

Appendix J

Operational Phase Water Quality Monitoring Results

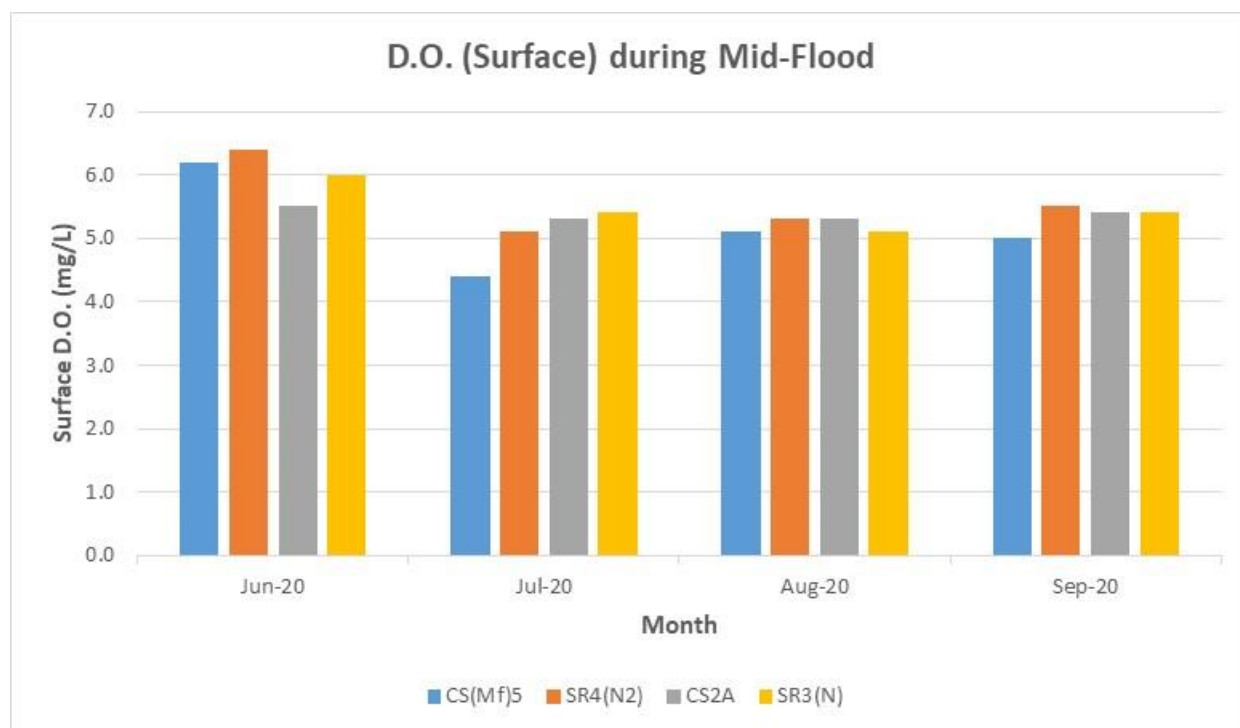
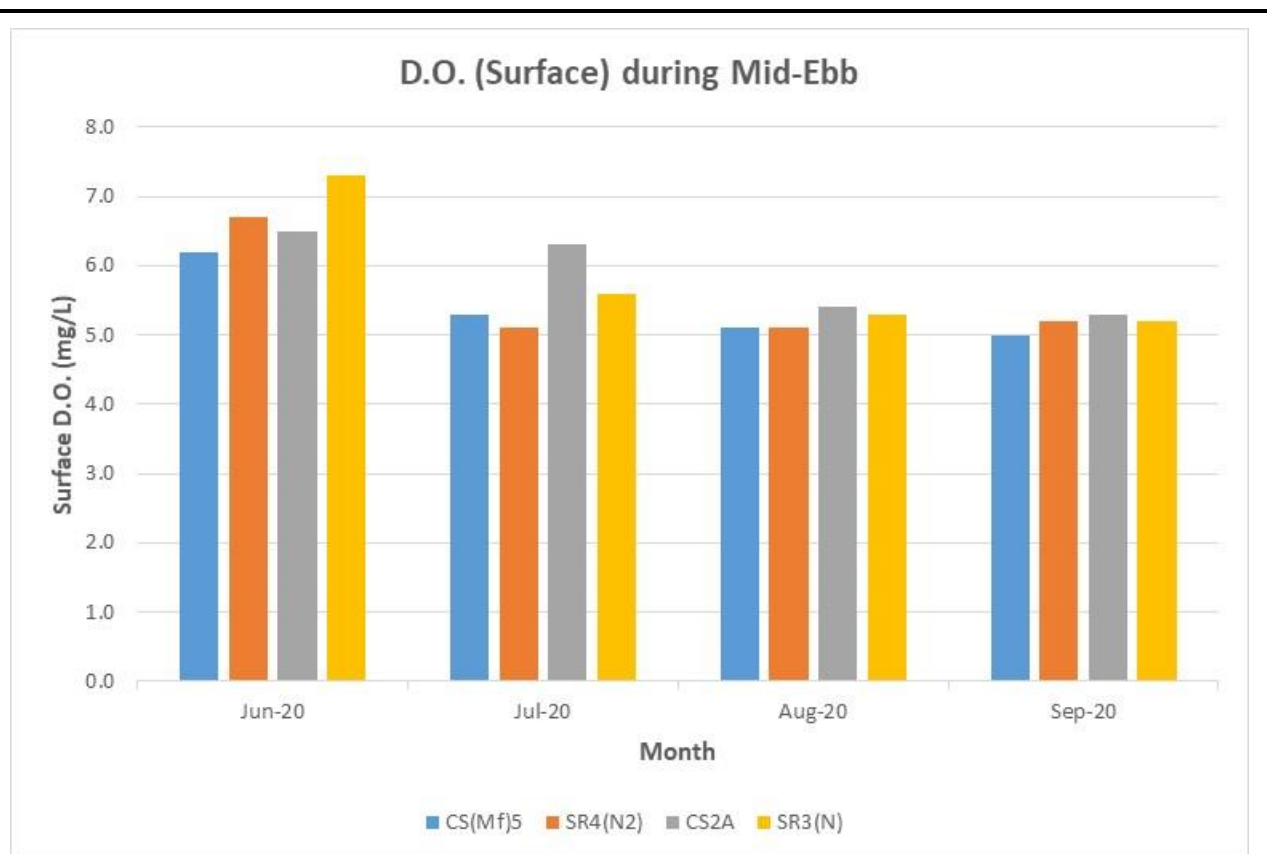


Figure J1 Operational Phase Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 June 2020 and 30 September 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_September2020_graphs_Rev a.xls



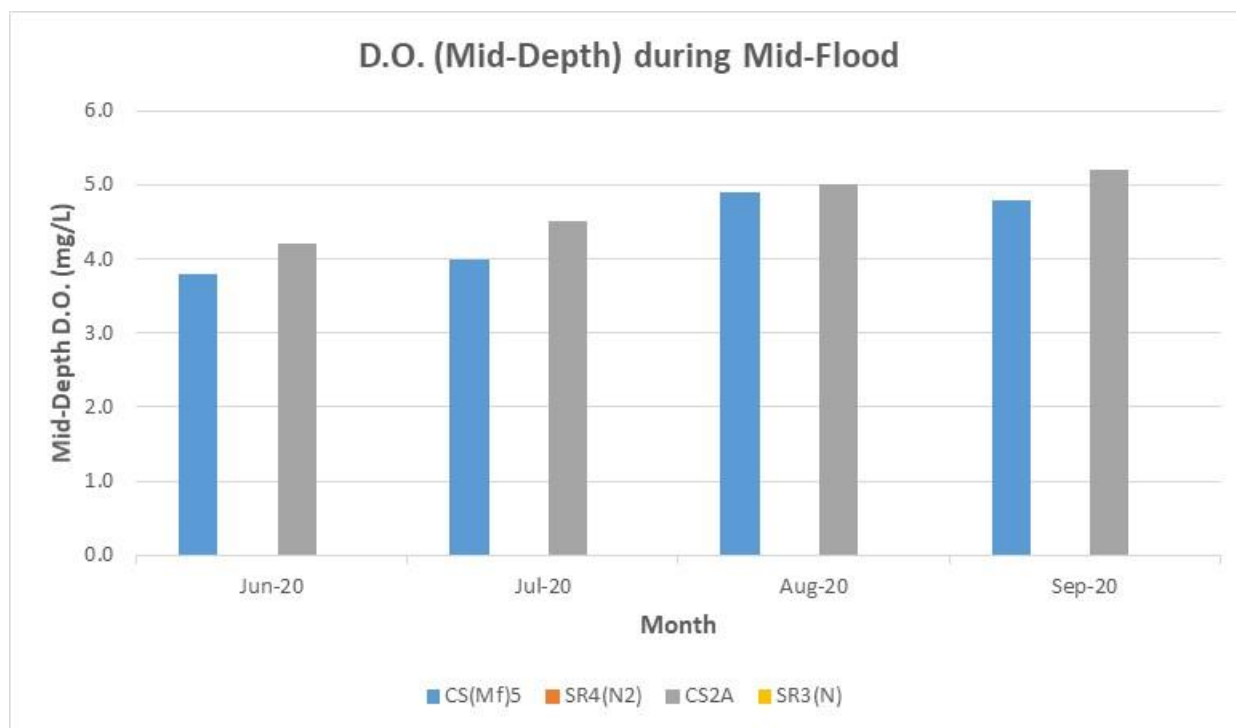
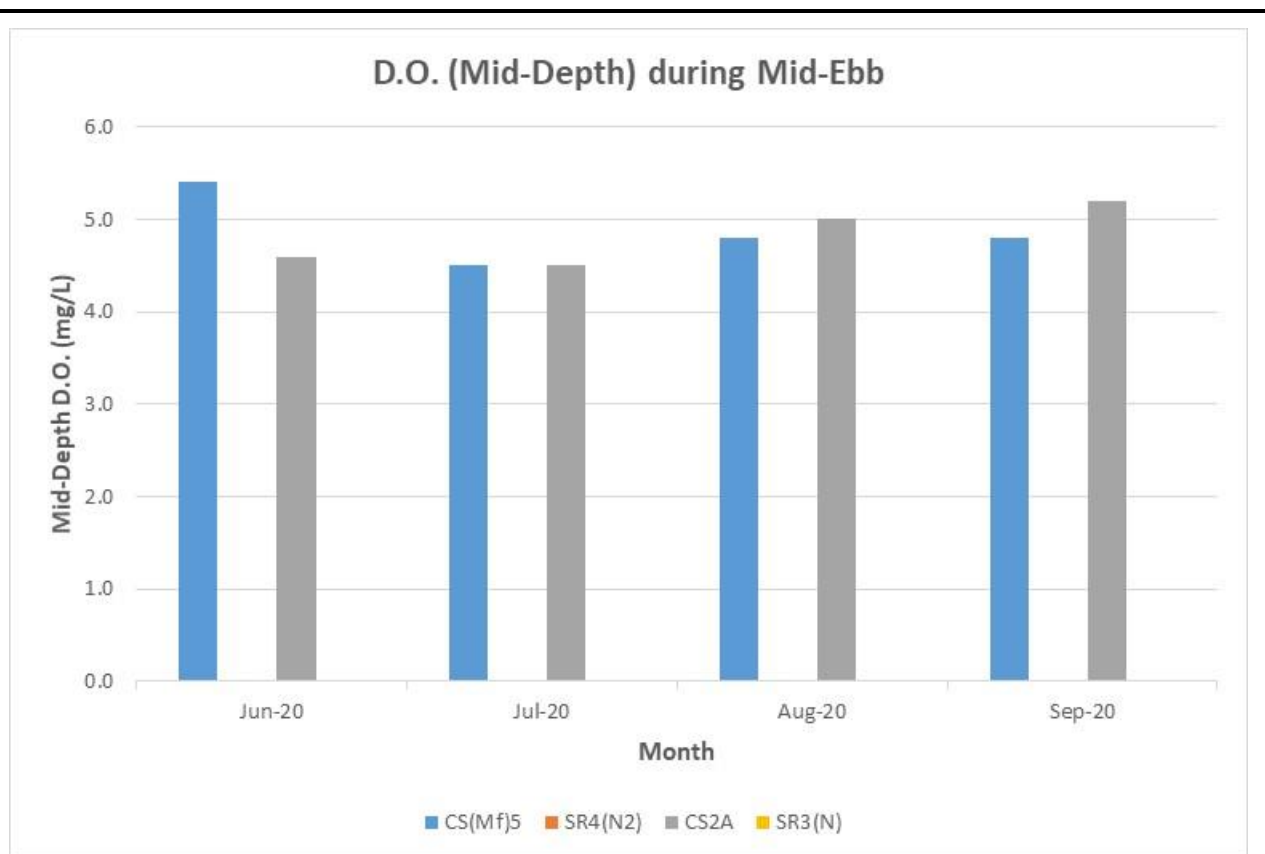


