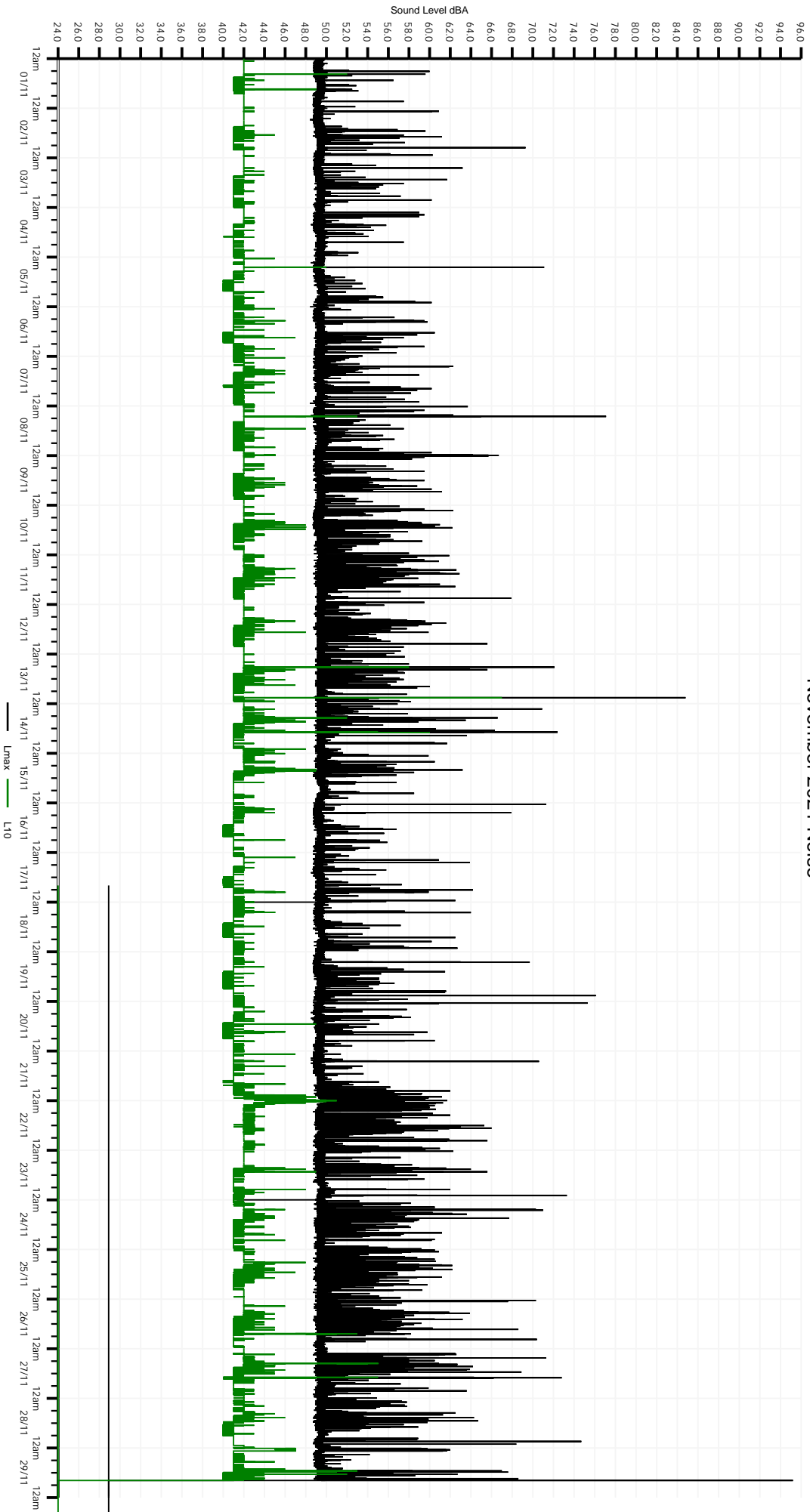
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Quick report

Warrawoona Peak

Start 1/11/2021
 End 30/11/2021
 Monitoring Location Klondyke Queen -

November 2021 Noise



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