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Onshore Gas
Department of Environment and Natural Resources
Northern Territory Government
Floor 1, Goyder Centre, Chung Wah Terrace, Palmerston, NT
PO Box 496, Palmerston, 0831

20 May 2019

Dear Mr. Shaw,

Santos QNT Pty Ltd (Santos) is the operator of Exploration Permit (EP) 161, located approximately 350 km south-east of Katherine in the Northern Territory (NT). On 26 November 2018, Santos received formal advice that the Environmental Management Plan for *Tanumbirini North Water Bore Monitoring Program* (Document Number: MAB-PLN-005, DPIR Ref: E2018/0019-0034), referred to herein as the "EMP", had been approved.

In accordance with Regulation 22 of Petroleum (Environment) Regulations, Santos proposes to modify the regulated activity for the above EMP and is writing to the Minister to give notice and specify details of the proposed modification.

Details of the proposed modification

The modification of the regulated activity relates to the installation of up to two groundwater impact monitoring bores. The impact groundwater monitoring bores are a requirement of the *Draft Code of Practice for Petroleum Activities in the Northern Territory and Preliminary Guideline: Groundwater Monitoring Bores for Exploration Petroleum Wells in the Beetaloo Sub-basin*.

The modification involves the following construction activities:

- 50m x 50 m groundwater monitoring bore lease area within an area that is already cleared; and
- Drilling of up to two groundwater impact monitoring bores.

The proposed new water bores will be located within 300 m of the location provided in Table 1 below. The location of the new impact monitoring bores in relation to the proposed Tanumbirini exploration wells are shown in Figure 1.

Table 1: The location and type of the monitoring bores

Water Bore	Latitude	Longitude
Tanumbirini North Impact Bore	-16.398	134.703

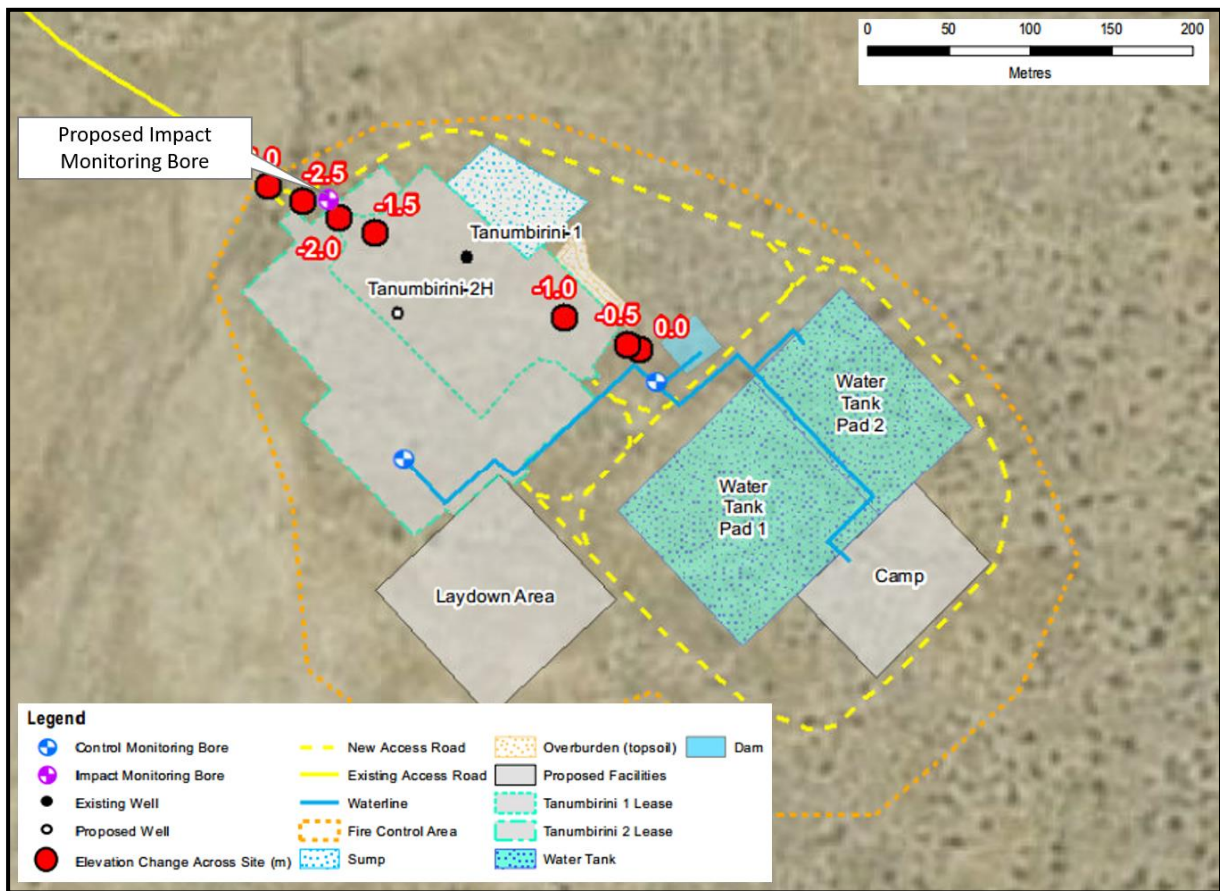


Figure 1 Location of the Water Bores

Modification has not caused a new or an increase in environmental impact or risk

The modification has not caused a new environmental impact or environmental risk and has not resulted in an increase in an existing environmental impact or environmental risk. The proposed activities are located entirely within an area of existing disturbance associated with the Tanumbirini 1 exploration well drilled in 2014.

No vegetation clearing is required. There will be no increase in water extraction and no alteration of the existing monitoring program.

The risk mitigation controls outlined in the existing EMP will not require any amendment to accommodate the modification. Santos has reviewed the EMP and the proposed modification will not result in an increase in likelihood, consequence or overall risk ranking.

Cultural Heritage

The additional activities are located on land that has undergone cultural heritage clearance, sacred site avoidance clearance and AAPA certification. The scope of works and the location of all proposed activities, including the drilling of groundwater monitoring bores are covered by AAPA Certificate C2019/043 (provided under separate cover on 20 May 2019). This approval certificate covers works including 'water bore installation'.

Stakeholder Engagement

Santos QNT Pty Ltd has continued to engage with key stakeholders on an ongoing basis. Contact has been maintained as per the existing Land Access Agreement (LAA) and in accordance with the LAA, the landholder will be notified of these works.

If you require any further information or have any queries please don't hesitate to contact me via david.close@santos.com or on (08) 8116 7897.

Yours Sincerely,

A handwritten signature in blue ink, appearing to read 'D. Close', is positioned below the 'Yours Sincerely,' text.

David Close
General Manager – Onshore New Ventures