

## Annual Audit Compliance Report Form

Environmental Protection Act 1986, Part V Division 3

Once completed, please submit this form either via email to <a href="mailto:info@dwer.wa.qov.au">info@dwer.wa.qov.au</a>, or to the below postal address:

Department of Water and Environmental Regulation Locked Bag 10 Joondalup DC WA 6919

Section A – Licence details					
Licence number:	L8830/2014/2	Licence file number:	DER2014/001293		
Licence holder name:	Lithco No.2. Pty Lt	Lithco No.2. Pty Ltd			
Trading as:	Lithco No.2				
ACN:	612 726 922				
Registered business address:	Level 7, 20 Parkland Road, Osborne Park WA 6017				
Reporting period:	01/04/2022 to 31/03/2023				

## Section B – Statement of compliance with licence conditions

Did you comply with all of your licence conditions during the reporting period? (please tick the appropriate box)

- ☐ Yes please complete:
  - section C;
  - · section D (if required); and
  - · sign the declaration in Section F.
- ☑ No please complete:
  - section C;
  - section D (if required);
  - section E; and
  - · sign the declaration in Section F.

### Section C – Statement of actual production

Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.

Prescribed premises category	Actual production quantity
Category 5	1,195,558 tonnes

### Section D - Statement of actual Part 2 waste discharge quantity

Provide the actual Part 2 waste discharge quantity for this reporting period. Supporting documentation is to be attached.

Prescribed premises category	Actual Part 2 waste discharge quantity
Category 89	Approximately 170 tonnes

### Section E – Details of non-compliance with licence condition

Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.

Condition no:  3. The Licence holder shall manage the containment infrastructure in Table 1 such that:  (a) top of embankment freeboard of at least 500mm is maintained; and  (b) the size of the operational pond on the TSF is kept to below 15% of the total surface area of the			
	 containment infrastructure in Table 1 such that:  (a) top of embankment freeboard of at least 500mm is maintained; and  (b) the size of the operational pond on the TSF is	non-	2022 / 2023

## Details of non-compliance:

Process water pond levels managed by mill operators >500mm freeboard using CITEC system - real-time data, high/low level alarms and pumps on/off as required;

Monthly survey of TSF2 conducted, which includes calculation of pond size - 31/03/2023 surveyed pond size was 14,757m2 / 130,000m2 (TSF2 area) = 11.35%.

Issues experienced with tailings density lower than planned (high water content), increasing the normal TSF commissioning issue of maintaining supernatant water <15% of TSF area and away from embankments - until tails beach developed sufficiently.

TSF Audit (REC, Oct 2022) stated 'The low densities observed in the TSF and the high groundwater levels from the VWP data indicate that the early deposition of tailings has not been conducted in accordance with the design intent. All efforts shall be made to reduce the extent of water deposited to the tailings dam.'

Boreline Pit Extended IPTSF has insufficient storage capacity for the 1 in 100 AEP 72-hour storm event, given that the tailings are level with the embankment crest. (REC 2022)

What was the actual (or suspected) environmental impact of the non-compliance?

**NOTE** – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.

Low: Boreline Extended IPTSF has not previously exceeded water storage capacity and overflowed, is included in inspection program (daily, weekly, monthly and following high rainfall events, and the surrounding area is not considered high-risk due to mining disturbance.

At the time of the TSF2 audit inspection (REC, 2022), 'the embankment crests and batters showed no visible signs of cracking or deterioration that would affect the integrity of the facility';

Figure 12 in AER document shows the Monthly TSF survey at end March 2023. Figure is an aerial view of the TSF with the pond and tailings beach mapped and calculated – pond is 11.35% of TSF surface area (<15%) and being actively pushed away from embankment.

#### Cause (or suspected cause) of non-compliance:

Commissioning challenges with low tailings density;

Delays installing meter on supernatant decant pump;

Boreline IPTSF not considered High-risk due to high levels of mining disturbance surrounding.

Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:

Reported to DWER in writing

## Section E – Details of non-compliance with licence condition

- 1.Continue to remove supernatant water from TSF2 using installed pumps, monitor volumes recovered and measure progress via monthly survey of pond size and location. Issue and track corrective actions (via INX) if pond size exceeds licence limit;
- 2. Water Balance system in place now: Figure 13 shows the GDM Water Balance Screen with full functionality; Figure 14 shows the water balance flow-chart, simplifying the understanding of water movement around site; Figure 15 shows the editable Water Balance chart; and Figure 16 the Site Water Summary of water meters, usage and status across site;
- 3.The administrator of the GDM system is booked to come to site and train all staff on its use and addition of data through the reporting year, so real time monitoring and assessment can occur;
- **4.**Operations staff required to manage the Water Balance and ensure they complete the Training Program in the system and are competent in its operation;
- 5. Undertake recycling of waste water onsite (approvals process underway) to further reduce water inflow to the TSF;
- **6**.Conduct risk assessment re. freeboard at Boreline IPTSF and manage in short/medium term as required pending outcome; and
- Implement Closure Designs and potential rehabilitation schedule for Boreline Extended IPTSF.

