

Subject: FW: Query regarding Santos' Leewood irrigation project

In response to your query, please find following some information to assist you in responding to the CCC.

- Treated water from the water treatment plant at Santos' Leewood facility which is used for irrigation must be tested under various approvals and the Environment Protection License (EPL) issued by the EPA.
- Quality parameters tested are: alkalinity, ammonia, bicarbonate, boron, calcium, carbonate, chloride, chlorine (total residual), electrical conductivity (EC), fluoride, hardness (CaCO₃), magnesium, nitrate, nitrite, nitrogen (total), pH, phosphorus, potassium, silica, sodium, sodium absorption ratio, sulfate, total dissolved solids, and turbidity.
- Santos tests the electrical conductivity, pH, sodium and calcium levels onsite. This testing is continuous and occurs weekly. Samples are also sent away to a NATA accredited lab for monthly testing of all parameters.
- Santos submitted test results to the EPA after the commissioning phase to demonstrate and confirm that the water treatment plant was working as expected.
- Santos' Water Treatment Plan contains a Trigger Action Response Plan (TARP). This TARP considers possible scenarios at the water treatment plant and defines the actions and notification steps required in response to the various scenarios. There is a trigger in the TARP of water not meeting electrical conductivity (EC) or pH requirements. EC is representative of the other parameters – if EC increases then the other parameters would also. If this occurs it triggers the TARP, alarms are initiated, water flows are stopped if necessary, water is re-treated, and regulators are notified if necessary.
- Santos is required to publish the testing results collected on the company website to comply with the *Protection of the Environment Operations Act 1997*. The results are also reported to the EPA annually, or whenever there is an exceedance.

Regards

Sarah

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