
Air Quality Monitoring Results

1-hour TSP Monitoring Result for

Contract No. SPW 07/2020

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 (ug/m^3)	Limit Level (ug/m^3)
			1st Measurement	2nd Measurement	3rd Measurement		
3-Nov-21	Cloudy	8:43	35	41	44	291	500
9-Nov-21	Fine	9:19	53	48	47		
15-Nov-21	Cloudy	8:31	29	33	26		
20-Nov-21	Fine	8:29	26	24	29		
26-Nov-21	Fine	8:33	32	36	27		
		Min	24				
		Max	53				
		Average	35				

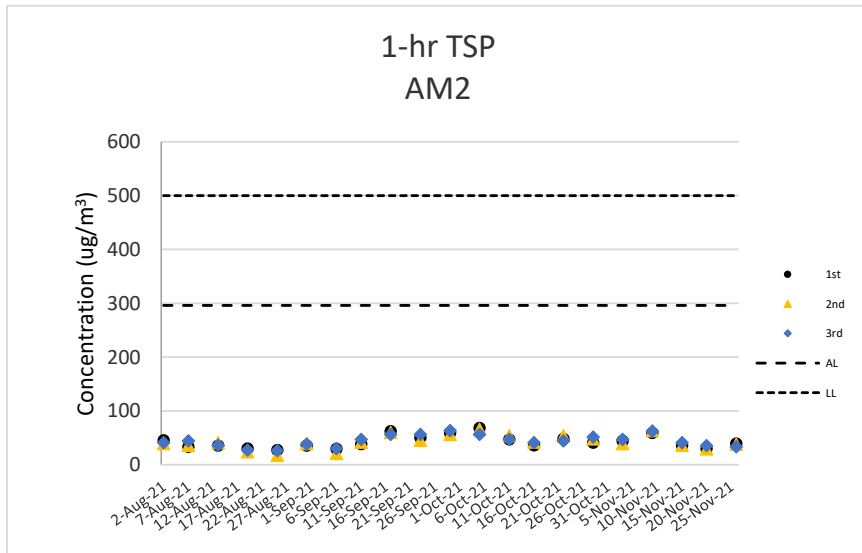
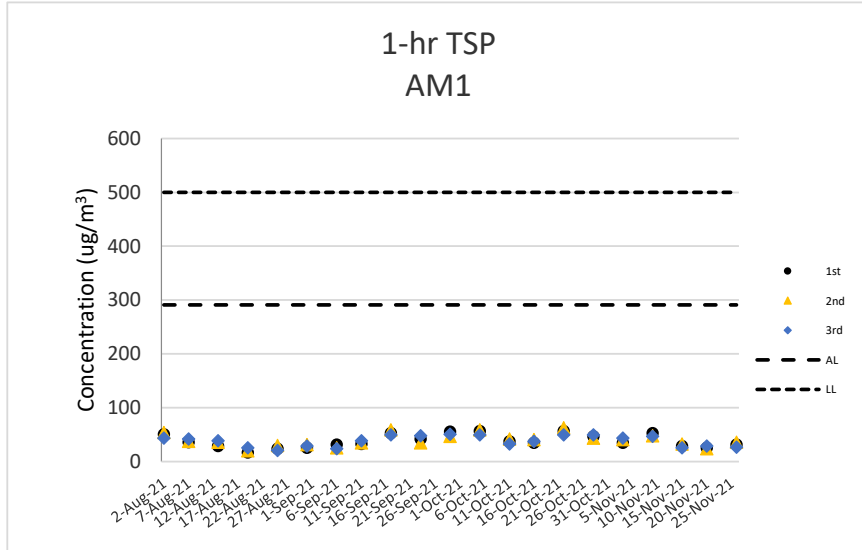
AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level (ug/m^3)	Limit Level (ug/m^3)
			1st Measurement	2nd Measurement	3rd Measurement		
3-Nov-21	Cloudy	8:56	44	39	47	296	500
9-Nov-21	Fine	8:32	59	63	62		
15-Nov-21	Cloudy	8:43	35	36	41		
20-Nov-21	Fine	8:43	30	29	35		
26-Nov-21	Fine	8:46	39	38	33		
		Min	29				
		Max	63				
		Average	42				

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level



Noise Monitoring Results

**Noise Impact Monitoring Result for
Contract No. SPW 07/2020
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)
3-Nov-21	10:09	53	55	51	0.1	Cloudy	75
9-Nov-21	11:26	54	55	51	0.4	Fine	75
15-Nov-21	10:11	55	57	52	0.1	Cloudy	75
26-Nov-21	10:06	54	55	51	0.1	Fine	75
	Max	55					
	Min	53					

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)
3-Nov-21	9:01	63	67	55	0.3	Cloudy	75
9-Nov-21	8:37	62	66	55	0.5	Fine	75
15-Nov-21	8:49	63	67	56	0.2	Cloudy	75
26-Nov-21	8:52	61	64	56	0.3	Fine	75
	Max	63					
	Min	61					

