

Appendix D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

May 2018

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	30.6	7.90	0.21	15.6	9.4	130	120
2	30.0	8.00	0.25	13.7	9.8	100	100
3	31.5	8.01	0.21	12.4	9.5	120	120
4	32.0	8.11	0.18	10.1	7.7	120	120

June 2018

Cell No.	Temp. (°C)	pH	Additional pH monitoring	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	31.6	7.90	7.81	0.18	5.6	9.8	160	160
2	31.3	7.90	7.82	0.22	7.3	10.2	130	130
3	31.8	7.90	7.88	0.18	7.1	9.8	170	160
4	32.4	8.00	7.94	0.15	3.8	8.1	180	170

July 2018

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	33.6	7.88	0.41	5.8	7.4	190	190
2	33.9	7.83	0.45	7.5	7.6	170	170
3	34.1	7.92	0.41	7.3	7.3	210	210
4	34.7	7.99	0.38	4.0	6.5	200	200

August 2018

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	29.7	7.20	0.16	8.5	7.74	180
2	29.2	7.30	0.20	10.2	7.96	170
3	29.9	7.30	0.16	10.0	7.60	210
4	30.2	7.40	0.13	6.7	6.88	210

September 2018

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	33.9	7.20	0.15	4.6	6.04	180
2	33.3	7.30	0.16	5.2	5.89	180
3	33.0	7.60	0.17	5.6	6.88	200
4	33.3	7.70	0.17	5.8	6.62	200

October 2018

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	31.9	7.5	0.14	5.7	6.44	190
2	31.5	7.6	0.15	6.8	6.38	180
3	31.4	7.7	0.16	8.7	7.02	180
4	31.9	7.7	0.16	5.6	6.89	180

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 underline** indicate that limit level is reached
 # Additional pH and/ or water level monitoring was conducted

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

September 2018

Cell No.	Ammonia (mg/L)	Total oxidized nitrogen (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
1	0.02	0.02	<0.01	0.03	<2
2	0.02	0.01	<0.01	0.03	<2
3	0.02	0.02	<0.01	0.03	<2
4	<0.01	<0.01	<0.01	0.04	<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 underline** indicate that limit level is reached.
 The additional in situ water quality monitoring was carried out on 19 September 2018.