

## D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

### Nov 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (10 Nov) (cm)	Water Level (24 Nov) (cm)
1	25.3	7.2	0.5	4.4	6.2	150	140
2	26.1	7.3	0.5	6.9	6.3	130	120
3	24.1	7.3	0.5	8.5	4.7	170	160
4	27.0	7.4	0.4	2.5	5.4	170	160

### Dec 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (8 Dec) (cm)	Water Level (22 Dec) (cm)
1	18.0	6.5	0.6	5.3	6.6	130	130
2	18.8	6.6	0.6	8.1	6.6	120	110
3	18.3	6.7	0.6	8.1	5.0	160	150
4	19.1	6.7	0.5	4.1	5.8	150	140

### Jan 2021

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (12 Jan) (cm)	Water Level (26 Jan) (cm)
1	23.7	6.7	0.5	4.9	6.4	120	100
2	24.5	6.7	0.6	7.4	6.4	100	90
3	24.0	6.8	0.6	7.1	4.8	130	120

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (12 Jan) (cm)	Water Level (26 Jan) (cm)
4	24.8	6.8	0.5	3.8	5.6	130	120

**Feb 2021**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (8 Feb) (cm)	Water Level (25 Feb) (cm)
1	23.1	7.1	0.8	10.4	7.1	90	70
2	23.9	7.2	0.9	16.1	7.1	70	60
3	23.4	7.3	0.9	12.3	5.8	110	100
4	24.2	7.3	0.8	6.6	6.3	110	90

**Mar 2021**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (9 Mar) (cm)	Water Level (23 Mar) (cm)
1	24.0	7.5	0.9	13.4	6.6	60	60
2	24.8	7.6	1.0	12.7	6.4	60	50
3	24.3	7.7	1.0	13.1	5.5	90	80
4	25.1	7.9	0.9	5.2	5.8	80	80

**Apr 2021**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (7 Apr) (cm)	Water Level (20 Apr) (cm)
1	28.4	8.0	0.7	14.9	9.0	40	40
2	29.6	7.8	0.8	6.5	8.3	40	30
3	30.2	8.0	0.8	4.9	8.0	70	70
4	30.5	7.9	0.7	8.2	7.8	60	50

Action / Limit Level	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
Action Level	-	<6.5 or >8.0	>2	-	<2	<150 or >250
Limit Level	-	<6.0 or >8.5	>5	-	<1	-

Notes: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underlined** indicate that limit level is reached  
 Additional water level monitoring was conducted

**Table D2. Water quality monitoring (Laboratory Testing) at WRA**

**Apr 2021**

Monitoring Location	Ammonia-N (mg/L)	NOx-N (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
Cell 1-1	0.03	0.02	0.05	<0.01	<2
Cell 1-2	0.02	0.02	0.05	<0.01	<2
Cell 1-3	0.02	0.02	0.05	<0.01	<2
Cell 2-1	0.03	0.02	0.04	<0.01	<2
Cell 2-2	0.03	0.01	0.05	<0.01	<2
Cell 2-3	0.03	0.01	0.06	<0.01	<2
Cell 3-1	0.03	0.02	0.04	<0.01	<2
Cell 3-2	0.03	0.02	0.04	<0.01	<2
Cell 3-3	0.03	0.02	0.04	<0.01	<2
Cell 4-1	0.04	0.02	0.05	<0.01	<2
Cell 4-2	0.04	0.01	0.05	<0.01	<2
Cell 4-3	0.04	0.02	0.06	<0.01	<2
Action Level	>3	>5	>5	-	-
Limit Level	>6	>10	>10	-	-

Note: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underlined** indicate that limit level is reached.  
 The additional in situ water quality monitoring was carried out on 21 April 2021.