

## Meeting Minutes

### Meeting with Tony Laws – Broome RRRP

Project: Broome Regional Resource Recovery Facility	
Attendees	Meeting Information
Mr. Sam Mastrolembo - Shire of Broome Mr. Jeremy Macmath - Shire of Broome Mr. Tony Laws Mr. Ronan Cullen - Talis Consultants Mr. Gray Ralph - Talis Consultants Mr. Robert Woods - Water Corporation	<b>Date:</b> Thursday 25 <sup>th</sup> of February
	<b>Time:</b> 11.00am till 12.30pm (approximately)
	<b>Location:</b> Talis Consultants – Boardroom

The meeting was arranged by the Shire of Broome (the Shire) to engage with Mr. Laws on the hydrogeological aspects of the RRRP project. Mr. Laws was identified as a key stakeholder based on his significant knowledge and experience of the hydrogeological regime across the Broome Region. Mr. Laws has also had some involvement in previous Site Selection works for the RRRP including the preparation of Report on the Proposed Locations for the future RRRP site for Broome in 2015 (Laws Report, 2015)

The focus of the meeting was to introduce Mr. Laws to the RRRP, the various investigations and key findings to date. In preparation for the meeting Tony Laws had reviewed the following reports prepared by Talis available from the RRRP website:

- Site Comparison Report;
- Site D2 Site Investigations Report, and;
- Site G1 Site Investigations Report.

Overall, Mr Laws indicated no major concerns about the investigations undertaken to date or key findings in relation to the hydrogeology on or surrounding the various Sites. In addition, previous concerns raised within the Laws Report 2015 are largely addressed since the location of the RRRP has moved from Site D1(?) (north of the Cape Leveque Road and McGuigan Road intersection) to Site D2 and is therefore no longer considered to be in the catchment of Coconut Well private bores.

Mr Laws did raise a variety of comments on the various reports that were discussed during the meeting. The following table provides a summary of the key topics discussed including the key comments raised by Mr. Laws and the responses discussed.

#	Topics / Mr. Laws Comments	Response
1	<i>Potential risk from dense non-aqueous phase liquids (DNAPL) to the Broome TWS borefield.</i>	After discussion, including consideration of source-pathway-receptor consistent with regulatory requirements, it was agreed there was no plausible exposure pathway by which DNAPL could impact on the TWS and therefore the potential risk was negligible.
2	<i>Queries raised on the Hydraulic conductivity (k) values provided in Site Investigation Report<sup>1</sup>.</i>	After discussion it was agreed the values for hydraulic conductivity (k) contained in the Site Investigation Report are reasonable for the assessment of risk posed by the Broome RRRP to the identified receptors. It was pointed out by Tony that the aquifer comprises a more transmissive lower facies (layers) and consequently use of a higher k value would be appropriate for the assessment of seepage velocity across the lower half of the aquifer should this be required in future assessments.
3	<i>A groundwater mound exists beneath Cable Beach north due to recharge across more permeable dune sands.</i>	It was noted groundwater mounding occurs beneath coastal dunes caused by localised recharge and confirmed by studies including assessment of chloride distribution. <sup>2</sup> Site D2 is therefore not within the catchment of Cable Beach north private bores and consequently Cable Beach north is not considered to be a downstream receptor.
4	<i>Queries were raised in relation to detail of the Monitoring Program to be adopted at Site D2.</i>	Talis outlined that in accordance with regulatory requirements a comprehensive environmental program will be devised at a later stage of the project and be submitted as part of the various Approvals applications. The environmental program will identify the proposed location of monitoring locations, the suite of analytes to be assessed, monitoring timeframes and relevant reporting requirements.
5	<i>Operation of a production bore has the potential to cause saline intrusion from a saltwater wedge which has been identified in</i>	The RRRP will require a small groundwater allocation of approximately 2 ML/year primarily for dust suppression. This will be obtained from production bores installed on-site. Prior to operation and as part of licencing

<sup>1</sup> Talis (2021) Site Investigation Report – Broome RRRP Site D2, and Talis (2021) Site Investigation Report – Broome RRRP Site G1

<sup>2</sup> Laws, T. (1985) Groundwater conditions in the Broome – Cable Beach – Coconut Wells Area. Hydrogeology Report No. 2638 (GSWA File No. 55/85)

#	Topics / Mr. Laws Comments	Response
	<i>resistivity logs of bores drilled at horticultural lots to the south.</i>	requirements an assessment of potential up-coning of saline water will be undertaken. As the extraction rate is relatively low in comparison to surrounding production bores, the risk of up-coning of saline water is extremely low.
6	<i>Water Corporation Assessment</i>	Mr. Woods outlined the extent and key findings arising from Water Corporation's own internal assessment of the proposed landfill at Site D2 to the Broome Town Water Supply. Water Corporation has confirmed it is a low risk to the Town Water Supply borefield.
7	<i>Laws Report 2015</i>	Talis outlined that the community had raised a variety of comments in relation to the Laws Report 2015. Talis suggested that the information collated from the various site investigations and the advice from Water Corp conflicted with the information provided within the Laws Report. It was agreed by all parties at the meeting that Site D2 was in a different part of the catchment and the Coconut Well bores are not downstream receptors. Talis suggested that if further queries were raised by the community in relation to the Laws Report 2015, a response may have to be released. The Shire committed to providing the response to Mr Laws prior to release.
8	<i>Conclusion</i>	The Shire thanked Mr Laws for his time and valuable input to the project and confirmed they would keep him informed of any key developments in the project moving forward.

Ends.