



THE SAFEST PLACE FOR AUSTRALIA'S HAZARDOUS WASTE

We believe our geological repository at Sandy Ridge is the safest location for Australia's hazardous waste.

**Sandy Ridge Facility
Alignment of gate waste acceptance tonnage**

Assessment 2309

22 June 2022

www.tellusholdings.com

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Acknowledgement of Country

Tellus acknowledges the traditional owners of the country and recognises their continuing connection to the land, waters and community. We pay our respect to them and their culture and to the elders both past, present and emerging.



Introductions

Tellus

- **Stephen Hosking**, Chief Development Officer (Speaker)
- **Nathan Blight**, General Manager – Studies and Approvals

GHD

- **Fionnuala Hannon**, Technical Director – Environment (Speaker)
- **Martin Gravett**, Technical Director – Resource Recovery and Waste Management
- **Natasha Ambrey**, Environmental Engineer – Waste and Environment
- **Mary Papachristos**, Manager – Stakeholder Engagement and Social Sustainability

Housekeeping

- The session is being recorded
- Microphones have been muted for this session
- A formal Q and A at the end of the presentation
- Place all questions into the chat box

If reporters do have any questions, please feel free to email after the session on:
stephen.hosking@tellusholdings.com

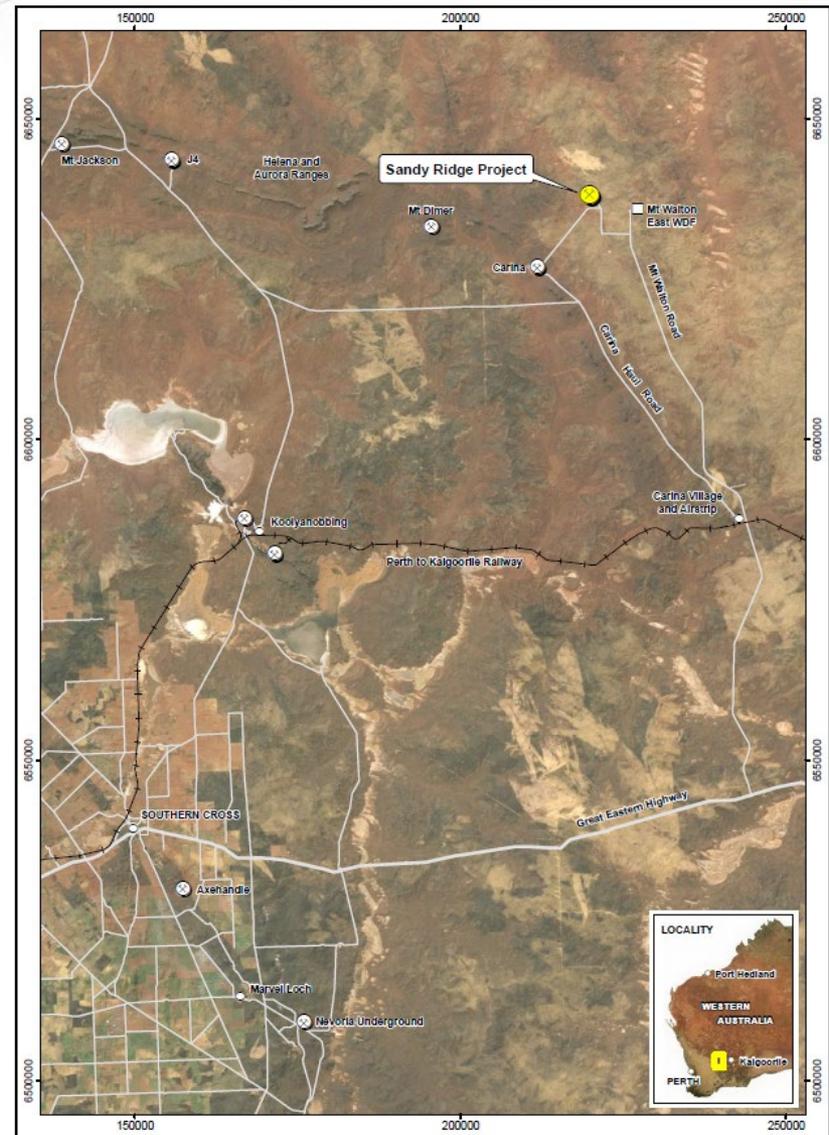
Agenda

- Background and status
- Operations fly through video
- Summary of the Proposal
- Environmental approvals process
- Key environmental factors
- Consultation
- Public Environmental Review
- Questions



