



Shane Rattenbury MLA

Attorney-General

Minister for Consumer Affairs

Minister for Water, Energy and Emissions Reduction

Minister for Gaming

Member for Kurrajong

22/31221

RESPONSE TO QUESTION ON NOTICE
Questions on Notice Paper No 15
Question No. 692

MS LAWDER: To ask the Minister for Water, Energy and Emissions Reduction—

- (1) Can the Minister confirm if the MIS08 standard as specified is used by the Directorate?
- (2) Given that MIS08 uses Bureau of Meteorology data from 1968-1977 and water quality parameters from total suspended solids, total phosphorus (TP) and total nitrates/nitrogen (TN) from Fletcher 2004, based on Melbourne and Sydney data, how does this equate with assurances that local/recent data is included?
- (3) Can the Minister clarify which is used, MIS08 MUSIC model, or other; if another model is used, what is used?
- (4) Did Alluvium 2015 carry out research works for Healthy Waterways?
- (5) Did Alluvium use Fletcher (2004) parameters or the GHD (2015) data?
- (6) What was the GHD data used for?
- (7) Was the data collected by Waterwatch baseflow or peak flow?
- (8) Were water samples collected recently using autosamplers and grab samples tested by a NATA certified lab (ie, measuring to low levels of TN and TP); if so, can the Minister provide copies of these?

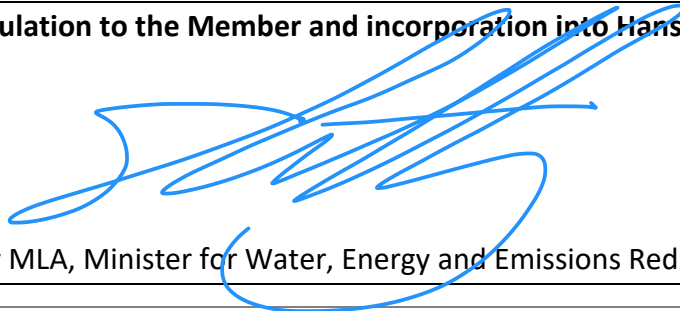
MINISTER RATTENBURY - The answer to the Member's question is as follows:

- (1) The MIS08 standard is used by the Directorate in the construction of water quality assets. In situations where a type of asset is new to the Territory, the MIS08 standards may not appropriately specify their design. In such instances, a Design Approach Report has been drafted and the design approach agreed with asset owners. The Design Approach Report then serves as a template for expanding MIS08. The Directorate has contributed to the

expansion of MIS08 in this manner to enable several new kinds of water quality assets to be constructed in the Territory.

- (2) The best available and appropriate data are used for modelling water quality in catchments and the design of water quality assets. The Bureau of Meteorology and Fletcher 2004 data referred to are considered the industry standard for the ACT. Appropriate local data are used when available.
- (3) MUSIC models are used, as per the response in (1), to design assets. Flood models are also used to help plan the assets.
- (4) Assuming 'Alluvium 2015' refers to the report *Water Quality Improvement Options for 4 Priority Catchments in the ACT: Lake Tuggeranong Catchment*, October 2015, that contract was for services as a part of the selection process for the locations and types of water quality assets.
- (5) Alluvium 2015 used both the GHD MUSIC model and Fletcher 2004.
- (6) The GHD (2015) data and report was a part of the Territory's due diligence, in relation to the original Healthy Waterways contract, in assuring that the selection of catchments for water quality works was appropriate.
- (7) Baseflow. Waterwatch volunteers are not encouraged to operate in high flow situations.
- (8) The water quality monitoring data supplied in relation to Questions on Notice 175, 477 and 582 are from NATA certified labs.

Approved for circulation to the Member and incorporation into Hansard.



Shane Rattenbury MLA, Minister for Water, Energy and Emissions Reduction Date:.....2/5/22.....

This response required 3 hrs and 10 mins to complete, at an approximate cost of \$312.59.