

Air Quality Monitoring Results

1-hour TSP Monitoring Result for

Contract No. SPW 02/2023

Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

AM1 - Topfine Machinery (China) Co. Ltd.

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2/11/2023	sunny	8:36	65	66	59	291	500
8/11/2023	sunny	8:10	67	70	68		
14/11/2023	sunny	8:23	70	73	71		
20/11/2023	sunny	9:22	54	58	59		
25/11/2023	sunny	8:21	34	40	41		
		Min	34				
		Max	73				
		Average	60				

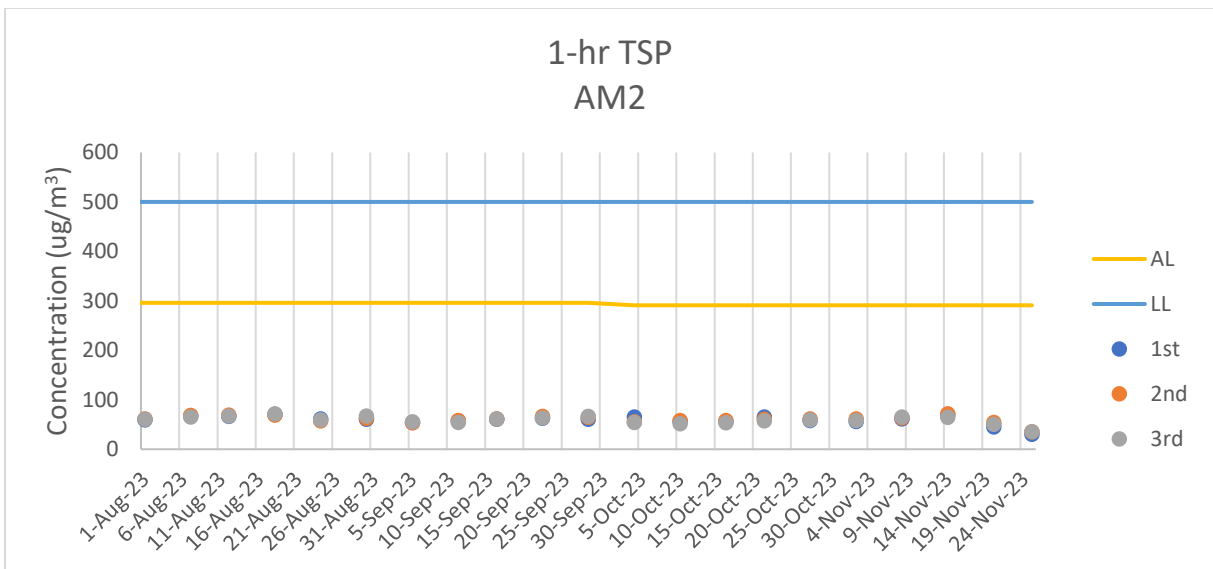
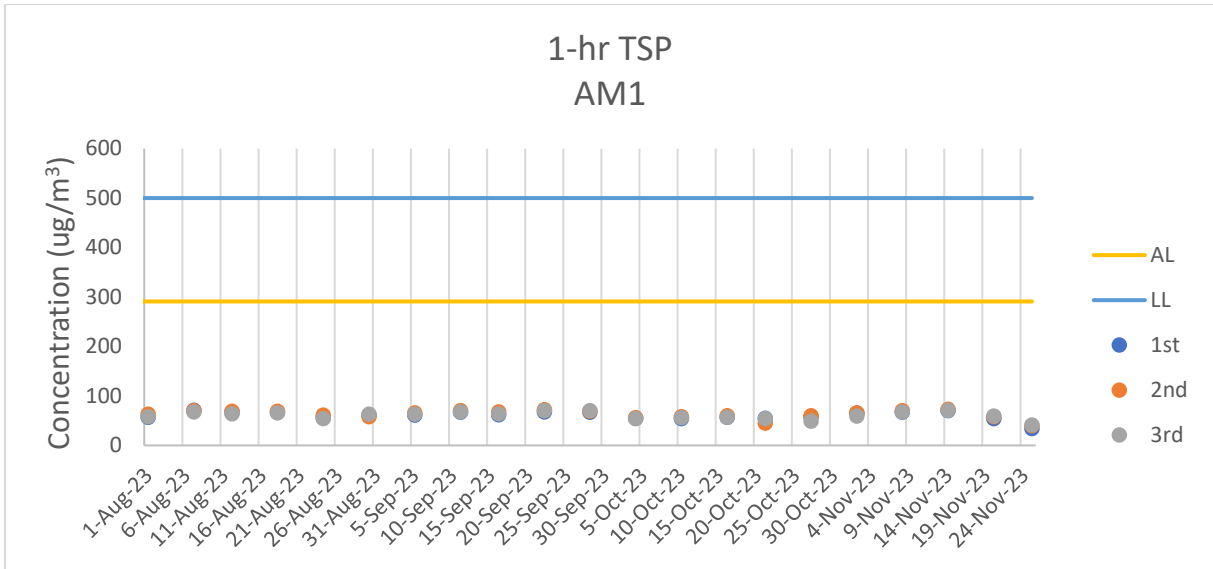
AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2/11/2023	sunny	13:02	56	61	58	296	500
8/11/2023	sunny	13:11	61	63	65		
14/11/2023	sunny	14:23	69	71	64		
20/11/2023	sunny	13:23	45	54	50		
25/11/2023	sunny	14:00	30	35	35		
		Min	30				
		Max	71				
		Average	54				

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level



Air Quality Monitoring Results

Noise Monitoring Results

**Noise Impact Monitoring Result for
Contract No. SPW 02/2023
Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1**

CM1 - Squatter house to the north of YLSTW

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
2/11/2023	09:39	54.5	56.3	52.2	0.5	sunny	75
8/11/2023	10:21	56.6	58.5	53.5	0.2	sunny	75
14/11/2023	09:17	57.8	60.4	54.8	0.4	sunny	75
20/11/2023	09:20	60.7	63.3	59.5	0.6	sunny	75
	Max	60.7					
	Min	54.5					

CM2 - Squatter house to the west of YLSTW

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
2/11/2023	08:34	61.6	63.2	59.5	0.6	sunny	75
8/11/2023	09:12	59.6	61.4	54.3	0.7	sunny	75
14/11/2023	08:20	62.1	64.4	60.5	0.4	sunny	75
20/11/2023	08:26	64.3	65.6	62.3	0.6	sunny	75
	Max	64.3					
	Min	59.6					

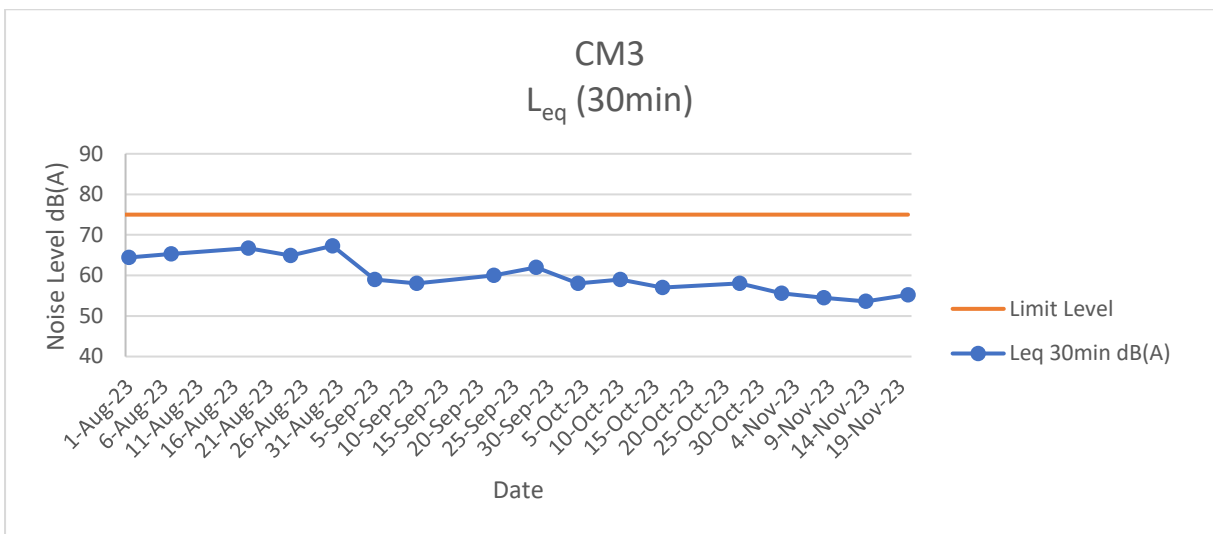
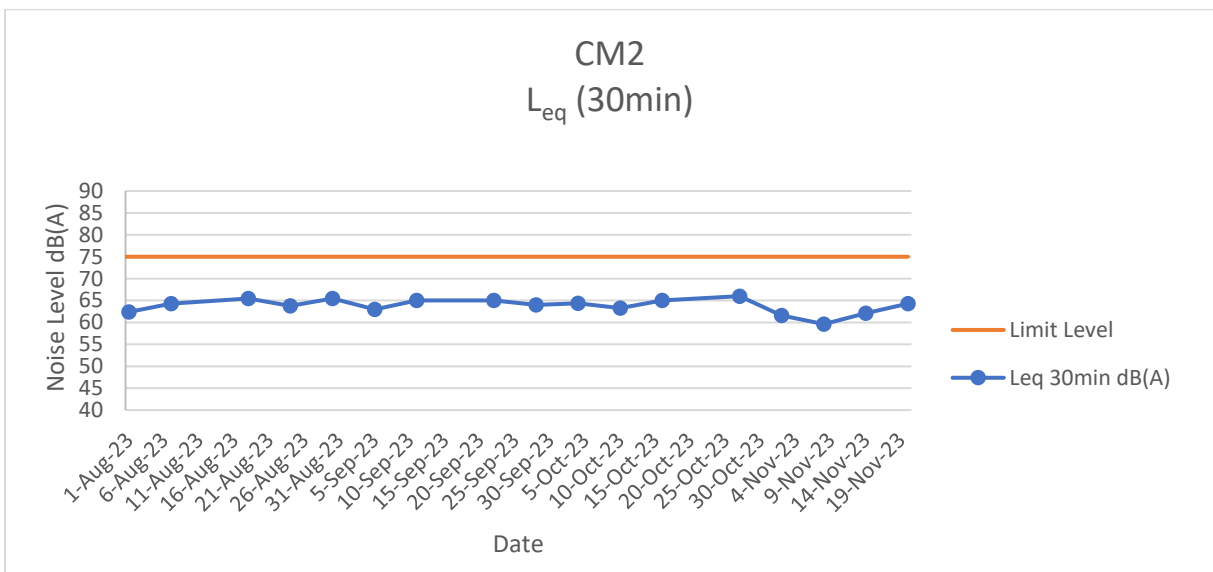
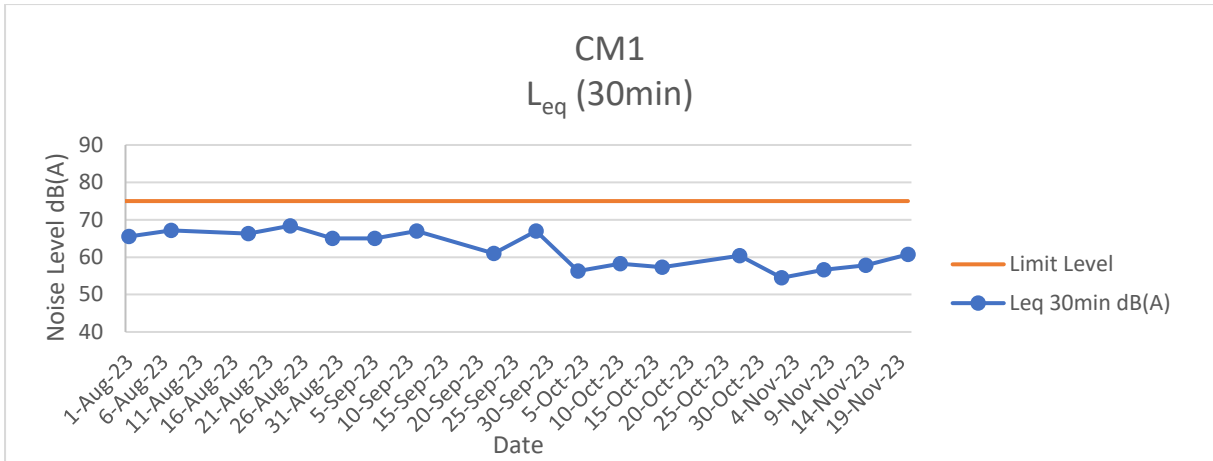
CM3 - Squatter house to the east of YLSTW

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
2/11/2023	11:08	55.6	57.5	51.3	0.5	sunny	75
8/11/2023	12:24	54.5	56.7	52.3	0.4	sunny	75
14/11/2023	11:11	53.6	55.6	50.4	0.4	sunny	75
20/11/2023	11:27	55.2	58.9	53.2	0.3	sunny	75
	Max	55.6					
	Min	53.6					

Note:

CM1, CM2 and CM3: Free-field measurement (+3dB(A) correction has been applied).

No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.