Figure J2 Operational Phase Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 June 2020 and 30 September 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_September2020_graphs_Rev a.xls



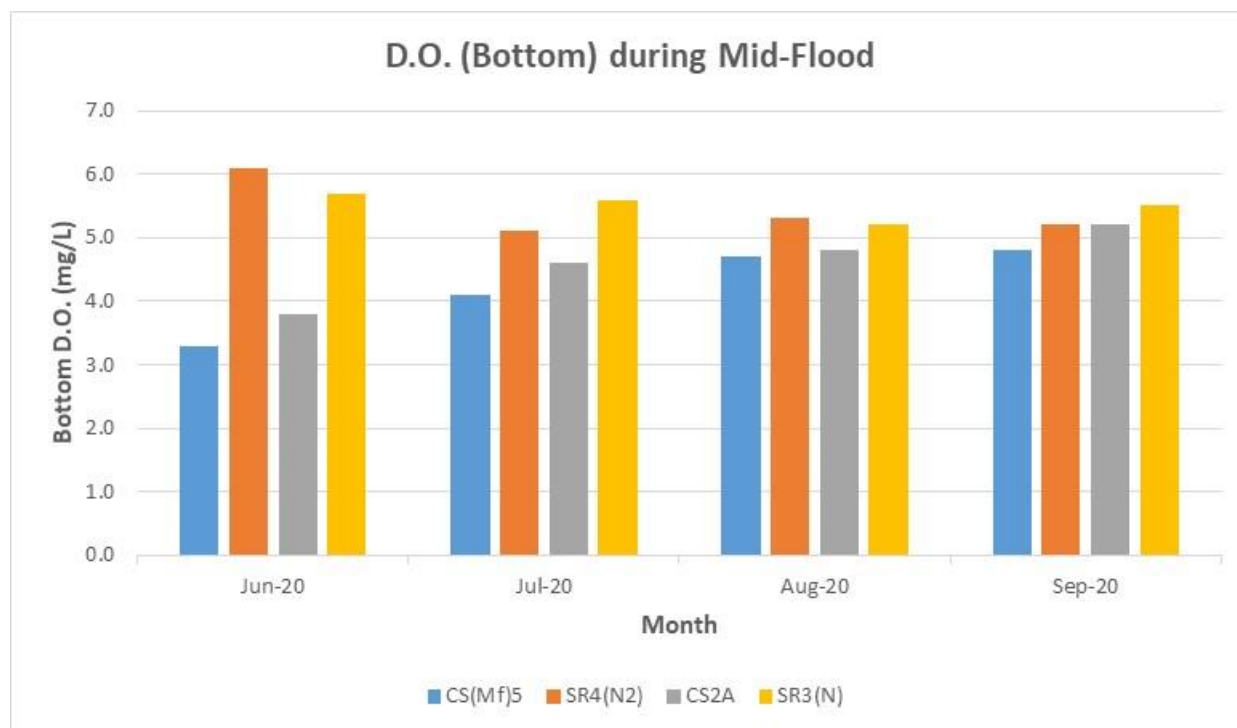
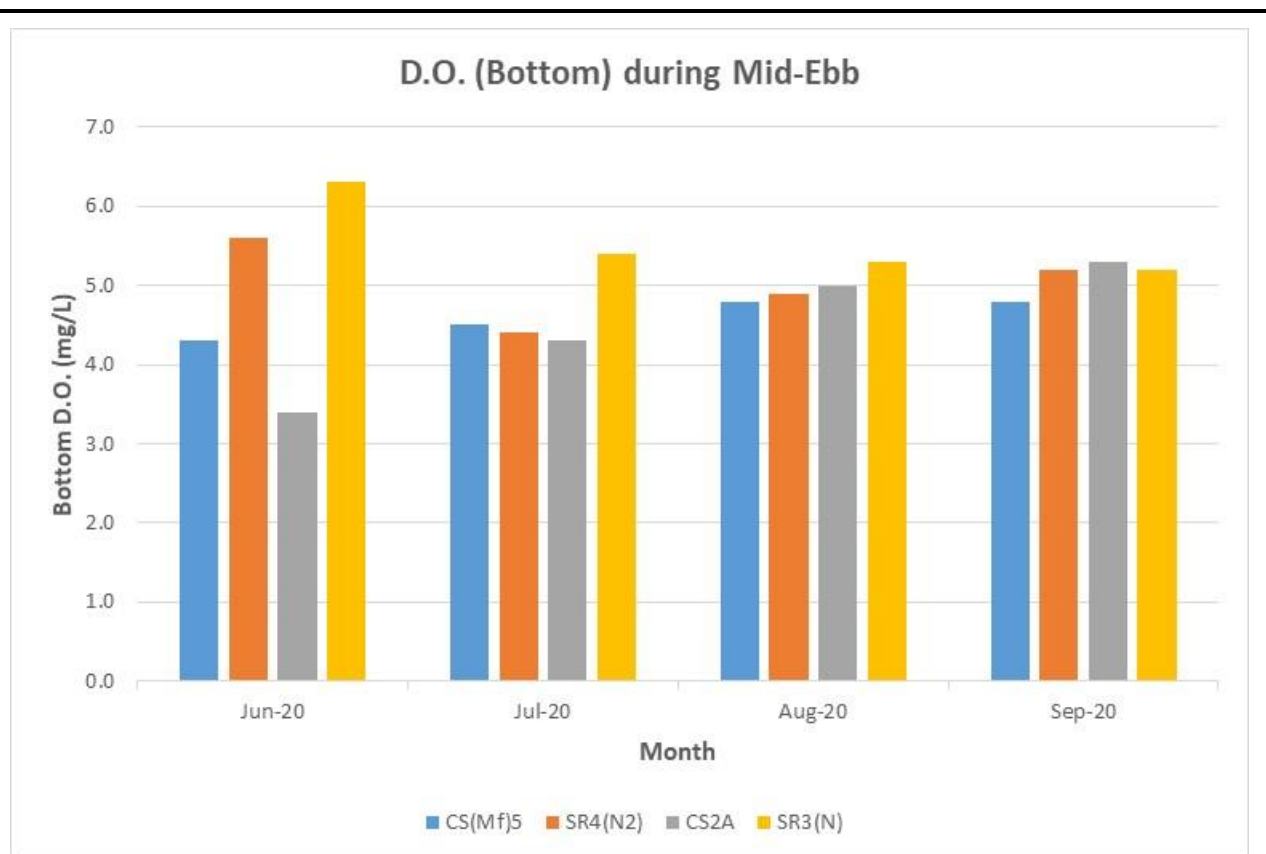


Figure J3 Operational Phase Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters between 1 June 2020 and 30 September 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_September2020_graphs_Rev a.xls



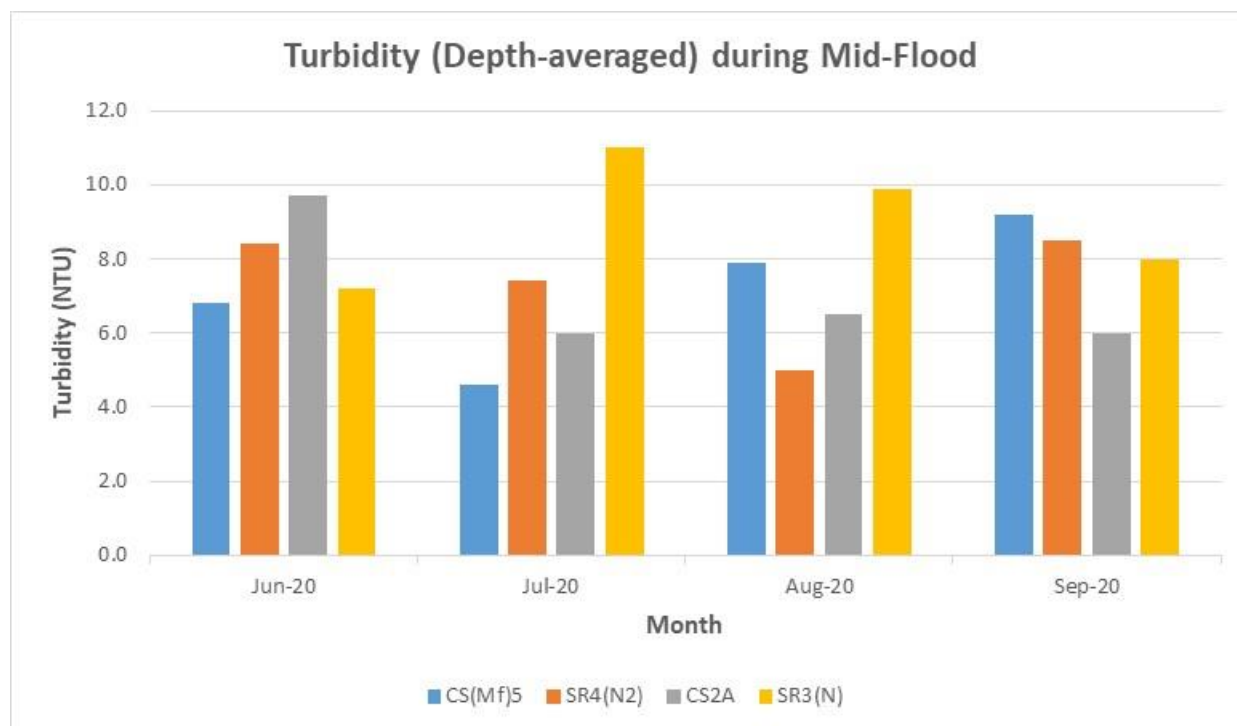
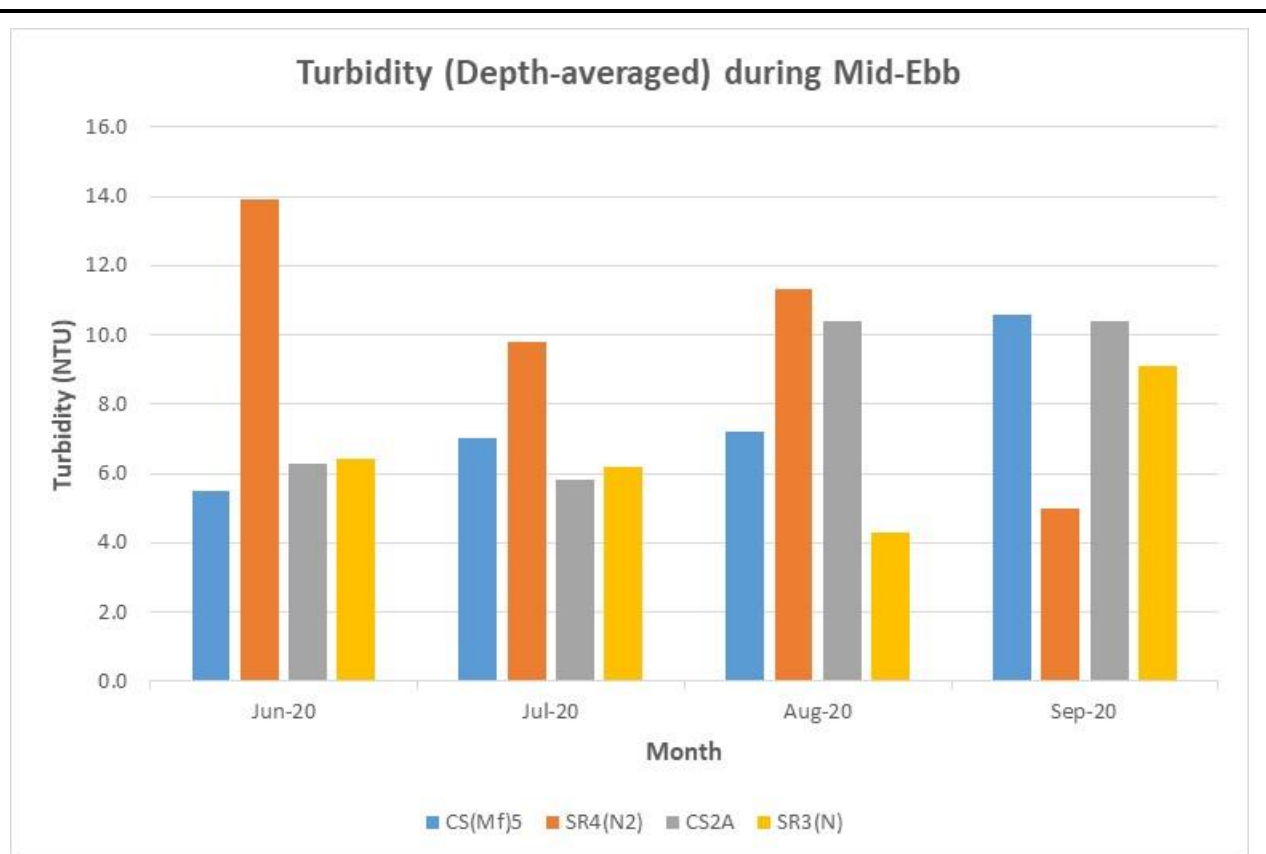