Was this non-compliance previously reported	ed to DWER?
	with the requirement for external reporting of pacts and actions taken triggered by input of into the INX system.
☐ Reported to DWER verbally	Date: / /

Date: 28 /04

/2023

Condition no:	7: For each operational TSF the Licensee shall complete a monthly water balance. The water balance shall as a minimum record the following: a) site rainfall; b) evaporation rate; c) decant water recovery volumes; d) seepage recovery volumes; e) volumes of tailings deposited; to derive an f) estimate of seepage losses.	Date(s) of non- compliance:	2022 / 2023
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### Details of non-compliance:

A Water Balance has been developed using an on-line management system (Geoscience Data Management – GDM), which incorporates the parameters in Condition 7.

The system is functional and effective, however was recently commissioned (late 2022) and relatively complex – site staff are still learning to operate the system to its full capacity and benefit.

What was the actual (or suspected) environmental impact of the non-compliance?

**NOTE** – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.

Low – 'At the time of the audit inspection (REC, 2022), the embankment crests and batters showed no visible signs of cracking or deterioration that would affect the integrity of the facility;

Figure 12 in AER document shows the Monthly TSF survey at end March 2023. Figure is an aerial view of the TSF with the pond and tailings beach mapped and calculated – pond is 11.35% of TSF surface area (<15%) and being actively pushed away from embankment.

#### Cause (or suspected cause) of non-compliance:

Commissioning challenges, supply issues and staff shortages

Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:

- **1.**Water Balance system in place now: Figure 13 shows the GDM Water Balance Screen with full functionality; Figure 14 shows the water balance flow-chart, simplifying the understanding of water movement around site; Figure 15 shows the editable Water Balance chart; and Figure 16 the Site Water Summary of water meters, usage and status across site;
- 2.The administrator of the GDM system is booked to come to site and train all staff on its use and addition of data through the reporting year, so real time monitoring and assessment can occur;
- 3. Operations staff required to manage the Water Balance and ensure they complete the Training Program in the system and are competent in its operation;
- **3.** Recently employed site environmental advisor, to assist implementation of the compliance program, including completion of monthly water balances as required;