Noise Monitoring Results

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	1/11/2023	Mid-Flood	Cloudy	Low	15:05	2.8	M	1.40	1	0.086	175.819	7.35	7.35	2.55	2.54	24.7	24.75	31.9	32.65	2.4	2.46	36.49	36.35	37	39
M1	1/11/2023	Mid-Flood	Cloudy	Low	15:05	2.8	M	1.40	2			7.35	7.35	2.53	2.54	24.8	24.75	33.4	32.65	2.51	2.46	36.21	36.35	40	39
M2	1/11/2023	Mid-Flood	Cloudy	Low	15:41	2.6	M	1.30	1	0.087	166.739	7.36	7.36	2.61	2.65	24.7	24.70	33.4	26.73	2.51	2.01	40.83	40.89	37	37
M2	1/11/2023	Mid-Flood	Cloudy	Low	15:41	2.6	M	1.30	2			7.35	7.36	2.69	2.65	24.7	24.70	33.6	26.73	2.52	2.01	40.95	40.89	37	37
M3	1/11/2023	Mid-Flood	Cloudy	Low	15:00	2	M	0.00	1	0.091	245.982	7.56	7.58	2.23	2.22	24.4	24.40	39.9	40.15	4.78	4.80	32.2	32.25	45	46
M3	1/11/2023	Mid-Flood	Cloudy	Low	15:02	2	M	0.00	2			7.6	7.58	2.21	2.22	24.4	24.40	40.4	40.15	4.82	4.80	32.3	32.25	46	46
M1	1/11/2023	Mid-Ebb	Cloudy	Low	10:35	2.5	M	1.25	1	0.077	308.001	7.3	7.29	2.58	2.60	24.6	24.65	39.8	39.70	2.99	2.99	42.70	42.85	48	42
M1	1/11/2023	Mid-Ebb	Cloudy	Low	10:35	2.5	M	1.25	2			7.28	7.29	2.62	2.60	24.7	24.65	39.6	39.70	2.98	2.99	43	42.85	36	42
M2	1/11/2023	Mid-Ebb	Cloudy	Low	10:07	2.4	M	1.20	1	0.062	324.952	7.29	7.28	2.59	2.57	24.6	24.60	32.0	26.73	2.4	2.01	35.42	35.52	98	91
M2	1/11/2023	Mid-Ebb	Cloudy	Low	10:07	2.4	M	1.20	2			7.27	7.28	2.54	2.57	24.6	24.60	32.2	26.73	2.42	2.01	35.62	35.52	83	91
M3	1/11/2023	Mid-Ebb	Cloudy	Low	10:00	1.3	M	0.00	1	0.058	74.598	7.34	7.37	2.1	2.10	24.2	24.25	40.23	40.28	3.45	3.50	50.44	50.45	88	87
M3	1/11/2023	Mid-Ebb	Cloudy	Low	10:00	1.3	M	0.00	2			7.4	7.37	2.1	2.10	24.3	24.25	40.32	40.28	3.55	3.50	50.46	50.45	85	87

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.6	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	51.6	55.9	106.2	115.05

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	3/11/2023	Mid-Flood	Cloudy	Low	16:22	2.4	M	1.20	1	0.088	180.25	7.42	7.43	2.56	2.56	24.6	24.60	45.1	44.82	3.39	3.37	33.44	33.24	36	35
M1	3/11/2023	Mid-Flood	Cloudy	Low	16:22	2.4	M	1.20	2			7.43	7.44	2.56	2.56	24.6	24.7	44.6	44.82	3.35	3.37	33.04	33.24	34	34
M2	3/11/2023	Mid-Flood	Cloudy	Low	16:51	2.3	M	1.15	1	0.08	173.526	7.44	7.44	2.56	2.52	24.7	24.8	31.4	31.52	2.36	2.37	35.46	35.35	33	34
M2	3/11/2023	Mid-Flood	Cloudy	Low	16:51	2.3	M	1.15	2			7.44	7.44	2.52	2.52	24.8	24.75	31.7	31.52	2.38	2.37	35.23	35.35	35	34
M3	3/11/2023	Mid-Flood	Cloudy	Low	16:11	2	M	0.00	1	0.078	257.223	7.56	7.61	2	2.00	24.5	24.40	45.6	45.75	4.34	4.40	23.65	23.61	48	46
M3	3/11/2023	Mid-Flood	Cloudy	Low	16:12	2	M	0.00	2			7.65	7.61	2	2.00	24.3	24.40	45.9	45.75	4.46	4.40	23.56	23.61	44	46
M1	3/11/2023	Mid-Ebb	Cloudy	Low	12:24	2.5	M	1.25	1	0.065	312.045	7.29	9.44	2.51	2.56	24.7	24.75	37.6	37.31	2.83	2.81	32.59	32.55	48	44
M1	3/11/2023	Mid-Ebb	Cloudy	Low	12:25	2.5	M	1.25	2			7.3	9.44	2.6	2.56	24.8	24.75	37.0	37.31	2.78	2.81	32.51	32.55	39	44
M2	3/11/2023	Mid-Ebb	Cloudy	Low	11:58	2.4	M	1.20	1	0.077	312.982	7.24	10.44	2.51	2.55	24.7	24.70	36.7	36.04	2.76	2.71	41.09	41.27	91	90
M2	3/11/2023	Mid-Ebb	Cloudy	Low	11:59	2.4	M	1.20	2			7.23	10.44	2.59	2.55	24.7	24.70	35.4	36.04	2.66	2.71	41.44	41.27	88	90
M3	3/11/2023	Mid-Ebb	Cloudy	Low	11:45	1.3	M	0.00	1	0.079	84.547	7.09	7.10	2.1	2.10	24.4	24.40	38.7	38.95	3.34	3.40	53.33	53.39	5	6
M3	3/11/2023	Mid-Ebb	Cloudy	Low	11:45	1.3	M	0.00	2			7.1	7.10	2.1	2.10	24.4	24.40	39.2	38.95	3.45	3.40	53.44	53.39	7	6

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 99%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	56.8	61.5	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	6/11/2023	Mid-Flood	Cloudy	Low	10:41	2.5	M	1.25	1	0.089	168.163	7.39	7.71	3.34	3.38	26.2	26.25	35.0	34.78	2.63	2.62	36.85	36.63	16	17
M1	6/11/2023	Mid-Flood	Cloudy	Low	10:42	2.5	M	1.25	2			7.71		3.42		26.3		34.6		2.6		36.41		17	
M2	6/11/2023	Mid-Flood	Cloudy	Low	11:08	2.2	M	1.10	1	0.095	186.271	7.61	7.60	3.34	3.33	26.2	26.25	33.8	33.32	2.54	2.51	36.71	36.87	20	20
M2	6/11/2023	Mid-Flood	Cloudy	Low	11:09	2.2	M	1.10	2			7.59		3.32		26.3		32.9		2.47		37.02		19	
M3	6/11/2023	Mid-Flood	Cloudy	Low	10:34	2	M	0.00	1	0.098	259.348	7.22	7.23	3.1	3.10	27.3	27.35	32.9	32.90	4.88	4.87	23.34	23.40	16	16
M3	6/11/2023	Mid-Flood	Cloudy	Low	10:35	2	M	0.00	2			7.23		3.1		27.4		32.9		4.86		23.45		16	
M1	6/11/2023	Mid-Ebb	Cloudy	Low	17:36	2.4	M	1.20	1	0.079	317.589	7.68	7.68	3.35	3.31	26.2	26.25	36.4	35.91	2.74	2.70	36.73	36.73	19	18
M1	6/11/2023	Mid-Ebb	Cloudy	Low	17:36	2.4	M	1.20	2			7.67		3.26		26.3		35.4		2.66		36.72		17	
M2	6/11/2023	Mid-Ebb	Cloudy	Low	18:02	2.1	M	1.05	1	0.063	344.851	7.55	7.54	3.35	3.34	26.2	26.20	35.6	34.78	2.68	2.62	36.53	36.32	8	7
M2	6/11/2023	Mid-Ebb	Cloudy	Low	18:02	2.1	M	1.05	2			7.53		3.33		26.2		33.9		2.55		36.11		6	
M3	6/11/2023	Mid-Ebb	Cloudy	Low	17:22	1.1	M	0.00	1	0.058	81.235	7.65	7.66	3.22	3.22	26.5	26.45	32.5	32.40	2.45	2.45	44.56	44.61	8	8
M3	6/11/2023	Mid-Ebb	Cloudy	Low	17:22	1.1	M	0.00	2			7.66		3.22		26.4		32.3		2.44		44.65		7	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	44.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.6	52.6	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	8/11/2023	Mid-Flood	Cloudy	Low	9:39	2.4	M	1.20	1	0.091	161.313	7.39	7.40	6.26	6.29	25.9	25.90	32.1	31.79	2.41	2.39	11.77	11.88	14	15
M1	8/11/2023	Mid-Flood	Cloudy	Low	9:39	2.4	M	1.20	2			7.41		6.32		25.9		31.5		2.37		11.98			
M2	8/11/2023	Mid-Flood	Cloudy	Low	10:01	2	M	1.00	1	0.089	163.489	7.53	7.52	3.34	3.37	26.2	26.20	33.4	34.05	2.51	2.56	10.29	10.31	15	16
M2	8/11/2023	Mid-Flood	Cloudy	Low	10:02	2	M	1.00	2			7.51		3.39		26.2		34.7		2.61		10.33			
M3	8/11/2023	Mid-Flood	Cloudy	Low	9:22	2	M	0.00	1	0.085	253.891	7.44	7.45	3.1	3.10	26	26.00	35.8	36.15	4.15	4.21	13.44	13.45	15	15
M3	8/11/2023	Mid-Flood	Cloudy	Low	9:25	2	M	0.00	2			7.46		3.1		26		36.5		4.26		13.45			
M1	8/11/2023	Mid-Ebb	Cloudy	Low	17:05	2.1	M	1.05	1	0.077	310.053	7.44	7.45	3.33	3.37	26.2	26.20	33.9	32.98	2.55	2.48	9.78	9.92	17	16
M1	8/11/2023	Mid-Ebb	Cloudy	Low	17:06	2.1	M	1.05	2			7.46		3.4		26.2		32.1		2.41		10.05			
M2	8/11/2023	Mid-Ebb	Cloudy	Low	16:39	1.8	M	0.90	1	0.081	305.142	7.55	7.56	3.33	3.32	26.2	26.25	34.4	35.05	2.59	2.64	9.79	9.59	15	16
M2	8/11/2023	Mid-Ebb	Cloudy	Low	16:39	1.8	M	0.90	2			7.57		3.3		26.3		35.6		2.68		9.38			
M3	8/11/2023	Mid-Ebb	Cloudy	Low	16:23	1.6	M	0.00	1	0.083	85.665	7.54	7.54	3.24	3.29	26	26.00	50.4	50.90	3.34	3.37	15.45	14.50	13	14
M3	8/11/2023	Mid-Ebb	Cloudy	Low	16:24	1.7	M	0.00	2			7.54		3.34		26		51.4		3.4		13.55			

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	10/11/2023	Mid-Flood	Cloudy	Low	11:10	2.5	M	1.25	1	0.085	166.467	7.61	7.61	2.63	2.67	25.6	25.65	37.4	37.04	2.81	2.79	12.67	12.84	5	6
M1	10/11/2023	Mid-Flood	Cloudy	Low	11:10	2.5	M	1.25	2			7.61	7.61	2.71	2.67	25.7	25.65	36.7	37.04	2.76	2.79	13.01	12.84	6	6
M2	10/11/2023	Mid-Flood	Cloudy	Low	11:38	2.3	M	1.15	1	0.086	182.744	7.58	7.59	2.30	2.27	25.5	25.50	37.5	37.31	2.82	2.81	16.66	16.51	4	6
M2	10/11/2023	Mid-Flood	Cloudy	Low	11:39	2.3	M	1.15	2			7.59	7.59	2.24	2.27	25.5	25.50	37.1	37.31	2.79	2.81	16.36	16.51	7	6
M3	10/11/2023	Mid-Flood	Cloudy	Low	11:09	2	M	0.00	1	0.088	239.258	7.58	7.59	2.11	2.12	25.4	25.45	51.9	52.00	4.93	4.96	15.45	15.48	9	8
M3	10/11/2023	Mid-Flood	Cloudy	Low	11:08	2	M	0.00	2			7.59	7.59	2.12	2.12	25.5	25.45	52.1	52.00	4.99	4.96	15.5	15.48	7	8
M1	10/11/2023	Mid-Ebb	Cloudy	Low	17:51	2.4	M	1.20	1	0.069	305.543	7.47	7.47	2.34	2.32	25.5	25.55	34.0	33.05	2.56	2.49	15.81	15.93	7	9
M1	10/11/2023	Mid-Ebb	Cloudy	Low	17:52	2.4	M	1.20	2			7.46	7.47	2.3	2.32	25.6	25.55	32.1	33.05	2.41	2.49	16.05	15.93	10	9
M2	10/11/2023	Mid-Ebb	Cloudy	Low	17:23	2.2	M	1.10	1	0.065	337.635	7.49	7.49	2.36	2.40	25.6	25.60	36.2	35.64	2.72	2.68	14.83	14.64	2.5	3
M2	10/11/2023	Mid-Ebb	Cloudy	Low	17:24	2.2	M	1.10	2			7.48	7.49	2.44	2.40	25.6	25.60	35.1	35.64	2.64	2.68	14.45	14.64	2.5	3
M3	10/11/2023	Mid-Ebb	Cloudy	Low	17:40	1.2	M	0.00	1	0.061	84.335	7.44	7.43	1.2	1.15	25.3	25.35	39.9	40.40	3.87	3.92	20.44	20.445	2.5	3
M3	10/11/2023	Mid-Ebb	Cloudy	Low	17:45	1.2	M	0.00	2			7.41	7.43	1.1	1.15	25.4	25.35	40.9	40.40	3.97	3.92	20.45	20.445	2.5	3