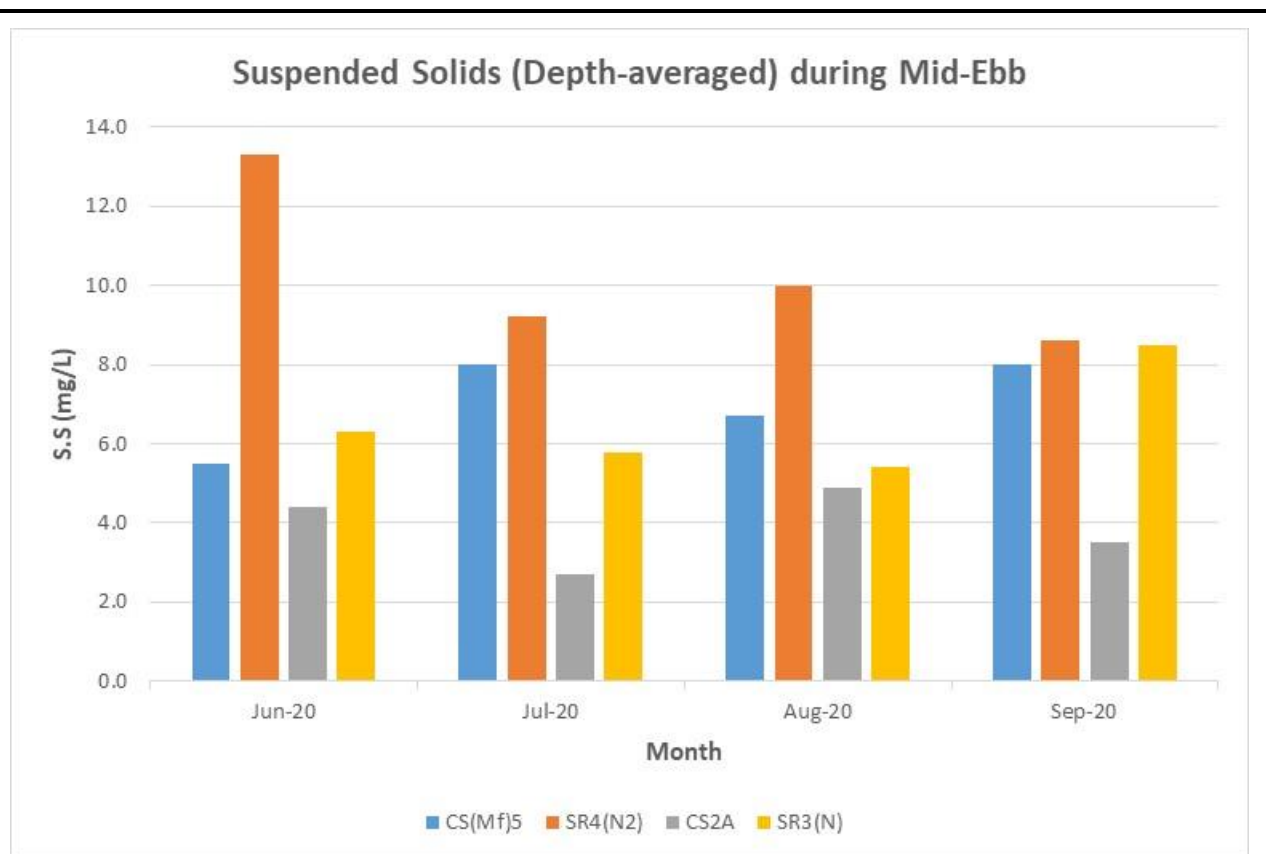


Figure J4 Operational Phase Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 June 2020 and 30 September 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_September2020_graphs_Rev a.xls





V

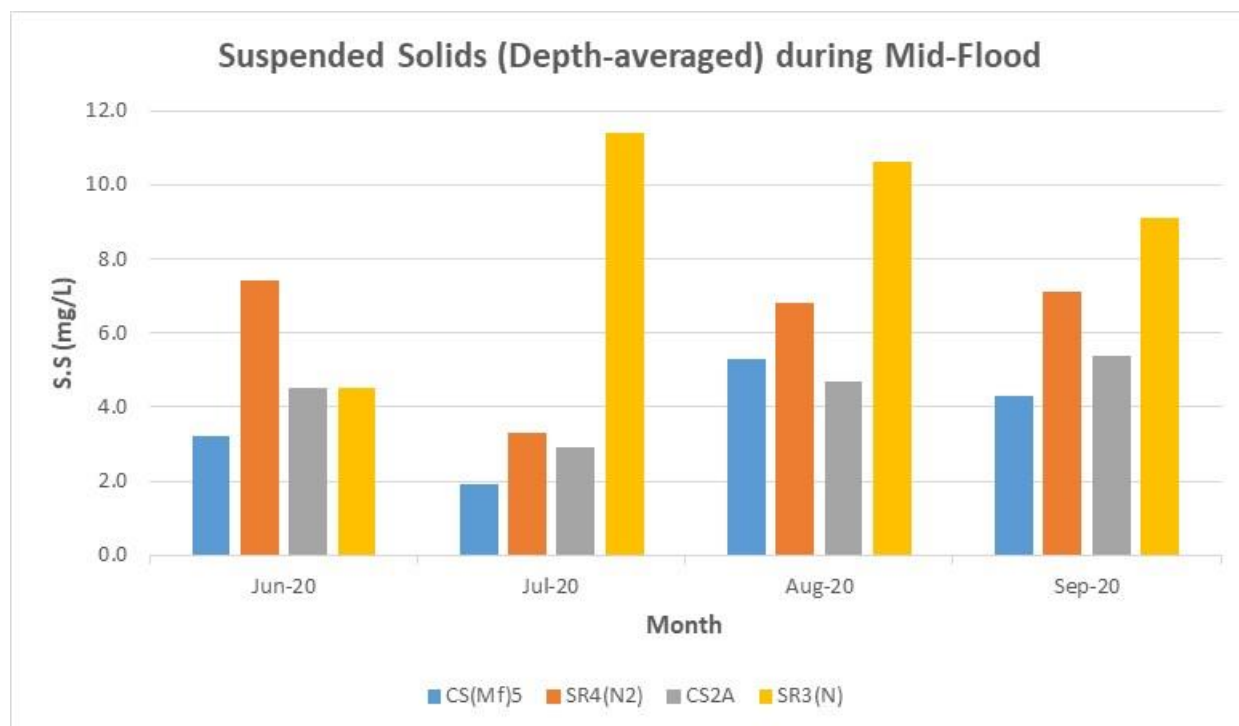


Figure J5 Operational Phase Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 June 2020 and 30 September 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_September2020_graphs_Rev a.xls