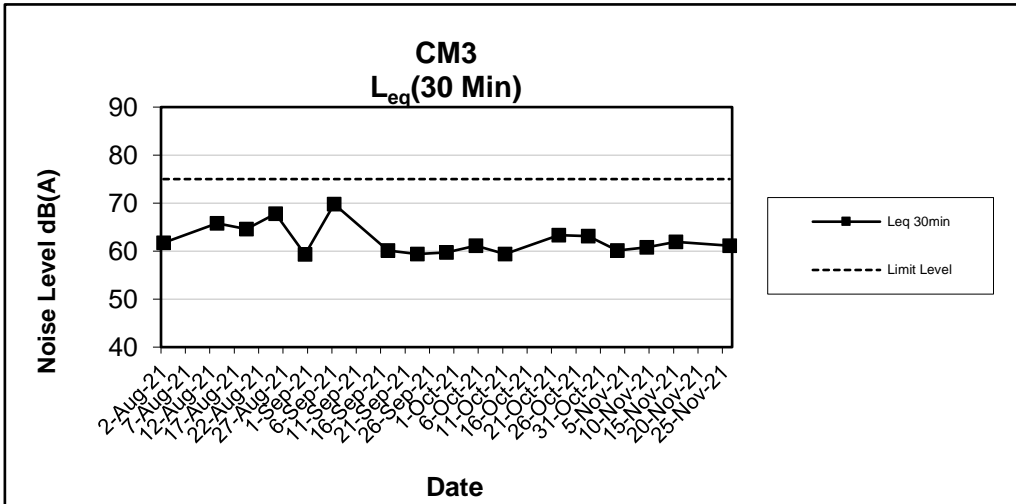
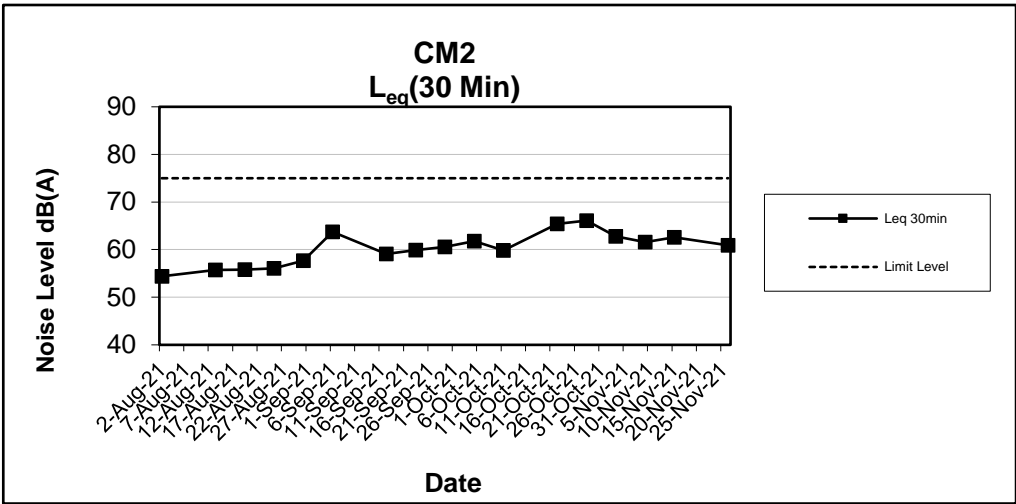
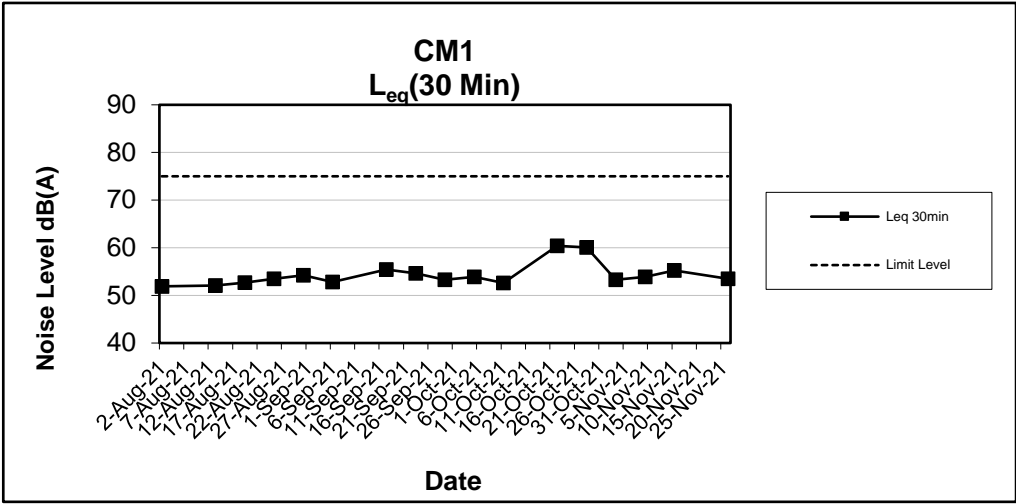
CM3 - Squatter house to the east of YLSTW

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)
3-Nov-21	11:28	60	64	55	0.2	Cloudy	75
9-Nov-21	10:03	61	65	55	0.5	Fine	75
15-Nov-21	11:29	62	67	55	0.3	Cloudy	75
26-Nov-21	11:27	61	65	55	0.2	Fine	75
	Max	62					
	Min	60					

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.