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	14/11/2023	Mid-Flood	Sunny	Low	13:55	2.5	M	1.25	1	0.087	189.093	7.19	7.19	5.05	5.07	21.6	21.60	41.6	41.43	3.13	3.12	23.95	24.1	41	41
M1	14/11/2023	Mid-Flood	Sunny	Low	13:56	2.5	M	1.25	2			7.19		5.08		21.6		41.2		3.1		24.25		40	
M2	14/11/2023	Mid-Flood	Sunny	Low	14:21	2.2	M	1.10	1	0.083	169.748	7.41	7.42	5.03	5.00	21.3	21.35	52.9	53.60	3.98	4.03	23.87	23.85	33	38
M2	14/11/2023	Mid-Flood	Sunny	Low	14:21	2.2	M	1.10	2			7.43		4.96		21.4		54.3		4.08		23.83		43	
M3	14/11/2023	Mid-Flood	Sunny	Low	13:44	2	M	0.00	1	0.073	243.842	7.44	7.46	3.43	3.43	20.3	20.35	52.9	53.05	3.98	4.01	21.23	21.24	46	42
M3	14/11/2023	Mid-Flood	Sunny	Low	13:45	2	M	0.00	2			7.47		3.43		20.4		53.2		4.04		21.24		37	
M1	14/11/2023	Mid-Ebb	Sunny	Low	8:50	2.4	M	1.20	1	0.069	342.261	7.22	7.22	4.96	4.94	21.7	21.70	53.7	52.73	4.04	3.97	23.40	23.245	37	35
M1	14/11/2023	Mid-Ebb	Sunny	Low	8:51	2.4	M	1.20	2			7.22		4.91		21.7		51.7		3.89		23.09		32	
M2	14/11/2023	Mid-Ebb	Sunny	Low	8:27	2.1	M	1.05	1	0.074	310.504	7.22	7.22	4.98	5.02	21.7	21.70	53.2	53.20	4	4.00	23.52	23.7	15	12
M2	14/11/2023	Mid-Ebb	Sunny	Low	8:27	2.1	M	1.05	2			7.22		5.06		21.7		53.2		4		23.88		9	
M3	14/11/2023	Mid-Ebb	Sunny	Low	8:15	1.1	M	0.00	1	0.078	71.589	7.34	7.39	4.11	4.12	21.3	21.30	54.3	54.40	4.11	4.12	30.33	30.28	6	10
M3	14/11/2023	Mid-Ebb	Sunny	Low	8:15	1.1	M	0.00	2			7.44		4.12		21.3		54.5		4.12		30.23		13	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	16/11/2023	Mid-Flood	Cloudy	Low	15:10	2.6	M	1.30	1	0.077	178.99	7.24	7.24	4.91	4.93	21.7	21.70	39.6	39.63	2.98	2.98	23.58	23.74	38	38
M1	16/11/2023	Mid-Flood	Cloudy	Low	15:11	2.6	M	1.30	2			7.24	7.24	4.94	4.93	21.7	21.70	39.6	39.63	2.98	2.98	23.58	23.74	37	38
M2	16/11/2023	Mid-Flood	Cloudy	Low	15:40	2.6	M	1.30	1	0.083	166.345	7.24	7.24	4.90	4.93	21.7	21.70	39.4	39.04	2.96	2.94	24.21	24.37	37	39
M2	16/11/2023	Mid-Flood	Cloudy	Low	15:41	2.6	M	1.30	2			7.23	7.23	4.95	4.93	21.7	21.70	38.7	38.7	2.91	2.94	24.53	24.37	40	39
M3	16/11/2023	Mid-Flood	Cloudy	Low	15:03	2.1	M	0.00	1	0.087	255.229	7.33	7.38	2.33	2.39	20.3	20.45	38.3	38.90	3.78	3.79	19.23	19.29	37	44
M3	16/11/2023	Mid-Flood	Cloudy	Low	15:04	2.2	M	0.00	2			7.43	7.43	2.44	2.39	20.6	20.45	39.5	38.90	3.8	3.79	19.34	19.29	50	44
M1	16/11/2023	Mid-Ebb	Cloudy	Low	10:33	2.5	M	1.25	1	0.079	343.715	7.25	7.25	4.90	4.90	21.7	21.70	39.4	38.37	2.96	2.89	24.09	24.03	32	32
M1	16/11/2023	Mid-Ebb	Cloudy	Low	10:34	2.5	M	1.25	2			7.25	7.25	4.9	4.90	21.7	21.70	37.4	38.37	2.81	2.89	23.97	24.03	31	32
M2	16/11/2023	Mid-Ebb	Cloudy	Low	10:07	2.2	M	1.10	1	0.079	345.185	7.25	7.26	4.82	4.86	21.7	21.75	40.2	40.50	3.02	3.05	23.85	23.92	18	19
M2	16/11/2023	Mid-Ebb	Cloudy	Low	10:08	2.2	M	1.10	2			7.26	7.26	4.9	4.86	21.8	21.75	40.8	40.50	3.07	3.05	23.99	23.92	19	19
M3	16/11/2023	Mid-Ebb	Cloudy	Low	10:23	1.1	M	0.00	1	0.074	81.669	7.12	7.16	2.45	2.45	21.1	21.05	35.5	35.95	3.32	3.34	35.34	35.37	10	11
M3	16/11/2023	Mid-Ebb	Cloudy	Low	10:23	1	M	0.00	2			7.19	7.19	2.44	2.45	21	21.05	36.4	35.95	3.35	3.34	35.4	35.37	12	11

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	18/11/2023	Mid-Flood	Cloudy	Low	16:42	2.7	M	1.35	1	0.095	174.275	7.26	7.27	4.82	4.81	21.7	21.75	35.1	34.85	2.64	2.62	23.09	22.88	2.5	3
M1	18/11/2023	Mid-Flood	Cloudy	Low	16:43	2.7	M	1.35	2			7.27		4.8		21.8		34.6		2.6		22.67		2.5	
M2	18/11/2023	Mid-Flood	Cloudy	Low	17:05	2.4	M	1.20	1	0.082	163.81	7.26	7.26	4.83	4.83	21.7	21.70	36.2	36.71	2.72	2.76	23.28	23.24	3	3
M2	18/11/2023	Mid-Flood	Cloudy	Low	17:06	2.4	M	1.20	2			7.25		4.83		21.7		37.2		2.8		23.2		3	
M3	18/11/2023	Mid-Flood	Cloudy	Low	16:33	2.1	M	1.05	1	0.078	263.274	7.21	7.22	3.2	3.25	20.1	20.20	37.2	37.70	3.46	3.48	22.32	22.37	4	3
M3	18/11/2023	Mid-Flood	Cloudy	Low	16:34	2.2	M	1.10	2			7.23		3.3		20.3		38.2		3.5		22.42		2.5	
M1	18/11/2023	Mid-Ebb	Cloudy	Low	12:33	2.5	M	1.25	1	0.074	312.105	7.26	7.26	4.79	4.79	21.8	21.85	34.2	35.44	2.57	2.67	22.51	22.8	3	4
M1	18/11/2023	Mid-Ebb	Cloudy	Low	12:34	2.5	M	1.25	2			7.26		4.78		21.9		36.7		2.76		22.98		4	
M2	18/11/2023	Mid-Ebb	Cloudy	Low	12:01	2.3	M	1.15	1	0.073	319.934	7.26	7.26	4.78	4.82	21.8	21.85	37.6	37.77	2.83	2.84	23.22	23.26	60	61
M2	18/11/2023	Mid-Ebb	Cloudy	Low	12:01	2.3	M	1.15	2			7.26		4.85		21.9		37.9		2.85		23.3		62	
M3	18/11/2023	Mid-Ebb	Cloudy	Low	11:56	2	M	1.00	1	0.071	82.984	7.33	7.34	4.2	4.15	19.3	19.45	37.7	37.05	3.47	3.46	43.3	42.8	71	64
M3	18/11/2023	Mid-Ebb	Cloudy	Low	11:55	2	M	1.00	2			7.34		4.1		19.6		36.4		3.44		42.3		57	

Remark

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4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

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6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	75	81.25

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	20/11/2023	Mid-Flood	Sunny	Low	9:31	2.8	M	1.40	1	0.078	161.716	8.04	8.05	5.04	5.08	28.5	28.50	37.5	37.57	2.82	2.83	36.80	36.605	31	37
M1	20/11/2023	Mid-Flood	Sunny	Low	9:32	2.8	M	1.40	2			8.06		5.12		28.5		37.6		2.83		36.41		42	
M2	20/11/2023	Mid-Flood	Sunny	Low	9:57	2.6	M	1.30	1	0.092	163.671	7.94	7.93	2.36	2.36	28.5	28.55	34.0	34.45	2.56	2.59	36.94	37.015	30	28
M2	20/11/2023	Mid-Flood	Sunny	Low	9:58	2.6	M	1.30	2			7.92		2.35		28.6		34.8		2.62		37.09		26	
M3	20/11/2023	Mid-Flood	Sunny	Low	9:21	2.1	M	1.05	1	0.095	841.332	7.75	7.76	1.5	1.50	28.2	28.20	44.9	44.10	4.23	4.18	23.43	23.44	50	55
M3	20/11/2023	Mid-Flood	Sunny	Low	9:21	2.1	M	1.05	2			7.76		1.5		28.2		43.3		4.13		23.44		60	
M1	20/11/2023	Mid-Ebb	Sunny	Low	14:57	2.5	M	1.25	1	0.073	341.88	7.86	7.86	2.32	2.37	28.7	28.75	33.5	34.11	2.52	2.57	36.58	36.62	49	46
M1	20/11/2023	Mid-Ebb	Sunny	Low	14:57	2.5	M	1.25	2			7.85		2.41		28.8		34.7		2.61		36.66		42	
M2	20/11/2023	Mid-Ebb	Sunny	Low	14:24	2.4	M	1.20	1	0.076	344.057	7.88	7.88	2.30	2.29	28.7	28.75	34.7	34.85	2.61	2.62	36.62	36.64	6	6
M2	20/11/2023	Mid-Ebb	Sunny	Low	14:25	2.4	M	1.20	2			7.88		2.27		28.8		35.0		2.63		36.66		5	
M3	20/11/2023	Mid-Ebb	Sunny	Low	14:21	1.2	M	0.60	1	0.082	77.338	7.76	7.76	2.2	2.20	28.1	28.10	40.23	40.29	3.33	3.34	41.23	41.275	2.5	3
M3	20/11/2023	Mid-Ebb	Sunny	Low	14:23	1.2	M	0.60	2			7.75		2.2		28.1		40.34		3.34		41.32		2.5	

Remark

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6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.9	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.6	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	22/11/2023	Mid-Flood	Cloudy	Low	8:21	2.4	M	1.20	1	0.09	174.209	7.56	7.56	5.05	5.04	19.3	19.30	33.1	33.12	2.49	2.49	20.03	20.025	16	16
M1	22/11/2023	Mid-Flood	Cloudy	Low	8:22	2.4	M	1.20	2			7.56		5.02		19.3		33.1		2.49		20.02		15	
M2	22/11/2023	Mid-Flood	Cloudy	Low	8:49	2.1	M	1.05	1	0.073	180.928	7.57	7.58	5.06	5.02	19.3	19.35	33.5	33.05	2.52	2.49	19.05	19.105	20	19
M2	22/11/2023	Mid-Flood	Cloudy	Low	8:50	2.1	M	1.05	2			7.58		4.97		19.4		32.6		2.45		19.16		18	
M3	22/11/2023	Mid-Flood	Cloudy	Low	8:18	1.9	M	0.00	1	0.064	245.337	7.66	7.61	2.34	2.39	19	19.00	41.2	41.00	3.99	3.98	16.23	16.28	20	19
M3	22/11/2023	Mid-Flood	Cloudy	Low	8:20	1.9	M	0.00	2			7.56		2.43		19		40.8		3.96		16.33		18	
M1	22/11/2023	Mid-Ebb	Cloudy	Low	16:28	2.4	M	1.20	1	0.062	341.421	7.53	7.54	5.06	5.09	19.3	19.30	35.5	35.18	2.67	2.65	19.76	19.56	16	18
M1	22/11/2023	Mid-Ebb	Cloudy	Low	16:29	2.4	M	1.20	2			7.55		5.12		19.3		34.8		2.62		19.36		20	
M2	22/11/2023	Mid-Ebb	Cloudy	Low	15:57	2.2	M	1.10	1	0.061	307.417	7.52	7.52	5.06	5.02	19.3	19.35	33.9	33.45	2.55	2.52	18.99	19.17	6	6
M2	22/11/2023	Mid-Ebb	Cloudy	Low	15:57	2.2	M	1.10	2			7.51		4.98		19.4		33.0		2.48		19.35		6	
M3	22/11/2023	Mid-Ebb	Cloudy	Low	15:20	1.1	M	0.00	1	0.057	78.224	7.43	7.39	3.34	3.40	18.34	18.39	34.3	34.25	2.45	2.51	23.32	12.154	3	4
M3	22/11/2023	Mid-Ebb	Cloudy	Low	15:21	1.1	M	0.00	2			7.34		3.45		18.43		34.2		2.56		23.44		4	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	24/11/2023	Mid-Flood	Sunny	Low	10:37	2.8	M	1.40	1	0.079	169.485	7.54	7.53	5.04	5.05	19.2	19.25	33.0	33.12	2.48	2.49	20.94	21.06	9	10
M1	24/11/2023	Mid-Flood	Sunny	Low	10:38	2.8	M	1.40	2			7.52		5.05		19.3		33.3		2.5		21.18		10	
M2	24/11/2023	Mid-Flood	Sunny	Low	11:01	2.6	M	1.30	1	0.088	173.291	7.51	7.52	5.04	4.99	19.2	19.25	37.6	36.91	2.83	2.78	20.89	20.925	10	11
M2	24/11/2023	Mid-Flood	Sunny	Low	11:01	2.6	M	1.30	2			7.52		19.3		36.2		2.72		20.96		11			
M3	24/11/2023	Mid-Flood	Sunny	Low	10:33	2	M	0.00	1	0.094	259.332	7.65	7.65	3.6	3.60	19.4	19.35	47.8	48.40	4.39	4.45	15.34	15.39	12	12
M3	24/11/2023	Mid-Flood	Sunny	Low	10:34	2	M	0.00	2			7.64		3.6		19.3		49		4.5		15.43		12	
M1	24/11/2023	Mid-Ebb	Sunny	Low	17:35	2.6	M	1.30	1	0.071	333.77	7.49	7.50	5.11	5.07	19.3	19.35	36.2	36.24	2.72	2.73	20.43	20.61	7	9
M1	24/11/2023	Mid-Ebb	Sunny	Low	17:37	2.6	M	1.30	2			7.5		5.02		19.4		36.3		2.73		20.79		10	
M2	24/11/2023	Mid-Ebb	Sunny	Low	17:02	2.4	M	1.20	1	0.06	322.939	7.45	7.44	5.12	5.14	19.3	19.30	35.8	35.31	2.69	2.66	20.64	20.565	3	4
M2	24/11/2023	Mid-Ebb	Sunny	Low	17:02	2.4	M	1.20	2			7.43		5.15		19.3		34.8		2.62		20.49		5	
M3	24/11/2023	Mid-Ebb	Sunny	Low	16:59	2.1	M	0.00	1	0.051	77.248	7.44	7.47	4.3	4.30	19.1	#####	35.2	35.80	3.33	3.34	23.33	23.38	2.5	3
M3	24/11/2023	Mid-Ebb	Sunny	Low	16:59	2.1	M	0.00	2			7.5		4.3		19.1		36.4		3.34		23.43		2.5	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	27/11/2023	Mid-Flood	Sunny	Low	12:59	2.4	M	1.20	1	0.079	167.053	8.12	8.13	6.63	6.60	20.8	20.80	41.0	40.96	3.08	3.08	35.69	35.825	59	65
M1	27/11/2023	Mid-Flood	Sunny	Low	13:00	2.4	M	1.20	2			8.13		6.57		20.8		41.0		3.08		35.96		71	
M2	27/11/2023	Mid-Flood	Sunny	Low	13:28	2.1	M	1.05	1	0.078	181.989	7.97	7.97	6.61	6.61	20.8	20.80	38.2	37.64	2.87	2.83	32.51	32.615	68	63
M2	27/11/2023	Mid-Flood	Sunny	Low	13:29	2.1	M	1.05	2			7.96		6.61		20.8		37.1		2.79		32.72		57	
M3	27/11/2023	Mid-Flood	Sunny	Low	12:59	2	M	0.00	1	0.074	255.971	7.45	7.45	3.5	3.55	20.2	111.20	50.9	51.00	4.77	4.78	30.22	30.72	71	67
M3	27/11/2023	Mid-Flood	Sunny	Low	12:59	2	M	0.00	2			7.44		3.6		202.2		51.1		4.78		31.21		63	
M1	27/11/2023	Mid-Ebb	Sunny	Low	10:11	2.2	M	1.10	1	0.071	322.437	7.89	7.89	6.62	6.59	20.9	20.90	35.6	34.98	2.68	2.63	37.47	37.43	56	54
M1	27/11/2023	Mid-Ebb	Sunny	Low	10:12	2.2	M	1.10	2			7.88		6.55		20.9		34.3		2.58		37.39		51	
M2	27/11/2023	Mid-Ebb	Sunny	Low	9:39	2	M	1.00	1	0.064	334.31	7.84	7.85	6.64	6.60	21.0	21.05	36.3	37.04	2.73	2.79	31.76	31.715	4	5
M2	27/11/2023	Mid-Ebb	Sunny	Low	9:40	2	M	1.00	2			7.86		6.55		21.1		37.8		2.84		31.67		5	
M3	27/11/2023	Mid-Ebb	Sunny	Low	9:35	1.3	M	0.00	1	0.061	74.315	7.65	7.66	3.6	3.80	21.3	21.35	32	32.10	2.99	3.01	44.3	44.65	3	3
M3	27/11/2023	Mid-Ebb	Sunny	Low	9:35	1.3	M	0.00	2			7.66		4		21.4		32.2		3.03		45		3	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

