

Appendix D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

May 2017

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turbidity (NTU)	DO (mg/L)	Water Level (cm)
1	28.1	8.13	0.34	6.7	8.3	160
2	27.6	8.09	0.31	5.4	7.9	140
3	28.3	8.11	0.33	6.6	7.8	160
4	28.5	8.23	0.33	8.9	7.9	140

June 2017

Cell No.	Temp. (°C)	pH	Additional pH monitoring	Salinity (ppt)	Turbidity (NTU)	DO (mg/L)	Water Level (regular monitoring) (cm)	Water Level (additional monitoring)# (cm)
1	30.8	7.15	7.32	0.33	5.1	6.6	190	190
2	31.0	6.84	6.89	0.25	4.7	6.9	180	180
3	30.9	7.33	7.50	0.26	5.5	7.1	220	210
4	30.4	7.31	7.49	0.27	6.6	7.2	220	210

July 2017

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turbidity (NTU)	DO (mg/L)	Water Level (cm)
1	33.4	7.43	0.13	6.6	6.3	220
2	33.2	7.00	0.13	15.1	6.8	180
3	32.6	7.61	0.14	14.4	7.0	210
4	33.8	7.60	0.15	19.3	6.9	210
Action Level	-	<6.5 or >8.0	>2	-	<2	<150 or >250
Limit Level	-	<6.0 or >8.5	>5	-	<1	-

Note: 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 water level monitoring was conducted on 27 June 2017.

August 2017

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turbidity (NTU)	DO (mg/L)	Water Level (cm)
1	31.6	7.51	0.12	2.6	4.2	200
2	31.4	7.22	0.12	5.6	4.7	190
3	30.8	7.58	0.13	6.2	4.9	210
4	32.0	7.58	0.14	5.5	4.8	210

September 2017

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turbidity (NTU)	DO (mg/L)	Water Level (cm)
1	33.0	7.74	0.12	7.5	5.5	180
2	33.2	7.45	0.11	10.8	6.1	170
3	33.3	7.39	0.10	8.3	5.9	190
4	33.2	7.28	0.11	8.2	5.7	190

October 2017

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turbidity (NTU)	DO (mg/L)	Water Level (cm)
1	24.4	8.11	0.16	9.2	6.0	170
2	24.6	8.05	0.15	12.5	6.6	170
3	24.7	7.99	0.14	10.0	6.4	160
4	24.6	7.88	0.15	9.9	6.1	160
Action Level	-	<6.5 or >8.0	>2	-	<2	<150 or >250
Limit Level	-	<6.0 or >8.5	>5	-	<1	-

Note: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underline** indicate that limit level is reached.

Table D2. In situ water quality at WRA

September 2017

Cell No.	Ammonia (mg/L)	Total oxidized nitrogen (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
1	0.01	<0.01	0.03	<0.01	<2
2	0.01	<0.01	0.03	<0.01	<2
3	0.04	<0.01	0.03	<0.01	<2
4	0.02	<0.01	0.04	<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 underline** indicate that limit level is reached. The additional in situ water quality monitoring was carried out on 18 September 2017.