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House	Council
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Title	WATER - YULE RIVER BORE FIELD
Question Description	Yule Bore field in the Pilbara

[3158] 2843. Hon Robin Chapple to the Minister for Regional Development representing the Minister for Water:

Regarding the Yule Bore field in the Pilbara, and with reference to the document uploaded at <https://robinchapple.com/longitudinal-and-latitudinal-coordinates-bores-yule-borefield-pilbara>, I ask:

- (a) what were the Recharge Classes, the corresponding assigned m AHD Variable Performance Indicator Levels, and the actual recorded m AHD levels, for each of the bores in the referenced document, for each monitoring period, for each of the past 10 reporting years;
- (b) were there any monitoring bores, in addition to those listed in the referenced document, from which data was recorded in the Yule Bore field (YB):
 - (i) if yes to (b), could the Minister identify these bores;
 - (ii) if yes to (b), what were the Recharge Classes, the corresponding assigned m AHD Variable Performance Indicator Levels, and the actual recorded m AHD levels for each of those bores, for each monitoring period, for each of the past 10 reporting years; and
 - (iii) if yes to (b), what were the Performance Indicator Levels, as measured in TDS mg/L, and the actual recorded TDS mg/L levels, for each of those bores, for each monitoring period, for each of the past 10 reporting years;
- (c) what were the Performance Indicator Levels, as measured in TDS mg/L, and the actual recorded TDS mg/L levels, for each of the listed bores referenced in the document, for each monitoring period, for each of the past 10 reporting years;
- (d) what specific studies have been undertaken in relation to the health of groundwater-dependent vegetation within the YB within the past 10 years;
- (e) what is the general health of groundwater dependent vegetation within the YB at this time; and
- (f) what monitoring locations have been set up to assess ecological health within the YB?

Hon D.J. Kelly replied:

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(a) Of the monitoring (observation) bores identified in the document referred to by the Member <https://robinchapple.com/longitudinal-and-latitudinal-coordinates-bores-yule-borefield-pilbara>, only 8/04, 10/04, 12/04, 13/04, 14/04, 15/04, 17/04, 21/04, 34/04 and 37/04 are recognised with a Recharge Class and associated Trigger, Criteria and Target levels. Setting of recharge classes commenced for the 2017-18 water year.

Site

Recharge class

Trigger (mAHD)

Criteria (AHD)

Target (mAHD)

Bore 8/04

1 Drought

8.27

7.28

-

2 Dry

9.23

8.25

-

3 Average

-

9.23

10.78

4 Wet

-

-

10.78

Bore 10/04

1 Drought

8.47

7.45

-

2 Dry

9.86

8.88

-

3 Average

-

9.86

12.18

4 Wet

-

-

12.18

Bore 12/04

1 Drought

12.08

11.09

-

2 Dry

14.30

13.32

-

3 Average

-

14.30

15.39

4 Wet

-

-

15.39

Bore 13/04

1 Drought

15.59

14.61

-

2 Dry

17.53

16.55

-

3 Average

-

17.53

18.34

4 Wet

-

-

18.34

Bore 14/04

1 Drought

17.44

16.46

-

2 Dry

18.77

17.79

-

3 Average

-

18.77

19.82

4 Wet

-

-

19.82

Bore 15/04

1 Drought

22.35

21.37

-

2 Dry

23.12

22.14

-

3 Average

-

23.12

24.22

4 Wet

-

-

24.22

Bore 34/04

1 Drought

9.41

8.42

-

2 Dry

10.06

9.07

-

3 Average

-

10.06

10.68

4 Wet

-

-

10.68

Bore 37/04

1 Drought

8.12

7.19

-

2 Dry

8.87

7.88

-

3 Average

-

8.87

10.32

4 Wet

-

-

10.32

Bore 17/04

1 Drought

28.28

27.98

-

2 Dry

28.96

28.66

-

3 Average

-

28.96

29.48

4 Wet

-

-

29.48

Bore 21/04

1 Drought

31.45

31.16

-

2 Dry

32.03

31.73

-

3 Average

-

32.03

32.48

4 Wet

-

-

32.48

The measured mAHD (metres Australian Height Datum) levels of these sites for the last ten years are available.

[See tabled paper no.]

Bores 3, 8A, 18B, 20, 21, 14/70, 15/73, 19/73, 20/73, 21/73, 4/96, 6/96 and 8/96 do not have recharge Classes and associated Trigger, Criteria and Target levels associated with them but are included in the monitoring program.

The measured mAHD (metres Australian Height Datum) levels of these sites for the last ten years are available.

[See tabled paper no.]

No monitoring is required of bore 22/73, which was last used as a production bore in 1998.

(b) Yes

(i) Bores 28/10, 1/11 and 3/11.

(ii) These bores do not have recharge Classes and associated Trigger, Criteria and Target levels associated with them but are included in the monitoring program.

The measured mAHD levels of these sites are also available.

[See tabled paper no.]

(iii) There is no specific Performance Indicator related to TDS of raw water samples from these monitoring bores. No TDS sampling is required or undertaken.

(c) There is no specific Performance Indicator related to TDS of raw water samples from monitoring bores at Yule Borefield. No TDS sampling is required or undertaken.

(d) Vegetation Condition Monitoring was undertaken between March 2009 and November 2011 and then annually since 2017 in accordance with Department of Water and Environmental Regulation (DWER) requirements.

(e) The Vegetation Condition monitoring reports show conditions vary from good to poor, with poor areas exhibiting the impacts of grazing, weeds, and recent floods.

(f) Monitoring sites have been set up at MM1(37/04), MI(12/04), MA(14/04), MB(15/04), MC(17/04), MK(10/04).