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4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	29/11/2023	Mid-Flood	Cloudy	Low	14:05	2.4	M	1.20	1	0.083	161.557	7.8	7.80	6.54	6.51	20.7	20.75	39.5	39.37	2.97	2.96	29.89	29.965	44	45
M1	29/11/2023	Mid-Flood	Cloudy	Low	14:06	2.4	M	1.20	2			7.79		6.48		20.8		39.2		2.95		30.04			
M2	29/11/2023	Mid-Flood	Cloudy	Low	14:38	2	M	1.00	1	0.091	184.584	7.76	7.76	6.62	6.63	20.8	20.85	39.4	39.30	2.96	2.96	32.19	32.27	47	45
M2	29/11/2023	Mid-Flood	Cloudy	Low	14:39	2	M	1.00	2			7.75		6.63		20.9		39.2		2.95		32.35			
M3	29/11/2023	Mid-Flood	Cloudy	Low	14:02	1.7	M	0.00	1	0.097	266.145	7.6	7.60	3.5	3.40	19.4	19.40	39.5	39.45	3.8	3.80	36.5	36.65	46	40
M3	29/11/2023	Mid-Flood	Cloudy	Low	14:02	1.7	M	0.00	2			7.6		3.3		19.4		39.4		3.79		36.8			
M1	29/11/2023	Mid-Ebb	Cloudy	Low	9:48	2.1	M	1.05	1	0.063	317.064	7.73	7.73	6.65	6.63	20.8	20.85	37.4	36.64	2.81	2.76	30.82	30.88	48	46
M1	29/11/2023	Mid-Ebb	Cloudy	Low	9:48	2.1	M	1.05	2			7.72		6.61		20.9		35.9		2.7		30.94			
M2	29/11/2023	Mid-Ebb	Cloudy	Low	9:16	1.8	M	0.90	1	0.068	316.904	7.7	7.70	6.73	6.72	20.9	20.95	37.1	37.24	2.79	2.80	37.90	37.86	4	5
M2	29/11/2023	Mid-Ebb	Cloudy	Low	9:17	1.8	M	0.90	2			7.69		6.7		21.0		37.4		2.81		37.82			
M3	29/11/2023	Mid-Ebb	Cloudy	Low	9:35	2	M	0.00	1	0.072	87.331	7.76	7.77	3.6	3.65	20.3	20.40	51	50.95	4.94	4.94	40.5	40.7	6	7
M3	29/11/2023	Mid-Ebb	Cloudy	Low	9:35	2	M	0.00	2			7.77		3.7		20.5		50.9		4.94		40.9			

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

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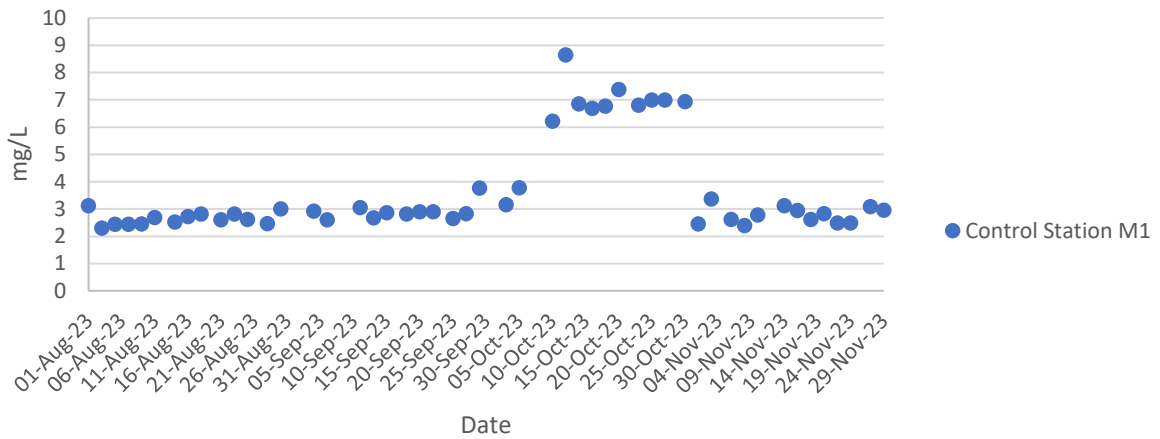
For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

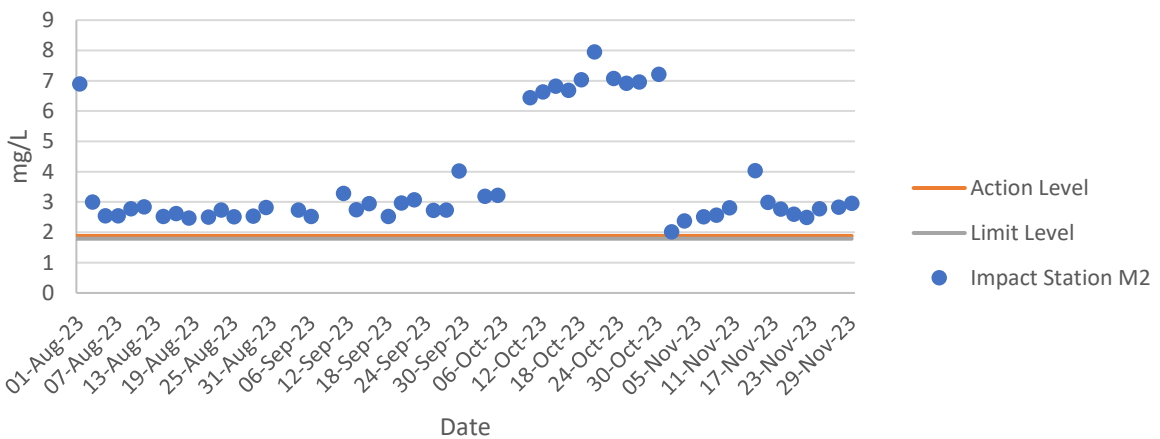
For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	51.1	59	68

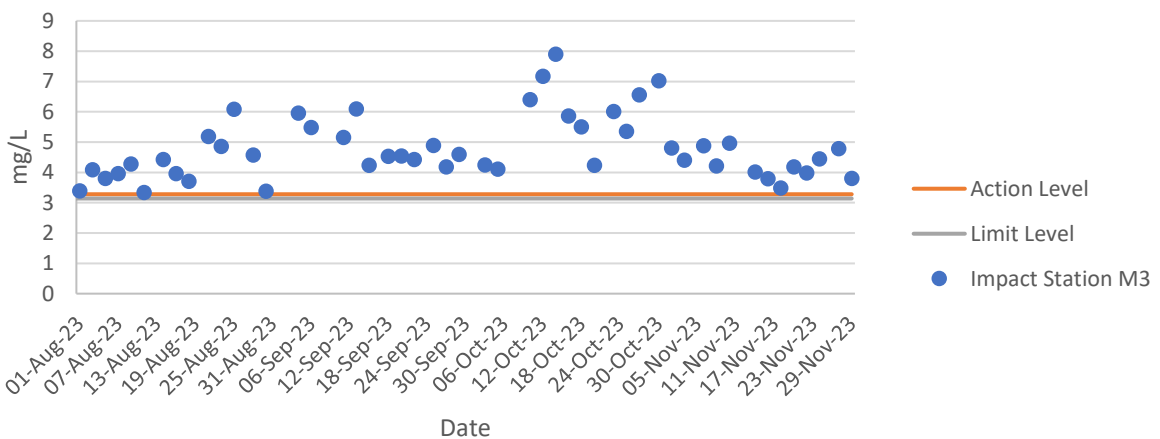
Dissolved Oxygen at Mid-Flood Tide

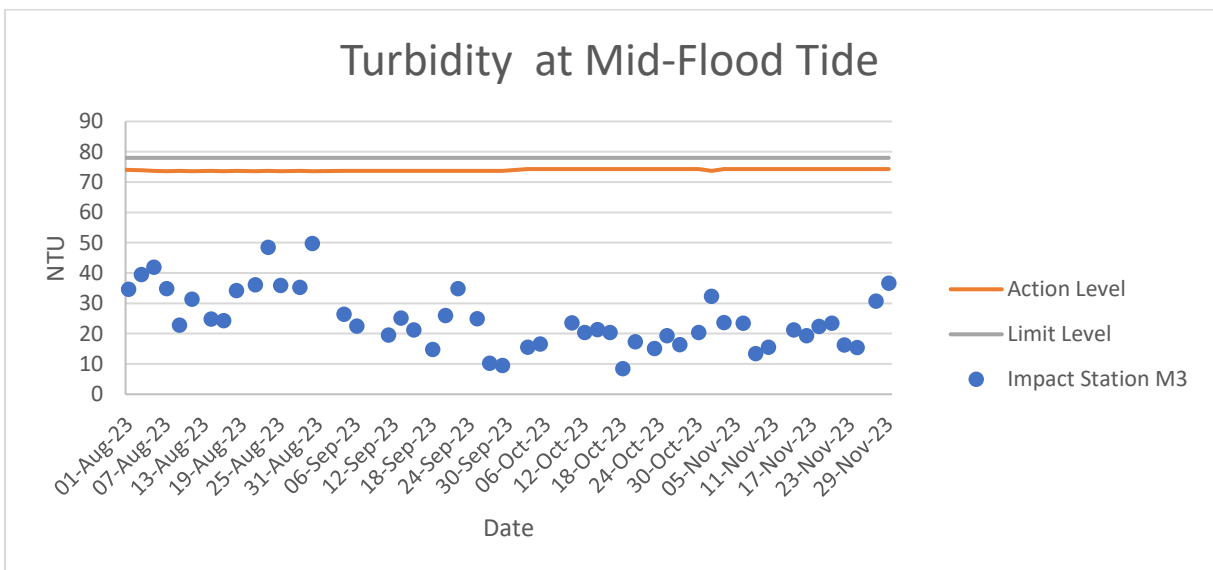
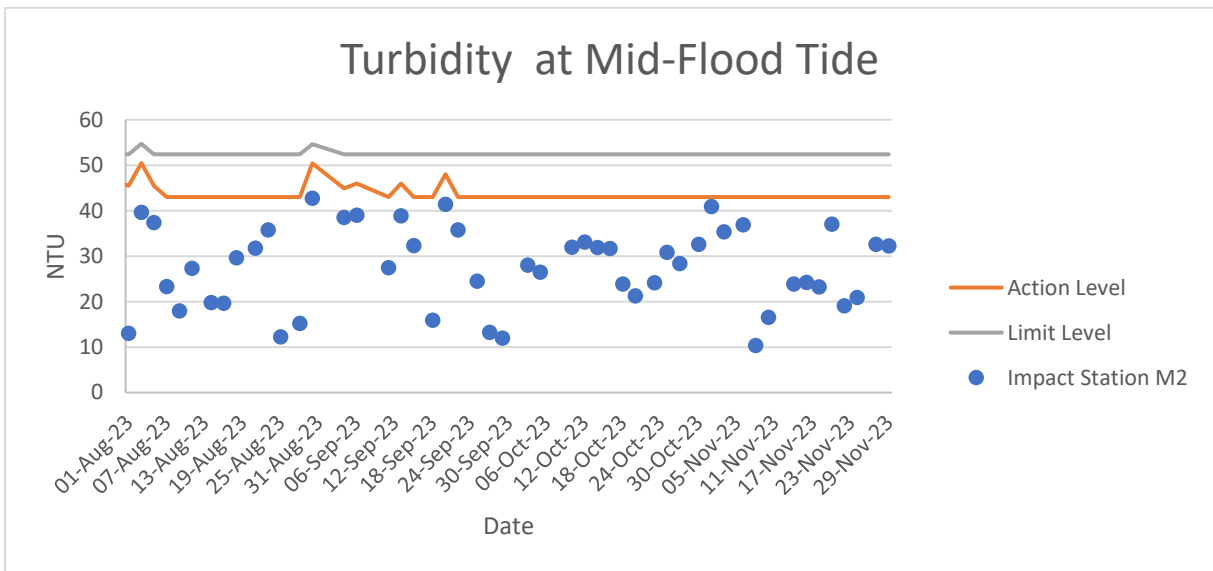
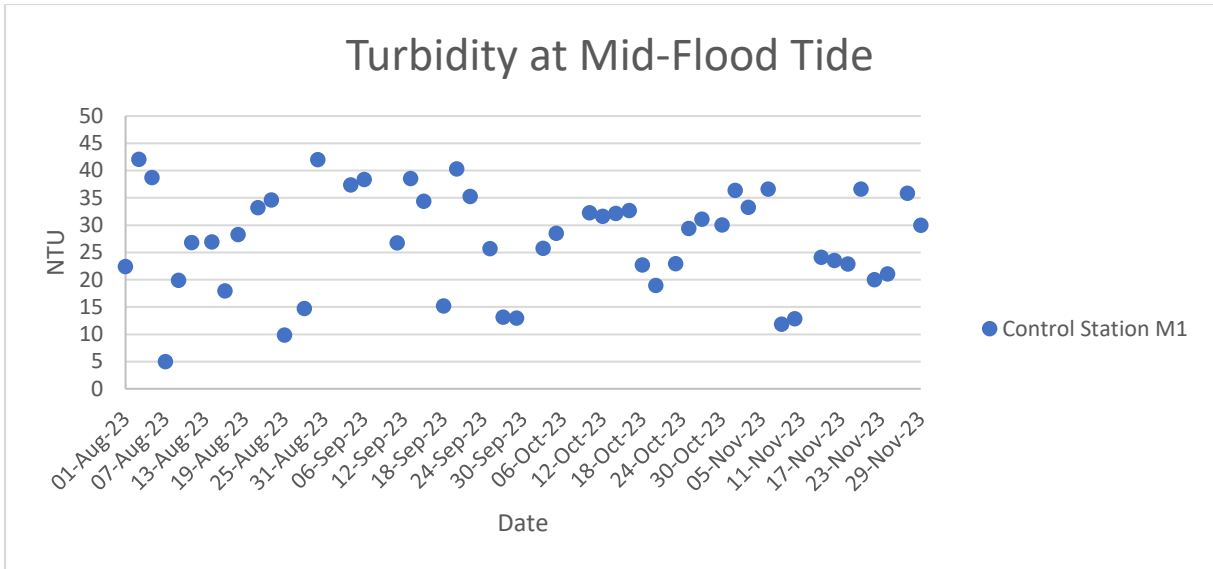


