



Australia's National
Science Agency

GISERA | Gas Industry Social and Environmental Research Alliance

Progress report

Beetaloo basin shale long-term competency after decommissioning

Progress against project milestones

Progress against milestones/tasks are approved by the GISERA Director, acting with authority in accordance with the GISERA Alliance Agreement.

Progress against project milestones/tasks is indicated by two methods: Traffic light reports and descriptive Project schedule reports.

1. Traffic light reports in the Project Schedule Table below show progress using a simple colour code:

- **Green:**

- Milestone fully met according to schedule.
- Project is expected to continue to deliver according to plan.
- Milestone payment is approved.

- **Amber:**

- Milestone largely met according to schedule.
- Project has experienced delays or difficulties that will be overcome by next milestone, enabling project to return to delivery according to plan by next milestone.
- Milestone payment is withheld.
- Milestone payment withheld for second of two successive amber lights; project review initiated and undertaken by GISERA Director.

- **Red:**

- Milestone not met according to schedule.
- Problems in meeting milestone are likely to impact subsequent project delivery, such that revisions to project timing, scope or budget must be considered.
- Milestone payment is withheld.
- Project review initiated by GISERA Director.

2. Progress Schedule Reports outline task objectives and outputs and describe, in the 'progress report' section, the means and extent to which progress towards tasks has been made.

Project schedule table

TASK NUMBER	TASK DESCRIPTION	SCHEDULED START	SCHEDULED FINISH	COMMENT
1	Literature review of the concept of shale barriers, experimental studies, and possible stimulation mechanisms	15 Aug 2022	15 Oct 2022	
2	Acquire the shale core samples from the Beetaloo basin and quantify the shale mineralogy and chemoporomechanical properties	15 Sep 2022	15 Jan 2023	
3	Perform triaxial creep tests under different downhole conditions to characterize Beetaloo shale behaviour	15 Nov 2022	15 Jul 2023	
4	Results interpretations	15 May 2023	15 Aug 2023	
5	Develop a decommissioned well leakage simulator to bound potential contaminant flux over the long-term	15 Mar 2023	15 Jul 2023	
6	Define key long-term decommissioned well integrity concepts such as timescale, and contamination grade	15 Jun 2023	15 Jul 2023	
7	Update decommissioned well leakage simulator with Beetaloo shale properties	15 Jul 2023	15 Oct 2023	
8	Project reporting	15 May 2023	15 Nov 2023	
9	Communicate findings to stakeholders	Project duration		

Project schedule report

Task 1 is due for completion October 2022.

Variations to Project Order

Changes to research Project Orders are approved by the GISERA Director, acting with authority, in accordance with the GISERA Alliance Agreement. Any variations above the GISERA Director's delegation require the approval of the relevant GISERA Research Advisory Committee.

The table below details variations to research Project Order.

Register of changes to Research Project Order

DATE	ISSUE	ACTION	AUTHORISATION

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GISERA is a collaboration between CSIRO, Commonwealth and state governments and industry established to undertake publicly-reported independent research. The purpose of GISERA is to provide quality assured scientific research and information to communities living in gas development regions focusing on social and environmental topics including: groundwater and surface water, greenhouse gas emissions, biodiversity, land management, the marine environment, and socio-economic impacts. The governance structure for GISERA is designed to provide for and protect research independence and transparency of research.