Background

- 240kms northwest of Kalgoorlie, WA
- Dual use Kaolin mine with the voids created by mining used to store and permanently isolate hazardous and intractable wastes
- Ministerial Statement 1078 (environmental approval) was published on 27 June 2018
- Operations began in June 2020
- Licensed to accept 100,000tpa of class IV and V waste at the facility gate and permanently isolate 280,000tpa in cell.



Fly Through Video



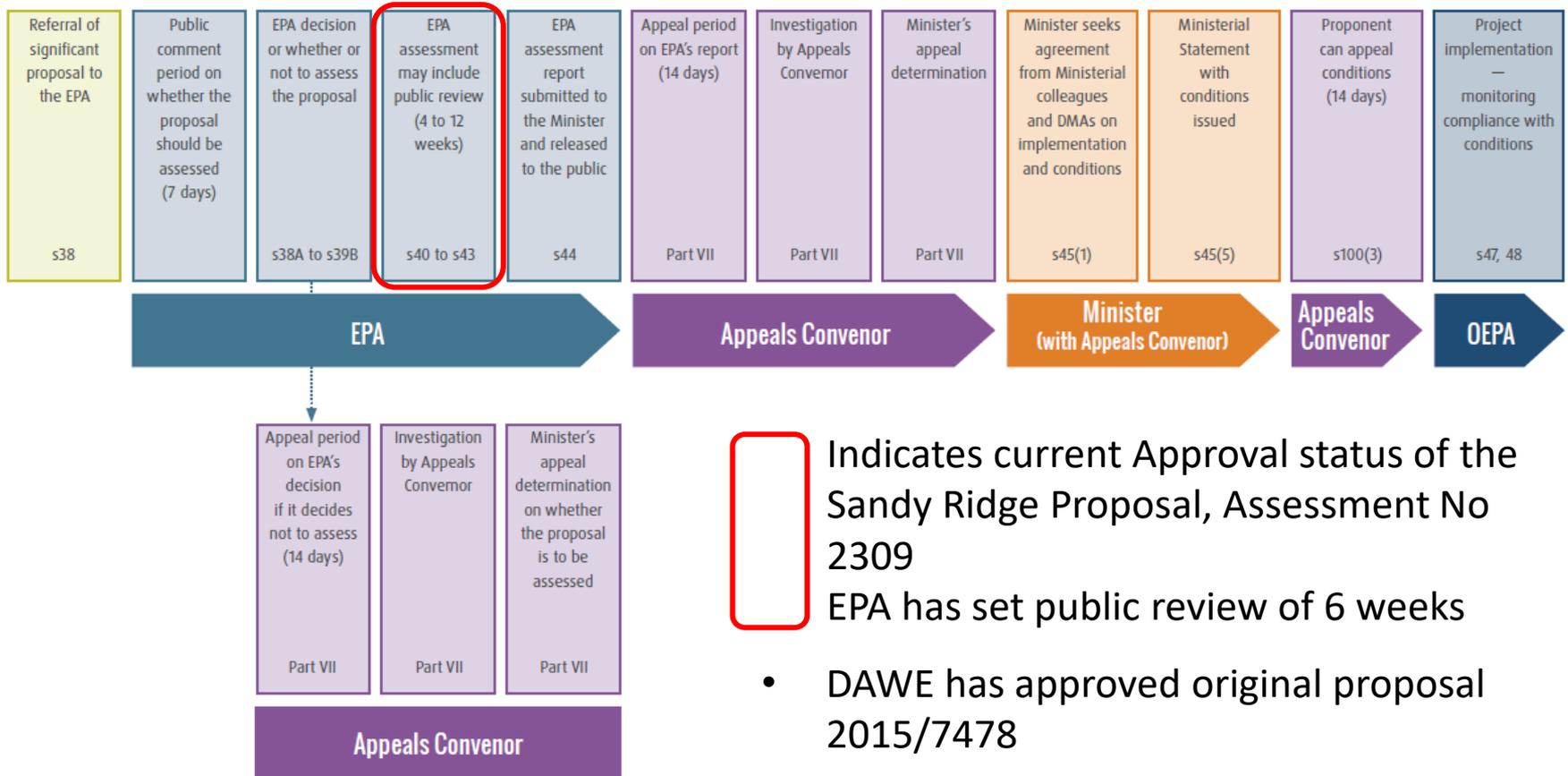
The proposal

- Revised proposal referred August 2021.
- Level of assessment is Public Environmental Review.



| Proposal element | Proposed amendment | Combined extent, capacity or range |
|---------------------------------------|--|--|
| Mine pits/waste cells | No change | Clearing up to 202 ha native vegetation within a 1,061 ha development envelope |