Dissolved Oxygen at Mid-Flood Tide



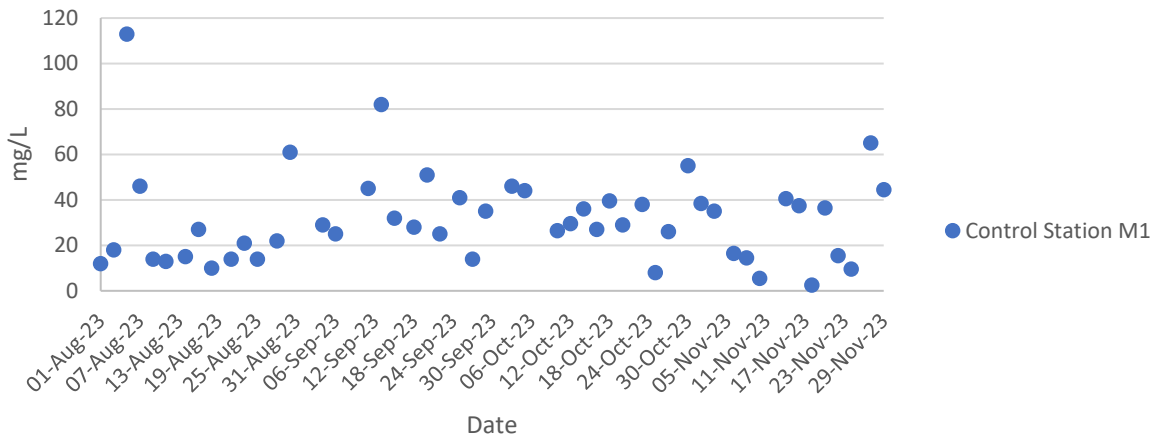
Dissolved Oxygen at Mid-Flood Tide



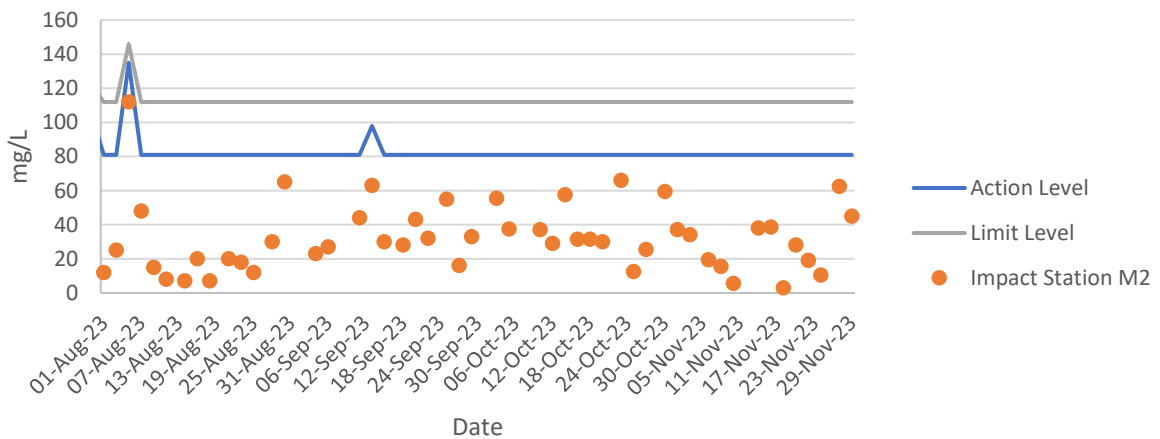


Water Quality Monitoring Results

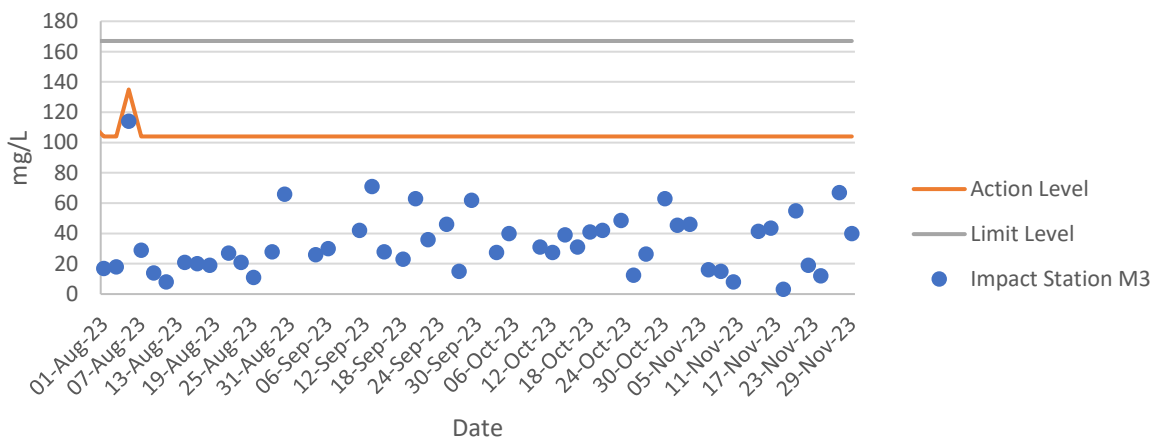
Total Suspended Solids at Mid-Flood Tide



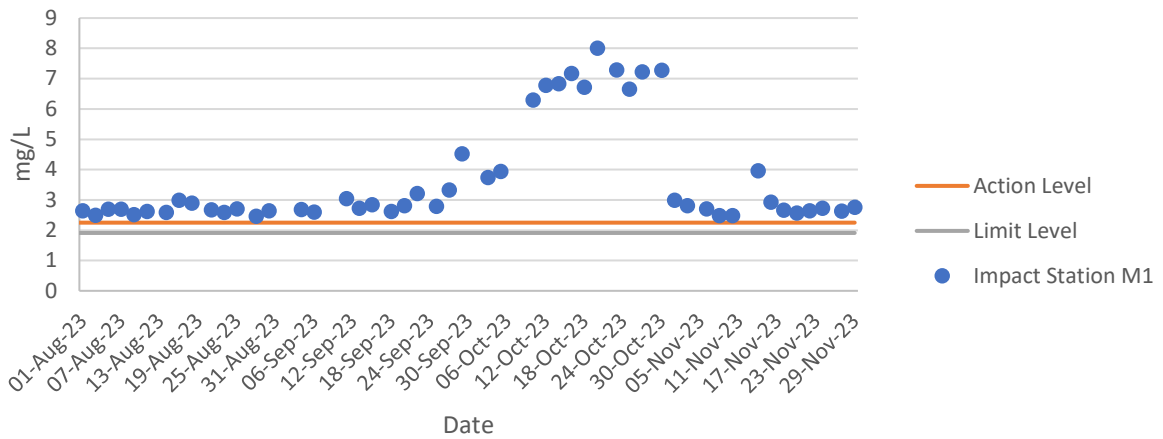
Total Suspended Solids at Mid-Flood Tide



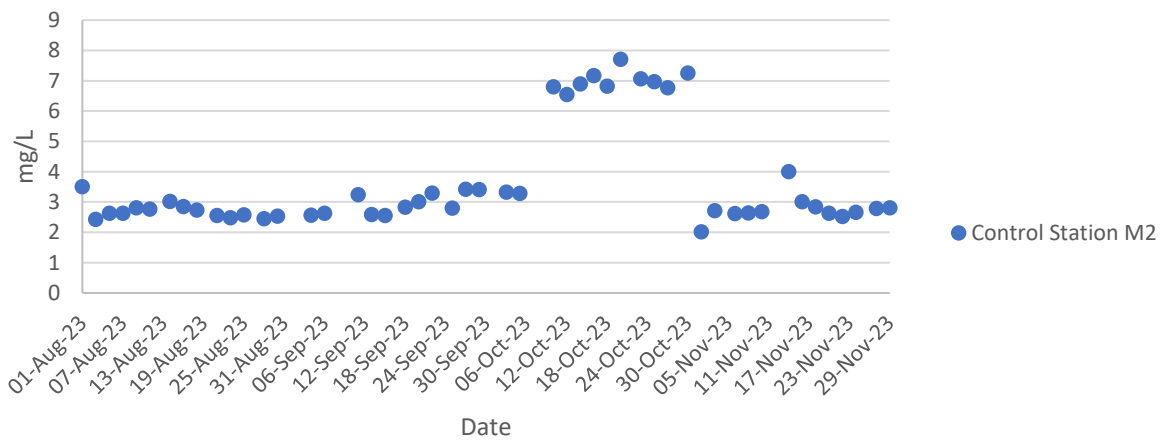
Total Suspended Solids at Mid-Flood Tide