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
21-09-20	Mid-Ebb	CS(M)5	Cloudy	Moderate	9:10	12.8	Surface	1.0	1	29.0	8.0	25.0	5.0	74.8	4.3	7.1	4.9	10.6	8.0					
									2	29.0	8.0	25.1	5.0	74.4	4.5	7.2								
							Middle	6.4	1	28.8	8.0	26.7	4.8	71.7	12.7	8.1				4.8				
									2	28.8	8.0	26.7	4.7	70.8	12.6	8.1								
							Bottom	11.8	1	28.8	8.0	26.5	4.8	72.3	15.0	8.6								
									2	28.8	8.0	26.5	4.8	72.2	14.3	9.0								
		SR4(N2)	Cloudy	Calm	9:53	4.2	Surface	1.0	1	29.3	8.0	24.5	5.2	77.2	5.1	8.6	5.2	5.0	8.6					
									2	29.3	8.0	24.4	5.2	77.7	4.7	8.4								
							Bottom	3.2	1	29.2	8.0	24.7	5.1	75.5	5.5	8.8				5.2				
									2	29.2	8.0	24.6	5.2	77.0	4.8	8.7								
							Surface	1.0	1	29.2	8.1	24.0	5.3	78.5	5.6	4.6					5.2	10.4	3.5	
									2	29.1	8.1	23.7	5.2	77.4	5.7	4.2								
		Middle	3.5	1	29.1	8.1	25.4	5.2	77.6	11.6	3.4	5.3												
				2	29.1	8.1	25.4	5.1	76.9	11.7	3.3													
		Bottom	6.0	1	29.1	8.1	25.4	5.3	78.8	13.8	2.8		5.2	9.1	8.5									