| Associated infrastructure | No change | Clearing up to 74 ha native vegetation within a 1,061 ha development envelope |
| Class IV and V waste accepted at gate | 180,000 tpa increase to align with existing approved waste disposal quantity | Up to 280,000 tpa to align with existing approved waste disposal quantity |
| Temporary waste storage on surface | No change | Up to 15,000 tonnes |
| Maximum temporary storage time | No change | Up to 12 months |
| Waste disposed to waste cells | No change | Up to 280,000 tonnes per annum |
| Water use | No change | Up to 0.18 gigalitres per annum |

Environmental Approvals Process

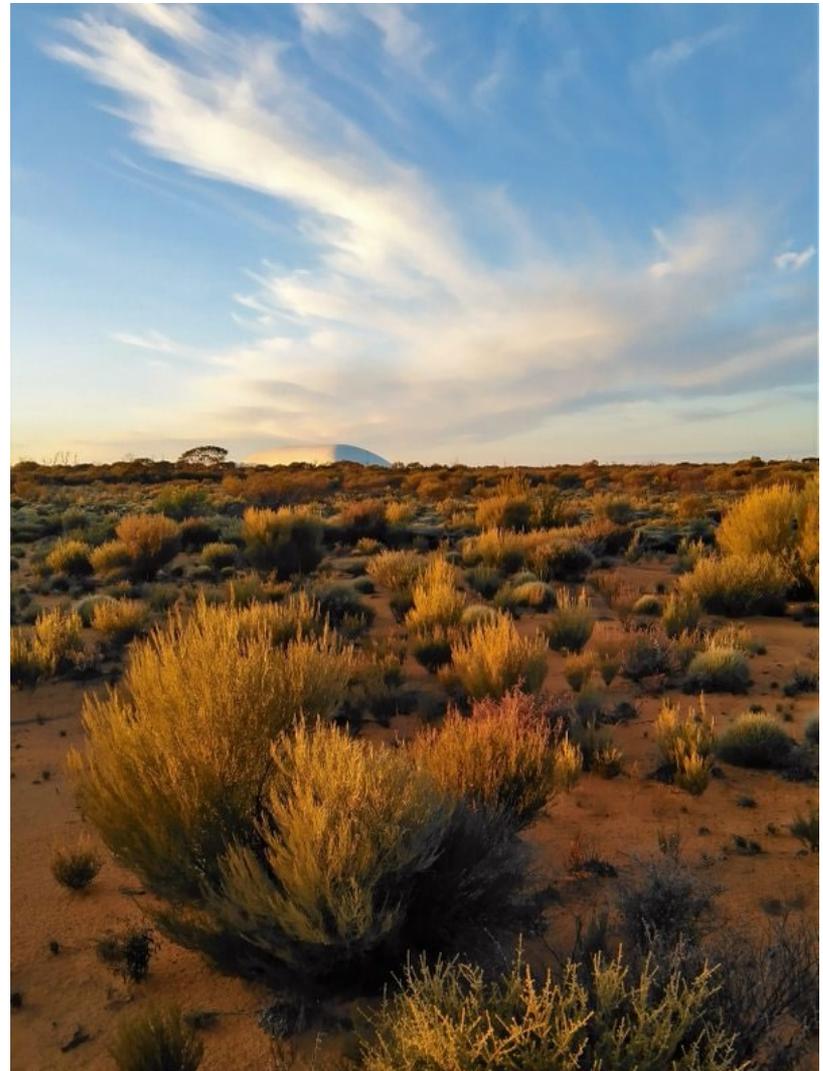


Indicates current Approval status of the Sandy Ridge Proposal, Assessment No 2309
 EPA has set public review of 6 weeks

