

D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

May 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (regular monitoring) (cm)	Additional Water Level Monitoring (cm)
1	31.6	7.6	0.17	16.4	6.32	90	105
2	31.2	7.2	0.21	21.1	6.22	40	70
3	31.3	7.7	0.20	14.2	4.14	110	120
4	31.7	7.9	0.20	8.9	4.21	70	120

Jun 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (regular monitoring) (cm)	Additional Water Level Monitoring (cm)
1	35.2	7.81	0.28	13.4	5.28	160	160
2	34.8	7.44	0.32	16.1	5.42	140	140
3	34.9	7.50	0.31	11.4	4.95	180	180
4	35.3	7.82	0.31	7.8	4.79	200	200

Jul 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (regular monitoring) (cm)	Additional Water Level Monitoring (cm)
1	29.1	7.1	0.6	4.1	5.42	150	120
2	28.7	6.9	0.7	7.6	5.32	120	110
3	28.8	6.9	0.7	8.1	3.62	170	160

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (regular monitoring) (cm)	Additional Water Level Monitoring (cm)
4	29.2	7.4	0.7	3.8	3.42	170	160

Aug 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level Monitoring (cm)		
						Regular 1	Regular 2	Additional
1	32.5	7.2	0.5	2.4	5.3	180	180	180
2	32.1	7.2	0.5	2.1	5.2	150	150	150
3	32.2	7.3	0.5	1.9	3.8	140	140	150
4	32.6	7.4	0.5	1.4	3.6	140	140	150

Sep 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level Monitoring (cm)		
						Regular 1	Regular 2	Additional
1	31.6	6.9	0.4	5.5	4.9	175	170	150
2	32.7	7.1	0.5	7.1	6.1	160	160	140
3	33.0	7.4	0.3	6.9	6.8	200	200	180
4	31.6	7.4	0.4	2.3	4.0	215	200	190

Oct 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level Monitoring (cm)			
						Additional 1	Regular 1	Additional 2	Regular 2
1	27.9	7.3	0.4	4.3	6.6	170	160	160	150
2	28.7	7.4	0.5	7.8	6.6	160	150	150	140
3	26.7	7.5	0.5	9.2	4.4	200	200	200	170
4	29.6	7.6	0.4	2.8	5.7	200	200	170	170

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
 Oct 2020**

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	0.03	0.01	0.03	<2
Cell 1-2	0.02	0.04	<0.01	0.03	<2
Cell 1-3	0.01	0.03	<0.01	0.03	<2
Cell 2-1	0.02	0.01	0.01	0.05	<2
Cell 2-2	0.01	<0.01	<0.01	0.08	4
Cell 2-3	<0.01	0.01	<0.01	0.05	<2
Cell 3-1	0.01	0.01	0.01	0.04	<2
Cell 3-2	0.01	0.02	0.01	0.04	<2
Cell 3-3	<0.01	0.02	0.01	0.04	2
Cell 4-1	<0.01	0.02	0.02	0.03	2
Cell 4-2	<0.01	0.01	0.01	0.03	<2
Cell 4-3	<0.01	0.02	0.01	0.03	<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 19 October 2020.