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<b>4.</b> Review and update the Groundwater Licence 0 addition of further telemetry systems to provide reand		
5.Lithco manages site compliance via INX, where non-compliant items are entered, corrective actions are issued to the responsible department and tracked to completion. The system is transparent, measures performance in closing out actions and is driven by site leadership, who in-turn are held responsible by Corporate. INX shows trends in environmental performance across risk groups (dust, GW etc) for managing and reporting purposes, ensures the responsible departments understand their commitments and can manage training requirements and competencies.		
Was this non-compliance previously reported to	DWER?	
No – This oversight has now been rectified with the requirement for external reporting of exceedances and non-compliant items, plus impacts and actions taken triggered by input of monitoring and inspection data, plus incidents to the INX system.		
Reported to DWER verbally	Date: / /	
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	9. The Licence holder shall ensure the pipelines containing materials are either the pipelines containing materials.			
Condition no:	(a) equipped with automatic cut-outs of a pipe failure; and/or	in the event	Date(s) of non- compliance:	2022 / 2023
12020	(b) provided with secondary containr sufficient to contain any spill for a pe to the time between routine inspection	riod equal	,	
Details of r	non-compliance:			
	are buried or in surface V drains, with			onal secondary
	are included in daily inspections, and the received are vegetation would be impacted in a		un-bunded are ge	enerally not
What was	the actual (or suspected) environment	al impact of the	ne non-complianc	e?
NOTE – ple compliance	ase attach maps or diagrams to provide in took place.	nsight into the p	precise location of v	where the non-
environme	benign nature of the tails (Klohn Crip ntal impact. Also, pipelines not within would be impacted if a spill.			
Cause (or suspected cause) of non-compliance:				
Due to the extensive development across the site following the administration process a number of tailing and water transfer pipelines were redirected.				
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:				
Daily inspections of pipeline infrastructure – AER Appendix 3 provides copies of inspection daily, weekly, monthly and quarterly inspection checklists in place, and examples of those undertaken;				
2. Implement pipeline bunding improvement program across site and track progress to completion in INX - Lithco manages site compliance via INX, where non-compliant items are entered, corrective actions are issued to the responsible department and tracked to completion.				
Was this non-compliance previously reported to DWER?				
No - This oversight has now been rectified with the requirement for external reporting of exceedances and non-compliant items, plus impacts and actions taken triggered by input of monitoring and inspection data, plus incidents to the INX system.				
Rep	orted to DWER verbally	Date: /	1	
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Condition no:	<b>Table 6</b> : Volumes of water recovered TSF; and Boron, barium, fluoride, lit manganese, nickel, thallium, thorium uranium in tailings <sup>1</sup>	hium,	Date(s) of non- compliance:	2022 / 2023
Details of r	non-compliance:			
recorded fr	r installed on TSF2 supernatant pump om that point (AER Figure 16); and of analysis conducted in April 2022.	in Jan 2023 -	- accurate monthl	y volumes
What was	the actual (or suspected) environment	al impact of th	ne non-complianc	e?
NOTE – ple compliance	ase attach maps or diagrams to provide ir took place.	nsight into the p	precise location of w	here the non-
Low				
Cause (or	suspected cause) of non-compliance:			
Commissio	oning challenges, supply issues and st	aff shortages	for monitoring; ar	nd
	n nature of the tails identified during er open Berger, 2018) reduces environme			
Action take	n to mitigate any adverse effects of no ance:	on-compliance	e and prevent rec	urrence of the
1.Flow meter installed on TSF2 supernatant pump in Jan 2023 – accurate monthly volumes recorded from that point (AER Figure 16);				
	2.Conduct analysis of metals in tailings as required, until licence amendment can be sought to adjust condition; and			
3.Waste characterization works currently underway (Dr Graeme Campbell) will also further assess environmental risk (of tailings) and management parameters required.				
Was this non-compliance previously reported to DWER?				
No - This oversight has now been rectified with the requirement for external reporting of exceedances and non-compliant items, plus impacts and actions taken triggered by input of monitoring and inspection data, plus incidents to the INX system.				
Rep	orted to DWER verbally	Date: /	1	
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Condition no:	<b>Table 7</b> : Static dust deposition at ga SDM2, SDM3, SDM4 (Schedule 1) a of Total suspended particulate - mg/	and analysis	Date(s) of non- compliance:	2022 / 2023
Details of r	non-compliance:			
Dust monit	oring not undertaken during 2022 / 20	23 period.		
	the actual (or suspected) environment ase attach maps or diagrams to provide in took place.	3	7	
Low				
Cause (or	suspected cause) of non-compliance:			
crushing a	monitoring not conducted during periond processing plant, to assist manage els inform of high dust so additional a ntal impacts of dust.	ment of dust	for health and safe	ety purposes.
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:				
1.Conduct static dust monitoring as required, until licence amendment can be sought to adjust condition as risk to surrounding values/receptors is very low;				
2.Utilise live dust monitors on crusher and process plant, investigate exceedances, issue corrective actions as required, and include results in Annual Environmental Reporting;				
3.Maintain dust suppression activities around the active minesite.				
Was this non-compliance previously reported to DWER?				
No -This oversight has now been rectified with the requirement for external reporting of exceedances and non-compliant items, plus impacts and actions taken triggered by input of monitoring and inspection data, plus incidents to the INX system.				
Rep	orted to DWER verbally	Date: /	1	
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Condition no:	Table 8: Groundwater Monitoring Pro	ogram	Date(s) of non- compliance:	2022 / 2023
Details of n	Details of non-compliance:			
<ul> <li>Monitoring of SWL not conducted quarterly at all bores;</li> <li>Monitoring of pH not conducted quarterly at all bores;</li> <li>Monitoring of dissolved metals not conducted quarterly at all bores; analysis for thallium not included; and</li> <li>Monitoring of radiation parameters was conducted twice during the reporting period (July 2022 &amp; March 2023, however not all specified bores were sampled.</li> </ul>				
What was t	the actual (or suspected) environment	al impact of th	ne non-complianc	e?
NOTE - plea compliance	ase attach maps or diagrams to provide ir took place.	nsight into the p	recise location of w	here the non-
Believed to	be low from previous investigations.			
Cause (or	suspected cause) of non-compliance:			
Commissio	ning challenges and staff shortages			
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:				
1.Develop and implement groundwater monitoring procedure to meet licence requirements, and to include immediate review of results, entering of exceedances into INX, external reporting and issue of corrective actions as required;				
	f GLOS underway, to assist complian and their importance on achieving er			iding parameters
3. Replace	3. Replace unserviceable monitoring bores; and			
<b>4.</b> Recently employed site environmental advisor, to assist implementation of the site compliance program, including completion / management of groundwater monitoring.				
Was this non-compliance previously reported to DWER?				
No - This oversight has now been rectified with the requirement for external reporting of exceedances and non-compliant items, plus impacts and actions taken triggered by input of monitoring and inspection data, plus incidents to the INX system.				
Repo	orted to DWER verbally	Date: /	1	
Repo	Reported to DWER in writing  Date: 28/ 04 /2023			

## Section F - Declaration

I / We declare that the information in this Annual Audit Compliance Report is true and correct and is not false or misleading in a material particular<sup>1</sup>.

I / We consent to the Annual Audit Compliance Report being published on the Department of Water and Environmental Regulation's (DWER) website.

Signature <sup>2</sup> :		Signature:	
Name: (printed)		Name: (printed)	
Position:		Position:	
Date:	28 April 2023	Date:	
Seal (if signing under seal):			

<sup>&</sup>lt;sup>1</sup> It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular.

<sup>&</sup>lt;sup>2</sup> AACRs can only be signed by the licence holder or an authorised person with the legal authority to sign on behalf of the licence holder.