- DAWE has approved original proposal 2015/7478
- DAWE confirmed new Proposal does not impact MNES and therefore referral is not required, 1 June 2021

Key Environmental Factors

- Flora and vegetation
- Terrestrial fauna
- Terrestrial environmental quality
- Inland waters
- Human health
- Social surroundings
- Greenhouse gas emissions
- Air quality



Flora and Vegetation

- Western Botanical (February 2022) assessed the potential impacts on flora and vegetation from the Sandy Ridge Proposal
- One Priority Ecological Community (PEC) overlays part of the Sandy Ridge study area
- Five taxa found in the study area are priority flora species
- No new conservation listings since the 2018 approval
- No predicted impact as a result of this Proposal
- There are no significant changes to the reported impacts to Flora and Vegetation as assessed under MS 1078



Terrestrial Fauna

- Terrestrial Ecosystems (April 2022) assessed the potential impacts on terrestrial fauna from the Sandy Ridge Proposal
- Study confirmed four broad habitat types
- Study confirmed there are no active Malleefowl sites within the Development Envelope
- This Proposal is predicted to not impact Terrestrial Fauna
- There are no changes to the impacts assessed under MS 1078



Thorny devil

Terrestrial Environmental Quality

- Landloch (January 2022) assessed the potential impacts on soil quality from the Sandy Ridge operation
- Major soil types are:
 - Red sandy duplex soil
 - Deep yellow sands
- As this Proposal does not require soil handling nor interference of the profile, Landloch confirmed that the Proposal will not result in a change to the findings of the 2015 Soil Assessment, and assessed under MS 1078
- There are no changes to the impacts to TEQ as a result of the operations as assessed under MS1078



Red Sandy Duplex Soil

Inland Waters

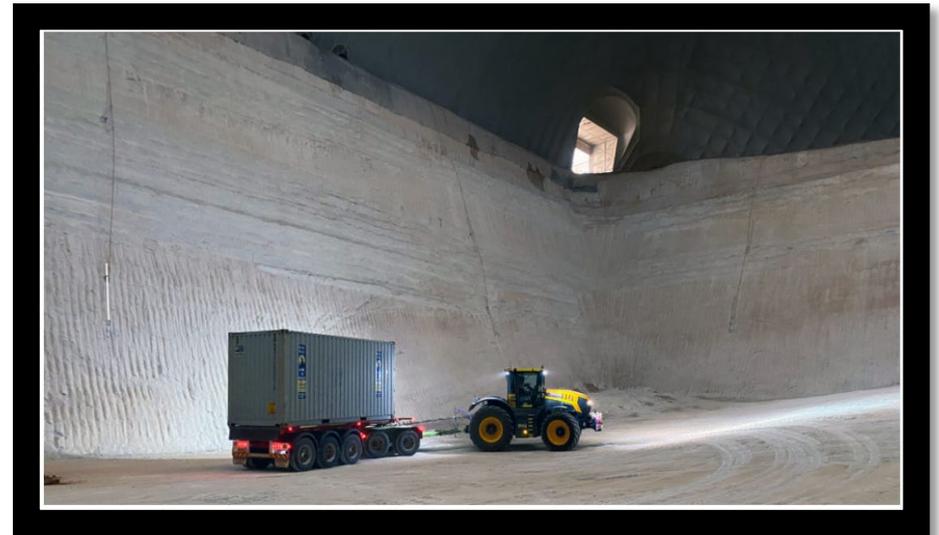
- Rockwater (February 2022) / CyMod (June 2022) assessed the potential groundwater and surface water impacts from the Sandy Ridge operations
- No change in surface water or groundwater impacts from the Proposal
- Predicted impact
 - Minimal risk to surface water due to low rainfall and mitigation in place with site operations
 - The limited groundwater and low permeability soil type means the interaction of surface water and groundwater is very small
 - The mitigation in place (including the cell cover and cap, and groundwater monitoring) prevents rainfall from interacting with stored waste