				2	29.1	8.1	25.5	5.2	77.3	14.0	2.7													
		21-09-20	Mid-Flood	CS(M)5	Rainy	Moderate	16:10	12.8	Surface	1.0	1	29.2				8.0	25.0	5.2	77.1	8.7	9.4	4.9	9.2	4.3
											2	29.2				8.0	25.0	5.1	76.3	8.4	9.0			
									Bottom	2.5	1	29.1	8.0	25.0	5.2	77.9	9.9	8.0	5.2					
											2	29.1	8.0	25.1	5.1	76.2	9.5	7.7						
Surface	1.0								1	29.1	8.0	25.4	5.0	75.5	6.6	5.2	4.8	8.5		7.1				
									2	29.1	8.0	25.4	5.0	75.0	6.7	4.7								
Middle	6.4			1	28.9	8.0	25.8	4.8	71.7	7.7	4.1	5.5												
				2	28.9	8.0	25.8	4.8	71.2	7.3	4.3													
Bottom	11.8			1	28.8	8.0	26.8	4.8	71.5	13.2	3.6		5.2	6.0	5.4									
				2	28.9	8.0	26.2	4.7	70.3	13.4	3.9													
Surface	1.0			1	29.6	8.0	23.9	5.5	82.5	6.6	6.2	5.4				8.0	9.1							
				2	29.6	8.0	24.1	5.4	80.7	6.5	6.4													
Bottom	3.4			1	29.4	8.0	24.4	5.2	77.8	10.1	8.1		5.4											
				2	29.5	8.0	24.2	5.2	77.9	10.9	7.8													
Surface	1.0			1	29.5	8.1	23.7	5.4	80.7	3.9	3.8	5.3		6.0	5.4									
				2	29.5	8.1	23.6	5.4	80.9	3.9	3.7													
Middle	3.6			1	29.1	8.1	25.3	5.2	77.5	6.5	5.0		5.2											
				2	29.1	8.1	25.2	5.2	77.2	6.2	5.5													
Bottom	6.2			1	29.0	8.1	26.0	5.2	77.9	7.5	6.9	5.4		8.0	9.1									
				2	29.1	8.1	26.0	5.2	77.8	7.9	7.2													
Surface	1.0	1	29.5	8.0	24.4	5.4	81.3	7.0	7.8	5.5														
		2	29.5	8.0	24.4	5.4	80.5	7.2	8.1															
Bottom	2.9	1	29.5	8.0	24.4	5.6	83.2	8.7	10.4		5.5													
		2	29.5	8.0	24.4	5.4	80.3	8.9	10.0															