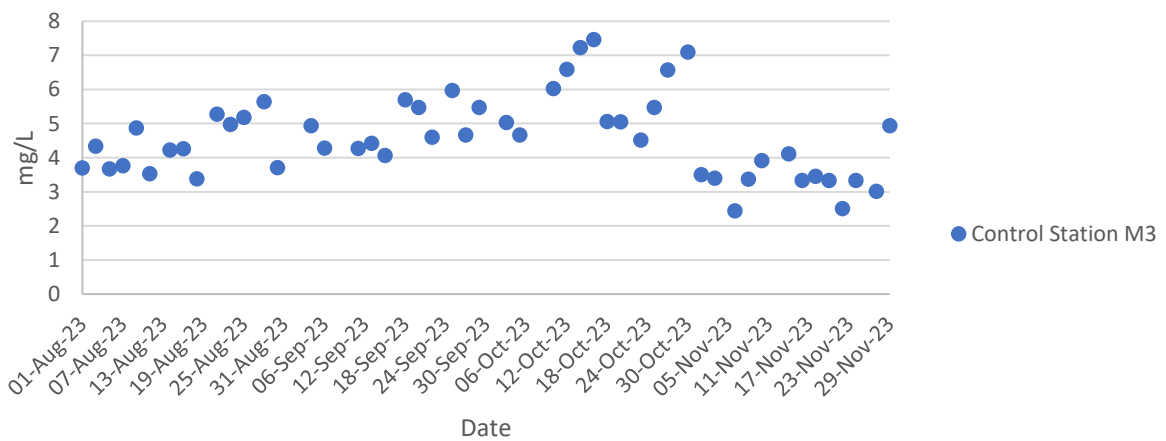
Dissolved Oxygen at Mid-Ebb Tide



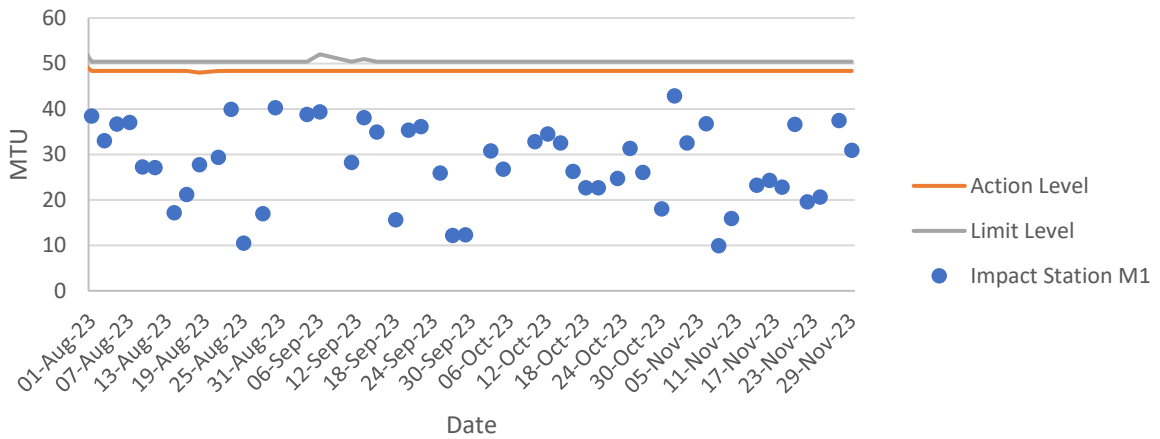
Dissolved Oxygen at Mid-Ebb Tide



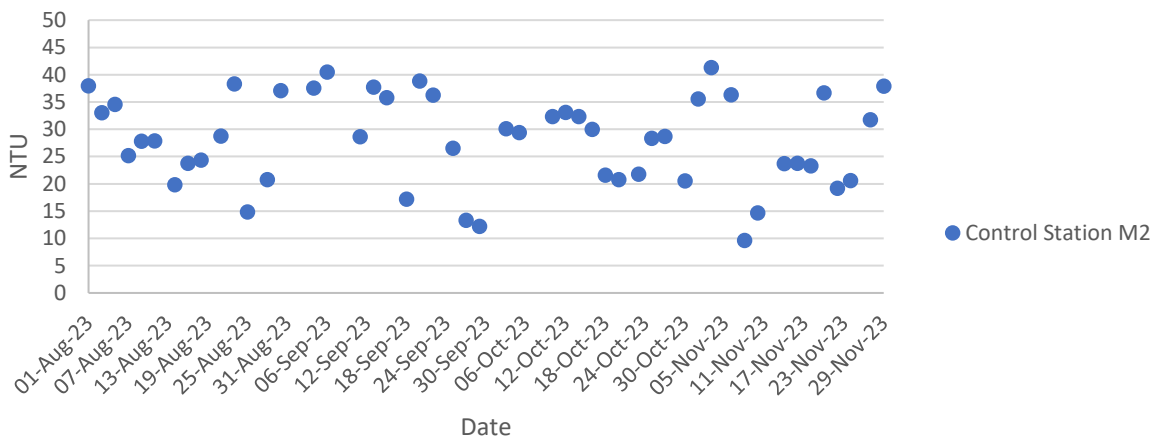
Dissolved Oxygen at Mid-Ebb Tide



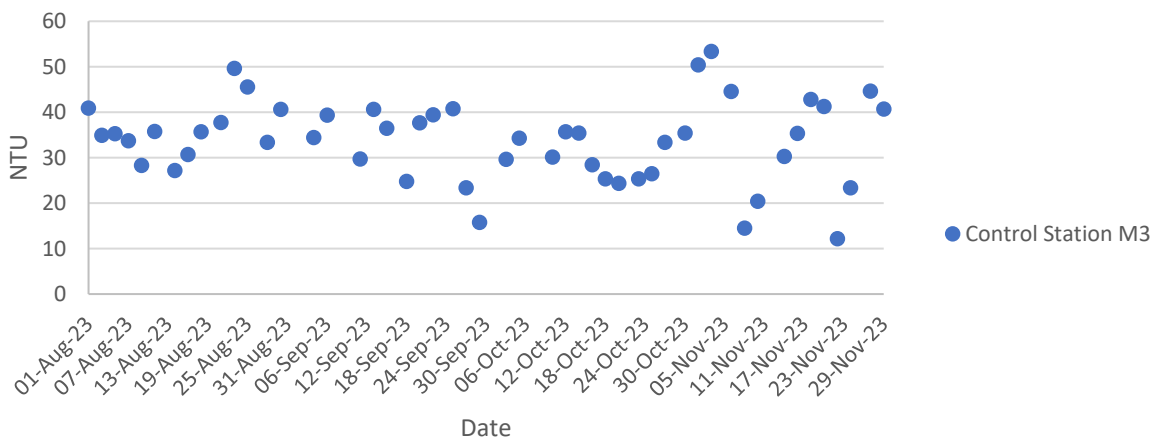
Turbidity at Mid-Ebb Tide



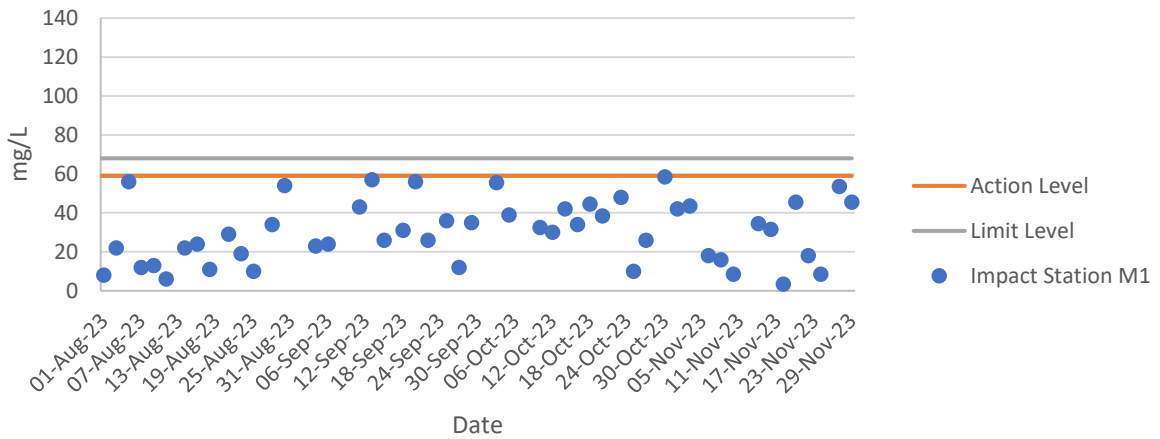
Turbidity at Mid-Ebb Tide



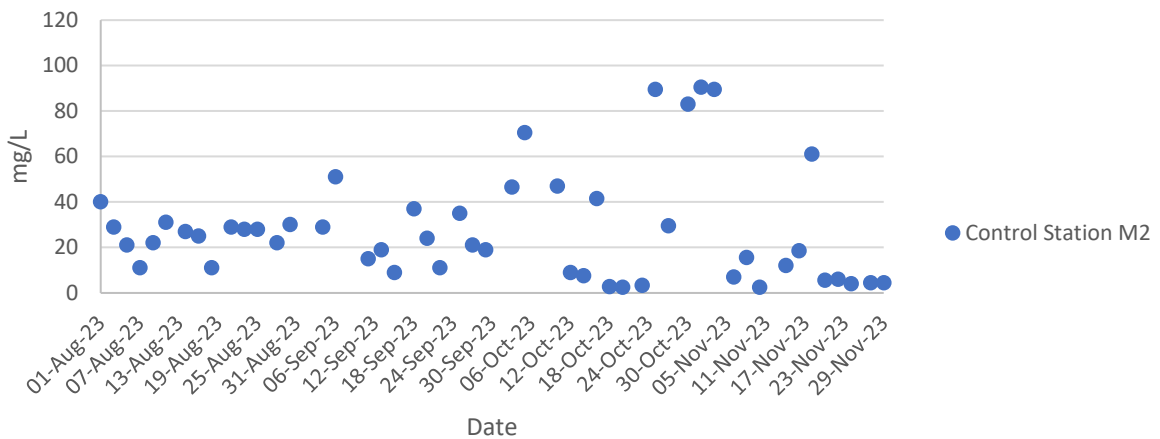
Turbidity at Mid-Ebb Tide



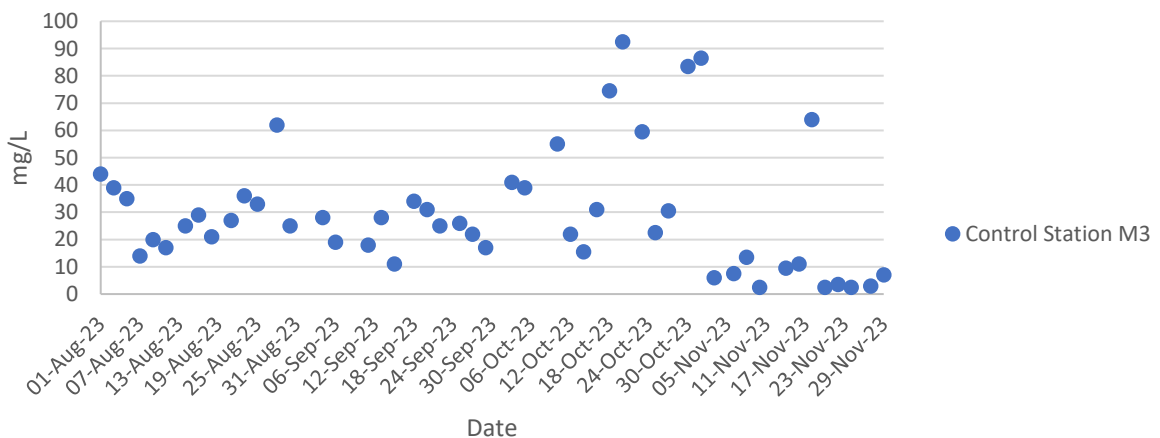
Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Ecology Monitoring Results for

Contract No. SPW 02/2023

Environmental Team for Construction of Yuen long

Effluent Polishing Plant Stage 1

Appendix F.1 Ecological Bird Monitoring Result (16 November 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	20	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Crested Myna	<i>Acridotheres cristatellus</i>	16	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	3	Common	-	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	6	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Transect	FLW	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	FLW	Transect	FLW	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Scaly-breasted Munia	<i>Lonchura punctulata</i>	29	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Eastern Buzzard	<i>Buteo japonicus</i>	1	Common	WV	-	Class II	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	2	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	5	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Collared Crow	<i>Corvus torquatus</i>	4	Uncommon	R	LC	-	-	NT	VU	Y	Y
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	5	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	1	Common	WV,Sp	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Transect	FLW	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	NSW	Transect	NSW	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Transect	NSW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Transect	NSW	Grey Heron	<i>Ardea cinerea</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Transect	NSW	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Transect	NSW	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Transect	NSW	Crested Myna	<i>Acridotheres cristatellus</i>	7	Common	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (16 November 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
16/11/2023	Daytime	Dry	NSW	Transect	NSW	Black-collared Starling	<i>Gracupica nigricollis</i>	4	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Transect	NSW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Transect	NSW	Common Moorhen	<i>Gallinula chloropus</i>	1	Common	R	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	NSW	Transect	NSW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Grey Heron	<i>Ardea cinerea</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Pied Kingfisher	<i>Ceryle rudis</i>	1	Uncommon	R	-	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-winged Stilt	<i>Himantopus himantopus</i>	9	Common	PM	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-tailed Godwit	<i>Limosa limosa</i>	4	Abundant	M,W	RC	-	Indeterminate	-	NT	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Northern Shoveler	<i>Spatula clypeata</i>	31	Abundant	WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Eurasian Teal	<i>Anas crecca</i>	8	Common	WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Great Cormorant	<i>Phalacrocorax carbo</i>	9	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Crested Myna	<i>Acridotheres cristatellus</i>	20	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Green Sandpiper	<i>Tringa ochropus</i>	1	Uncommon	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Moorhen	<i>Gallinula chloropus</i>	2	Common	R	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Marsh Sandpiper	<i>Tringa stagnatilis</i>	3	Common	PM,WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Pied Avocet	<i>Recurvirostra avosetta</i>	6	Abundant	WV	RC	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (16 November 2023)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Snipe	<i>Gallinago gallinago</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Eurasian Wigeon	<i>Mareca penelope</i>	5	Common	WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Black-collared Starling	<i>Gracupica nigricollis</i>	12	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Little Ringed Plover	<i>Charadrius dubius</i>	3	Common	WV,PM	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Black-winged stilt	<i>Himantopus himantopus</i>	7	Common	PM	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Common Greenshank	<i>Tringa nebularia</i>	2	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Wood Sandpiper	<i>Tringa glareola</i>	1	Common	PM,WV	LC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Crested Myna	<i>Acridotheres cristatellus</i>	5	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW1	White Wagtail	<i>Motacilla alba</i>	3	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Black-collared Starling	<i>Gracupica nigricollis</i>	12	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Crested Myna	<i>Acridotheres cristatellus</i>	16	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Black-faced Bunting	<i>Emberiza spodocephala</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (16 November 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	White Wagtail	<i>Motacilla alba</i>	3	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	5	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW2	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Crested Myna	<i>Acridotheres crisatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW3	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Black-winged Kite	<i>Elanus caeruleus</i>	1	Uncommon	O	LC	Class II	VU	NT	LC	Y	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Swinhoe's White-eye	<i>Zosterops simplex</i>	2	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Spotted Dove	<i>Spilopelia chinensis</i>	4	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Crested Myna	<i>Acridotheres crisatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N

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Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
16/11/2023	Daytime	Dry	FLW	Point Count	FLW4	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Olive-backed Pipit	<i>Anthus hodgsoni</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Black-collared Starling	<i>Gracupica nigricollis</i>	4	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Crested Myna	<i>Acridotheres cristatellus</i>	8	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Spotted Dove	<i>Spilopelia chinensis</i>	4	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Barn Swallow	<i>Hirundo rustica</i>	3	Abundant	PM,SV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Chinese Bulbul	<i>Pycnonotus sinensis</i>	4	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW5	Eurasian Tree Sparrow	<i>Passer montanus</i>	8	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Collared Crow	<i>Corvus torquatus</i>	2	Uncommon	R	LC	-	-	NT	VU	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Black-collared Starling	<i>Gracupica nigricollis</i>	8	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	2	Common	-	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (16 November 2023)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Large-billed Crow	<i>Corvus macrorhynchos</i>	1	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW6	Spotted Dove	<i>Spilopelia chinensis</i>	5	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	2	Common	-	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Black-collared Starling	<i>Gracupica nigricollis</i>	6	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Eurasian Teal	<i>Anas crecca</i>	3	Common	WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	FLW	Point Count	FLW7	Azure-winged Magpie	<i>Cyanopica cyanus</i>	2	Introduced	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	NSW1	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	NSW	Point Count	NSW1	Azure-winged Magpie	<i>Cyanopica cyanus</i>	4	Introduced	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	NSW1	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	NSW1	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	NSW1	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	NSW1	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	2	Common	-	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Moorhen	<i>Gallinula chloropus</i>	4	Common	R	-	-	-	LC	LC	N	Y