Groundwater monitoring event

Human Health

- Radiation (Tellus 2022) and bushfire (Linfire 2022) impacts have been assessed for the Sandy Ridge operations
- Predicted impact resulting from Proposal
 - No exceedances are predicted for noise sensitive receptors
 - Radiation exposures are below regulatory thresholds during operations and after closure
 - No additional adverse impacts from bushfires expected



Social Surroundings

- No confirmed Aboriginal heritage sites within the development envelope
 - Consultation will remain ongoing with Aboriginal Traditional Owners
 - No expected change to European Heritage
- No expected change to noise at the Facility.
- No expected change to amenity
- No increase in construction traffic as construction is not required for this Proposal
- Traffic impact assessment predicts an increase in trucks travelling through both Coolgardie (up to 2 trucks/hour) and Kalgoorlie (1 truck/hour) as a result of this Proposal. No upgrades to roads are required.
- Tellus pre-qualifies all transporters accessing the Facility and schedules each delivery, as documented in Tellus' Transport Management Plan.



Greenhouse Gas Emissions

- Northstar (February 2022) assessed the GHG impacts from the Sandy Ridge operations
- An increase in GHG emissions resulting from the Proposal are anticipated to be minor
- A GHG Management Plan is not required as emissions are well below the threshold (100,000 t·CO2-e/year)

| Emission Scope | Current GHG emissions (t CO2-e/year) | Proposed GHG emissions (t CO2-e/year) |
|----------------|--------------------------------------|---------------------------------------|
| Scope 1 | 5,200 | 5,200 |
| Scope 2 | -427 | -427 |
| Scope 3 | 125 | 354 |
| Total | 4,898 | 5,127 |

Calculated GHG Emissions

Air Quality

- GHD (April 2022) assessed the potential air/dust impacts from the Sandy Ridge operations
- Modelling scenarios were assessed using the AERMOD dispersion model
- Minimal dust is generated from mining activities as the pit is covered by a mobile roof canopy
- There is a risk of increased dust being generated as a result of the increased truck movements
- No change required to current management plan including ongoing dust monitoring and testing



Sandy Ridge Facility Dust Gauges

Consultation

- Ongoing consultation has been undertaken with Decision Making Authorities since 2015
- A public comment period was included as part of the s38 approval
 - A 7-day review was provided on 17 August 2021
 - 2 submissions were received nominating assessment at PER
- Targeted consultation with stakeholders, including a regional roadshow, began in May 2021. A total of 9 people attended the roadshow
- Aboriginal consultation has been occurring throughout the process
 - JCHMC (February 2022) undertook consultation with relevant Aboriginal stakeholders for the Sandy Ridge operations
 - All the Aboriginal stakeholders were consulted and did not oppose the Proposal.



Public Environmental Review

➤ Have your say



What is a Public Environmental Review?

- Tellus prepared an Environmental Scoping Document (ESD) and made it available for public comment.
- Comments have been received on the draft ESD and have informed the Environmental Review Document (ERD) prepared as part of this Public Environmental Review (PER) process
- Tellus will consider submissions received during the public comment period in preparing the draft assessment report
- [Sandy Ridge Facility – Alignment of Gate Waste Acceptance Tonnage | EPA Western Australia](#)

How to make a submission

- The Environmental Protection Authority (EPA) invites people to submit an Environmental Review Document (ERD) for the proposal.
- ERD includes the following information:
 - Name and address
 - Date of submission
 - A summary of the submission, if it is long
 - A list of points so that issues raised are clear, preferably by environmental factor
 - Reference material, including confidentiality requirements
- Submissions to be made electronically via the EPA's Consultation Hub at [Environmental Protection Authority - Citizen Space \(epa.wa.gov.au\)](https://www.epa.wa.gov.au/citizen-space).
- The ERD is available for public review for a period of 6 weeks.
- Based on all above information, the EPA prepares an assessment report for the Minister for the Environment.



Questions

Please submit your comments to sandyridge@ghd.com



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