Appendix F.1 Ecological Bird Monitoring Result (16 November 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Greenshank	<i>Tringa nebularia</i>	2	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Black-winged Stilt	<i>Himantopus himantopus</i>	6	Common	PM	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Northern Shoveler	<i>Spatula clypeata</i>	4	Abundant	WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Plain Prinia	<i>Prinia inornata</i>	8	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Swinhoe's White-eye	<i>Zosterops simplex</i>	2	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW1	Eurasian Teal	<i>Anas crecca</i>	6	Common	WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW2	Azure-winged Magpie	<i>Cyanopica cyanus</i>	12	Introduced	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW2	Black-collared Starling	<i>Gracupica nigricollis</i>	6	Common	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Myna	<i>Acridotheres tristis</i>	2	Uncommon	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW2	Great Cormorant	<i>Phalacrocorax carbo</i>	191	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW2	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW2	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-tailed Godwit	<i>Limosa limosa</i>	3	Abundant	M,W	RC	-	Indeterminate	-	NT	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Grey Heron	<i>Ardea cinerea</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-winged Stilt	<i>Himantopus himantopus</i>	9	Common	PM	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Eurasian Wigeon	<i>Mareca penelope</i>	24	Common	WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Eurasian Teal	<i>Anas crecca</i>	36	Common	WV	RC	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (16 November 2023)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Tufted Duck	<i>Aythya fuligula</i>	30	Uncommon	WV	LC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Garganey	<i>Spatula querquedula</i>	4	Common	M,W	-	-	-	-	LC	N	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Marsh Sandpiper	<i>Tringa stagnatilis</i>	2	Common	PM,WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Greenshank	<i>Tringa nebularia</i>	6	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Redshank	<i>Tringa totanus</i>	14	Common	PM	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Northern Shoveler	<i>Spatula clypeata</i>	12	Abundant	WV	RC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Great Cormorant	<i>Phalacrocorax carbo</i>	12	Common	WV	PRC	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Sandpiper	<i>Actitis hypoleucos</i>	4	Common	PM,WV	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Moorhen	<i>Gallinula chloropus</i>	3	Common	R	-	-	-	LC	LC	N	Y
16/11/2023	Daytime	Dry	NSW	Point Count	SP/NSW3	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y

Notes:

- All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).
- AFCD (2021). Hong Kong Biodiversity Database.
- Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;
- Fellowes et al. (2002): GC=Global Concern; LC=Local Concern; RC=Regional Concern; PRC=Potential Regional Concern; PGC: Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.
- List of Wild Animals under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).
- Zheng, G. M. and Wang, Q. S. (1998). China Red Data Book
- IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.
- Wetland-dependent species (including wetland-dependent species and waterbirds).
- Jiang et al. (2016). Red List of China's Vertebrates

Appendix F.2.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (16 November 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Spatula querquedula</i>	4	0.005822	-5.14604	-0.02996	0.154188
<i>Anas clypeata</i>	16	0.02329	-3.75975	-0.08756	0.329215
<i>Anas penelope</i>	24	0.034934	-3.35428	-0.11718	0.393055
<i>Anas crecca</i>	45	0.065502	-2.72567	-0.17854	0.486635
<i>Aythya fuligula</i>	30	0.043668	-3.13114	-0.13673	0.428123
<i>Tachybaptus ruficollis</i>	4	0.005822	-5.14604	-0.02996	0.154188
<i>Ardeola bacchus</i>	24	0.034934	-3.35428	-0.11718	0.393055
<i>Ardea cinerea</i>	9	0.0131	-4.33511	-0.05679	0.246199
<i>Ardea alba</i>	2	0.002911	-5.83919	-0.017	0.099261
<i>Egretta garzetta</i>	5	0.007278	-4.9229	-0.03583	0.176382
<i>Phalacrocorax carbo</i>	224	0.326055	-1.12069	-0.36541	0.409507
<i>Elanus caeruleus</i>	1	0.001456	-6.53233	-0.00951	0.062113
<i>Milvus migrans</i>	4	0.005822	-5.14604	-0.02996	0.154188
<i>Amaurornis phoenicurus</i>	2	0.002911	-5.83919	-0.017	0.099261
<i>Gallinula chloropus</i>	7	0.010189	-4.58642	-0.04673	0.214333
<i>Himantopus himantopus</i>	22	0.032023	-3.44129	-0.1102	0.379235
<i>Charadrius dubius</i>	3	0.004367	-5.43372	-0.02373	0.128932
<i>Limosa limosa</i>	3	0.004367	-5.43372	-0.02373	0.128932
<i>Actitis hypoleucos</i>	8	0.011645	-4.45289	-0.05185	0.230897
<i>Tringa totanus</i>	18	0.026201	-3.64196	-0.09542	0.347526
<i>Tringa stagnatilis</i>	2	0.002911	-5.83919	-0.017	0.099261
<i>Tringa glareola</i>	1	0.001456	-6.53233	-0.00951	0.062113
<i>Tringa nebularia</i>	10	0.014556	-4.22975	-0.06157	0.260419
<i>Streptopelia decaocto</i>	6	0.008734	-4.74057	-0.0414	0.196271
<i>Spilopelia chinensis</i>	20	0.029112	-3.5366	-0.10296	0.364121
<i>Centropus sinensis</i>	2	0.002911	-5.83919	-0.017	0.099261
<i>Halcyon smyrnensis</i>	2	0.002911	-5.83919	-0.017	0.099261
<i>Alcedo atthis</i>	4	0.005822	-5.14604	-0.02996	0.154188
<i>Lanius schach</i>	2	0.002911	-5.83919	-0.017	0.099261
<i>Cyanopica cyanus</i>	18	0.026201	-3.64196	-0.09542	0.347526
<i>Corvus torquatus</i>	2	0.002911	-5.83919	-0.017	0.099261
<i>Corvus macrorhynchos</i>	1	0.001456	-6.53233	-0.00951	0.062113
<i>Pycnonotus jocosus</i>	3	0.004367	-5.43372	-0.02373	0.128932
<i>Pycnonotus sinensis</i>	15	0.021834	-3.82428	-0.0835	0.319326
<i>Hirundo rustica</i>	3	0.004367	-5.43372	-0.02373	0.128932
<i>Phylloscopus fuscatus</i>	4	0.005822	-5.14604	-0.02996	0.154188
<i>Prinia inornata</i>	10	0.014556	-4.22975	-0.06157	0.260419
<i>Garrulax perspicillatus</i>	5	0.007278	-4.9229	-0.03583	0.176382
<i>Zosterops japonicus</i>	4	0.005822	-5.14604	-0.02996	0.154188
<i>Acridotheres cristatellus</i>	40	0.058224	-2.84345	-0.16556	0.470756
<i>Acridotheres tristis</i>	2	0.002911	-5.83919	-0.017	0.099261
<i>Gracupica nigricollis</i>	50	0.07278	-2.62031	-0.19071	0.499711
<i>Passer montanus</i>	8	0.011645	-4.45289	-0.05185	0.230897
<i>Motacilla tschutschensis</i>	2	0.002911	-5.83919	-0.017	0.099261

<i>Motacilla alba</i>	13	0.018923	-3.96738	-0.07507	0.297848
<i>Anthus hodgsoni</i>	1	0.001456	-6.53233	-0.00951	0.062113
<i>Emberiza spodocephala</i>	2	0.002911	-5.83919	-0.017	0.099261
Total	687	1	-222.9685788	-2.847579869	10.13974922
Richness	47				
SS	10.13974922				
SQ	8.10871111				
H	2.847579869				
S ² H	0.003005119				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (16 November 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	16	0.03532	-3.3433	-0.11809	0.394797
<i>Anas penelope</i>	24	0.05298	-2.93784	-0.15565	0.457266
<i>Anas crecca</i>	45	0.099338	-2.30923	-0.22939	0.529723
<i>Aythya fuligula</i>	30	0.066225	-2.71469	-0.17978	0.488051
<i>Tachybaptus ruficollis</i>	4	0.00883	-4.7296	-0.04176	0.19752
<i>Ardeola bacchus</i>	24	0.05298	-2.93784	-0.15565	0.457266
<i>Ardea cinerea</i>	9	0.019868	-3.91867	-0.07785	0.305085
<i>Ardea alba</i>	2	0.004415	-5.42274	-0.02394	0.129829
<i>Egretta garzetta</i>	5	0.011038	-4.50645	-0.04974	0.224152
<i>Phalacrocorax carbo</i>	224	0.494481	-0.70425	-0.34824	0.245244
<i>Elanus caeruleus</i>	1	0.002208	-6.11589	-0.0135	0.08257
<i>Milvus migrans</i>	4	0.00883	-4.7296	-0.04176	0.19752
<i>Himantopus himantopus</i>	22	0.048565	-3.02485	-0.1469	0.444357
<i>Charadrius dubius</i>	3	0.006623	-5.01728	-0.03323	0.166709
<i>Limosa limosa</i>	3	0.006623	-5.01728	-0.03323	0.166709
<i>Tringa totanus</i>	18	0.039735	-3.22552	-0.12817	0.413403
<i>Tringa stagnatilis</i>	2	0.004415	-5.42274	-0.02394	0.129829
<i>Tringa glareola</i>	1	0.002208	-6.11589	-0.0135	0.08257
<i>Tringa nebularia</i>	10	0.022075	-3.81331	-0.08418	0.321
<i>Centropus sinensis</i>	2	0.004415	-5.42274	-0.02394	0.129829
<i>Halcyon smyrnensis</i>	2	0.004415	-5.42274	-0.02394	0.129829
<i>Corvus torquatus</i>	2	0.004415	-5.42274	-0.02394	0.129829
Total	453	1	-92.2752	-1.97032	5.823083
Richness	22				
SS	5.823083342				
SQ	3.882165535				
H	1.970321176				
S ² H	0.004335754				

Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (16 November 2023)

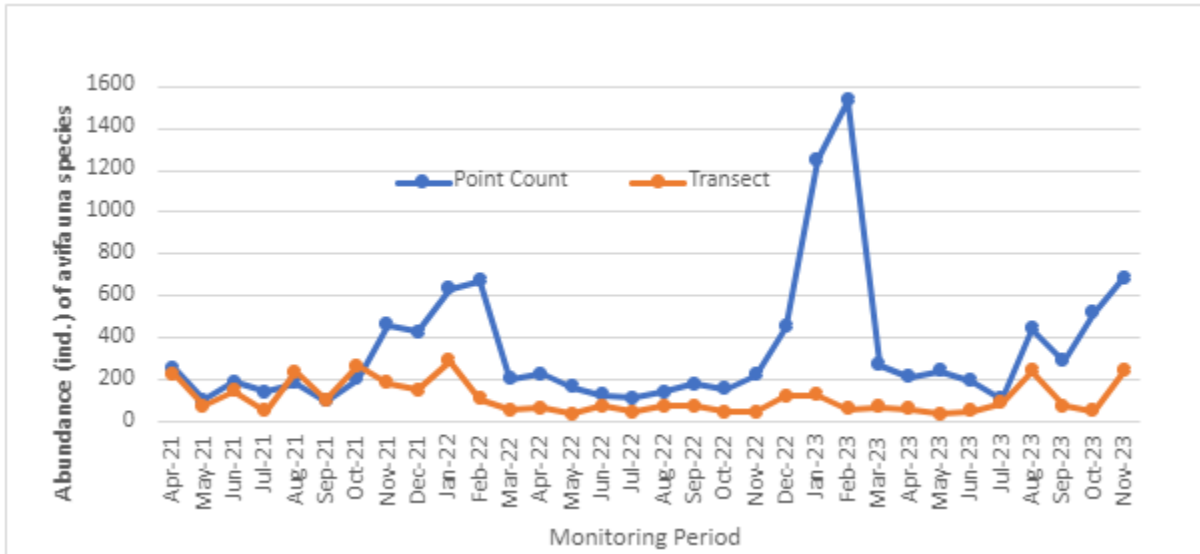
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	31	0.12757202	-2.05907	-0.26268	0.54088
<i>Anas penelope</i>	5	0.02057613	-3.88362	-0.07991	0.31034
<i>Anas crecca</i>	8	0.03292181	-3.41362	-0.11238	0.38363
<i>Ardeola bacchus</i>	7	0.02880658	-3.54715	-0.10218	0.36245
<i>Ardea cinerea</i>	8	0.03292181	-3.41362	-0.11238	0.38363
<i>Ardea alba</i>	4	0.01646091	-4.10677	-0.0676	0.27762
<i>Phalacrocorax carbo</i>	16	0.06584362	-2.72047	-0.17913	0.48731
<i>Buteo japonicus</i>	1	0.00411523	-5.49306	-0.02261	0.12417
<i>Amaurornis phoenicurus</i>	3	0.01234568	-4.39445	-0.05425	0.23841
<i>Gallinula chloropus</i>	3	0.01234568	-4.39445	-0.05425	0.23841
<i>Himantopus himantopus</i>	9	0.03703704	-3.29584	-0.12207	0.40232
<i>Recurvirostra avosetta</i>	6	0.02469136	-3.7013	-0.09139	0.33826
<i>Limosa limosa</i>	4	0.01646091	-4.10677	-0.0676	0.27762
<i>Gallinago gallinago</i>	2	0.00823045	-4.79991	-0.03951	0.18962
<i>Actitis hypoleucos</i>	2	0.00823045	-4.79991	-0.03951	0.18962
<i>Tringa ochropus</i>	1	0.00411523	-5.49306	-0.02261	0.12417
<i>Tringa totanus</i>	2	0.00823045	-4.79991	-0.03951	0.18962
<i>Tringa stagnatilis</i>	3	0.01234568	-4.39445	-0.05425	0.23841
<i>Streptopelia decaocto</i>	3	0.01234568	-4.39445	-0.05425	0.23841
<i>Spilopelia chinensis</i>	2	0.00823045	-4.79991	-0.03951	0.18962
<i>Halcyon smyrnensis</i>	3	0.01234568	-4.39445	-0.05425	0.23841
<i>Alcedo atthis</i>	1	0.00411523	-5.49306	-0.02261	0.12417
<i>Ceryle rudis</i>	1	0.00411523	-5.49306	-0.02261	0.12417
<i>Lanius schach</i>	1	0.00411523	-5.49306	-0.02261	0.12417
<i>Corvus torquatus</i>	4	0.01646091	-4.10677	-0.0676	0.27762
<i>Pycnonotus sinensis</i>	5	0.02057613	-3.88362	-0.07991	0.31034
<i>Phylloscopus inornatus</i>	1	0.00411523	-5.49306	-0.02261	0.12417
<i>Phylloscopus fuscatus</i>	2	0.00823045	-4.79991	-0.03951	0.18962
<i>Prinia flaviventris</i>	2	0.00823045	-4.79991	-0.03951	0.18962
<i>Orthotomus sutorius</i>	1	0.00411523	-5.49306	-0.02261	0.12417
<i>Garrulax perspicillatus</i>	2	0.00823045	-4.79991	-0.03951	0.18962

<i>Acridotheres cristatellus</i>	43	0.17695473	-1.73186	-0.30646	0.53075
<i>Gracupica nigricollis</i>	24	0.09876543	-2.31501	-0.22864	0.52931
<i>Copsychus saularis</i>	2	0.00823045	-4.79991	-0.03951	0.18962
<i>Lonchura punctulata</i>	29	0.11934156	-2.12577	-0.25369	0.53929
<i>Motacilla alba</i>	2	0.00823045	-4.79991	-0.03951	0.18962
Total	243	1	-152.034	-2.91868	9.71923
Richness	36				
SS	9.719229173				
SQ	8.518679324				
H	2.918677667				
S ² H	0.005236898				

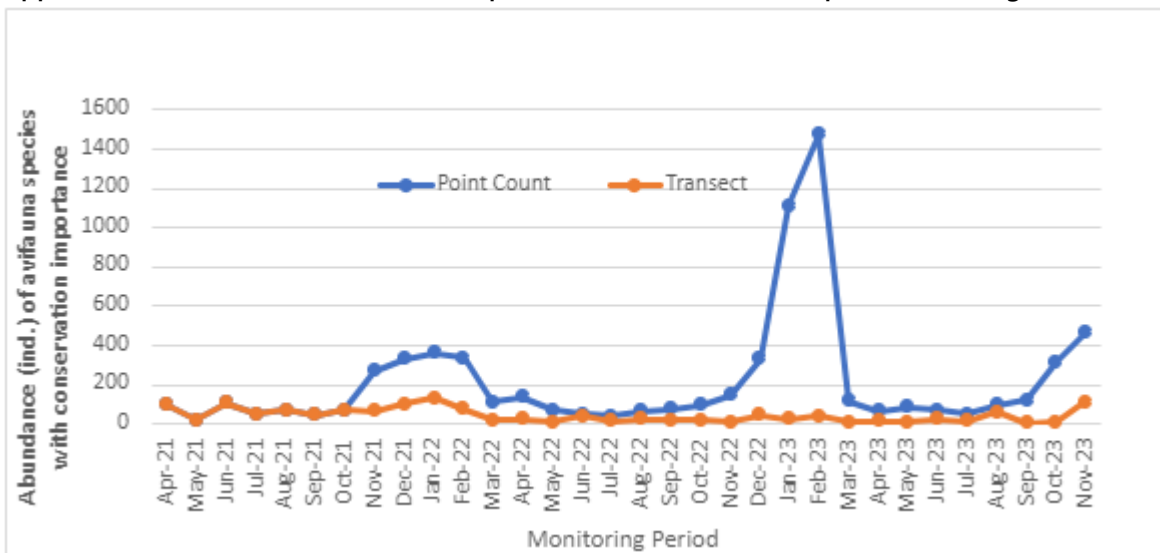
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (16 November 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	31	0.276786	-1.28451	-0.355534	0.456688
<i>Anas penelope</i>	5	0.044643	-3.10906	-0.138797	0.431529
<i>Anas crecca</i>	8	0.071429	-2.63906	-0.188504	0.497473
<i>Ardeola bacchus</i>	7	0.0625	-2.77259	-0.173287	0.480453
<i>Ardea cinerea</i>	8	0.071429	-2.63906	-0.188504	0.497473
<i>Ardea alba</i>	4	0.035714	-3.3322	-0.119007	0.396557
<i>Phalacrocorax carbo</i>	16	0.142857	-1.94591	-0.277987	0.540938
<i>Buteo japonicus</i>	1	0.008929	-4.7185	-0.042129	0.198788
<i>Himantopus himantopus</i>	9	0.080357	-2.52127	-0.202602	0.510816
<i>Recurvirostra avosetta</i>	6	0.053571	-2.92674	-0.15679	0.458882
<i>Limosa limosa</i>	4	0.035714	-3.3322	-0.119007	0.396557
<i>Tringa totanus</i>	2	0.017857	-4.02535	-0.071881	0.289347
<i>Tringa stagnatilis</i>	3	0.026786	-3.61989	-0.096961	0.350989
<i>Halcyon smyrnensis</i>	3	0.026786	-3.61989	-0.096961	0.350989
<i>Ceryle rudis</i>	1	0.008929	-4.7185	-0.042129	0.198788
<i>Corvus torquatus</i>	4	0.035714	-3.3322	-0.119007	0.396557
Total	112	1	-50.5369	-2.389091	6.452824
Richness	16				
SS	6.45282395				
SQ	5.707753886				
H	2.389090598				
S ² H	0.007250307				

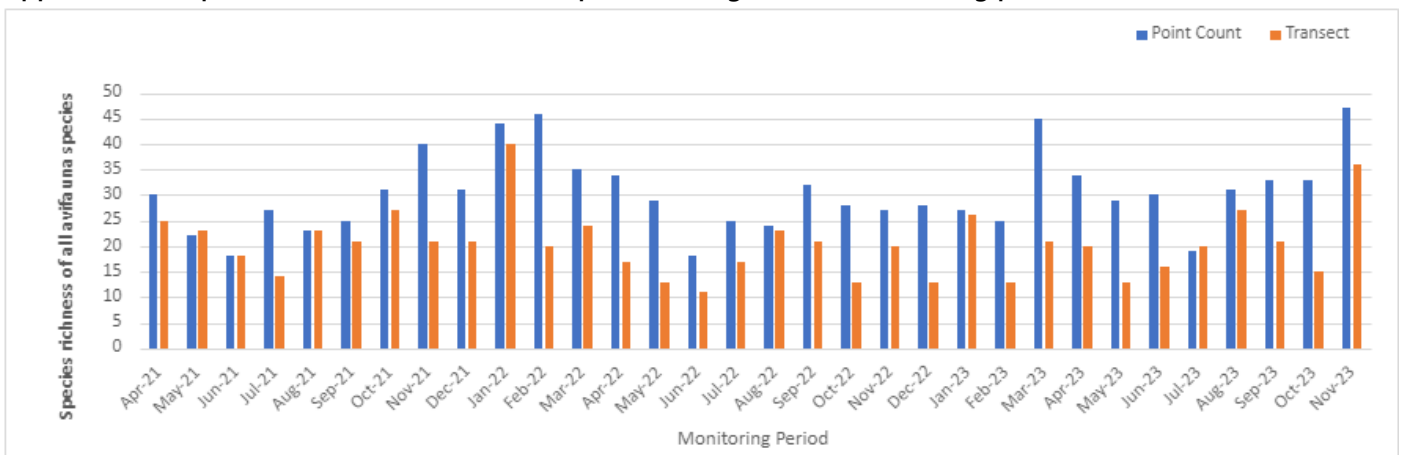
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



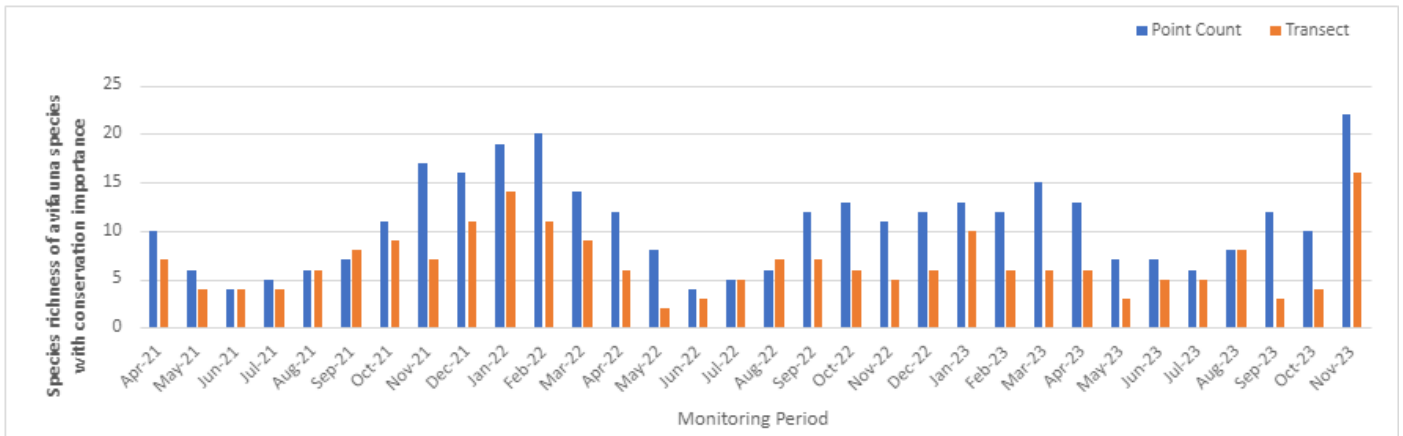
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period

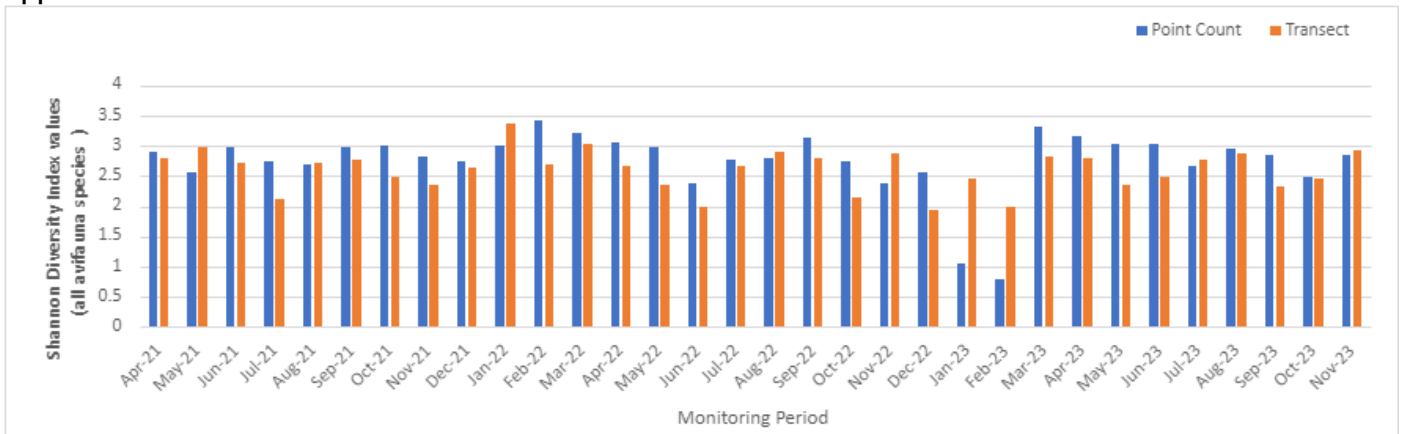


Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period

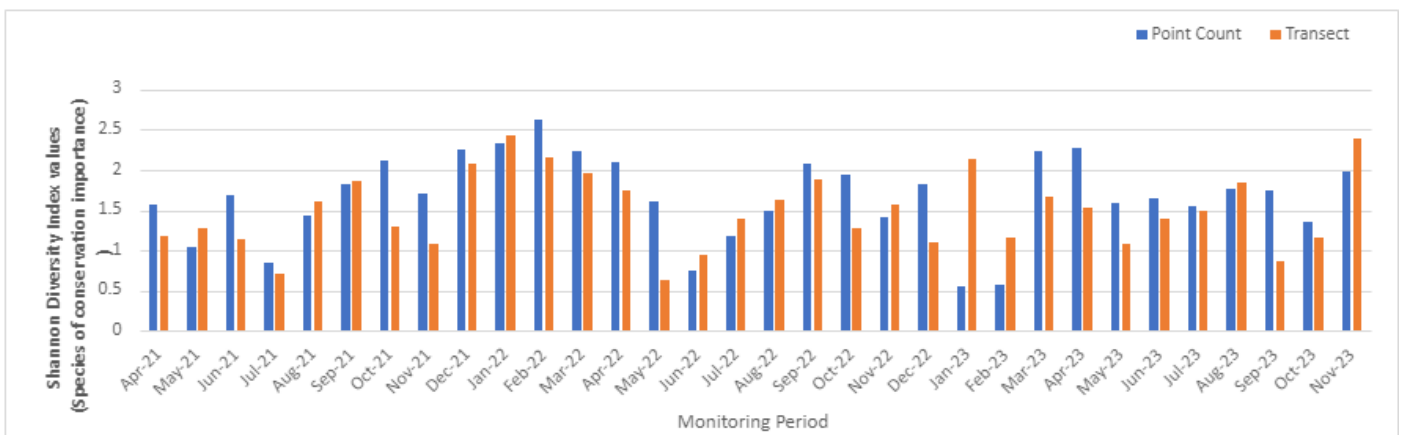


Appendix F.5.1 Shannon Diversity Index values of all avifauna species throughout the monitoring period

Append



ix F.5.2 Shannon Diversity Index values of avifauna species with conservation importance throughout the monitoring period



Appendix F.6. Hutcheson t-test testing method and output

Formula:

$$t = \frac{H_a - H_b}{\sqrt{S_{H_a}^2 + S_{H_b}^2}}$$

Appendix F.6.1 Species diversity of all avifauna species – Point Count Method

Months	November 2016	November 2023
Total	608	687
Richness	48	47
H	2.814	2.848
S ² H	0.003 43	0.003
t	0.416	
df	2141.002	
Crit	1.961	
p	0.678	
CI	0.117	0.11

Appendix F.6.2 Species diversity of all avifauna species – Transect Walk Method

Months	November 2016	November 2023
Total	125	243
Richness	20	36
H	2.39	2.919
S ² H	0.010 2	0.0052 4
t	4.261	
df	287.167	
Crit	1.968	
p	0.0000276	
CI	0.202	0.145

Appendix F.6.3 Species diversity of avifauna species with conservation importance – Point Count Method

Months	November 2016	November 2023
Total	394	453
Richness	20	22
H	1.910	1.970
S ² H	0.00481	0.00434
t	0.627	
df	1424.152	
Crit	1.962	
p	0.531	
CI	0.139	0.132

Appendix F.6.4 Species diversity of avifauna species with conservation importance – Transect Walk Method

Months	November 2016	November 2023
Total	59	112
Richness	7	16
H	1.122	2.389
S ² H	0.0221	0.007252
t	7.3972	
df	104.040	
Crit	1.983	
p	0.0000000000371	
CI	0.297 4	0.170