Water Quality Monitoring Results

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	2/11/2021	Mid-Flood	Fine	Moderate	5:33	0.9	M	0.45	1	0.065	24.8	7.03	7.03	8.65	8.62	26.35	26.36	36.7	36.9	2.92	2.93	11.0	10.9	23	22
M1	2/11/2021	Mid-Flood	Fine	Moderate	5:33	0.9	M	0.45	2			7.03	7.03	8.59	8.62	26.36	26.36	37.1	36.9	2.94	2.93	10.8	10.9	21	22
M2	2/11/2021	Mid-Flood	Fine	Moderate	5:53	1.1	M	0.55	1	0.042	175	7.03	7.03	8.15	8.15	26.36	26.35	41.4	41.7	3.62	3.63	11.1	11.2	11	12
M2	2/11/2021	Mid-Flood	Fine	Moderate	5:53	1.1	M	0.55	2			7.02	7.02	8.14	8.15	26.34	26.35	41.9	41.7	3.64	3.63	11.2	11.2	12	12
M3	2/11/2021	Mid-Flood	Fine	Calm	5:41	0.6	M	0.3	1	0.125	74	7.47	7.47	5.61	5.61	24.96	24.97	42.3	42.7	3.36	3.39	10.1	10.0	7	7
M3	2/11/2021	Mid-Flood	Fine	Calm	5:41	0.6	M	0.3	2			7.46	7.46	5.60	5.61	24.97	24.97	43.1	42.7	3.42	3.39	9.9	10.0	6	7
M1	2/11/2021	Mid-Ebb	Fine	Moderate	11:59	0.6	M	0.3	1	0.063	72	7.10	7.11	8.61	8.62	26.37	26.38	35.8	35.9	2.84	2.86	10.6	10.7	11	11
M1	2/11/2021	Mid-Ebb	Fine	Moderate	11:59	0.6	M	0.3	2			7.11	7.11	8.62	8.62	26.38	26.38	35.9	35.9	2.88	2.86	10.7	10.7	10	11
M2	2/11/2021	Mid-Ebb	Fine	Moderate	11:40	0.8	M	0.4	1	0.123	313	7.16	7.15	8.03	8.04	27.14	27.13	32.4	32.6	2.62	2.64	8.6	8.7	11	11
M2	2/11/2021	Mid-Ebb	Fine	Moderate	11:40	0.8	M	0.4	2			7.14	7.14	8.04	8.04	27.11	27.11	32.8	32.6	2.66	2.64	8.7	8.7	10	11
M3	2/11/2021	Mid-Ebb	Fine	Calm	11:43	0.4	M	0.2	1	0.177	257	7.20	7.20	6.85	6.86	25.49	25.50	54.9	54.6	4.28	4.25	14.6	14.3	15	15
M3	2/11/2021	Mid-Ebb	Fine	Calm	11:43	0.4	M	0.2	2			7.19	7.19	6.86	6.86	25.51	25.51	54.2	54.6	4.22	4.25	14.0	14.3	15	15

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	4/11/2021	Mid-Flood	Cloudy	Smooth	7:18	1.8	M	0.9	1	0.184	248	7.38	7.39	11.71	11.72	25.85	25.85	63.7	63.4	4.77	4.60	9.9	9.8	15	16
M1	4/11/2021	Mid-Flood	Cloudy	Smooth	7:18	1.8	M	0.9	2			7.39	7.47	11.73	11.16	25.84	25.64	63.1	70.3	4.42	5.29	4.60	9.8	12.6	16
M2	4/11/2021	Mid-Flood	Cloudy	Smooth	7:36	1	M	0.5	1	0.209	165	7.47	7.47	11.15	11.16	25.63	25.64	70.9	70.3	5.34	5.29	12.8	12.6	19	18
M2	4/11/2021	Mid-Flood	Cloudy	Smooth	7:36	1	M	0.5	2			7.47	7.25	11.16	7.14	25.65	26.74	69.6	58.5	5.24	4.43	5.24	12.5	13.3	17
M3	4/11/2021	Mid-Flood	Fine	Moderate	7:30	1.2	M	0.6	1	0.068	128	7.25	7.26	7.14	7.20	26.74	26.74	58.5	57.7	4.43	4.37	4.43	13.2	17	17
M3	4/11/2021	Mid-Flood	Fine	Moderate	7:30	1.2	M	0.6	2			7.26	7.26	7.26	7.26	26.74	26.74	56.8	57.7	4.31	4.37	4.31	13.1	13.2	16
M1	4/11/2021	Mid-Ebb	Cloudy	Smooth	13:36	2	M	1	1	0.252	320	7.22	7.23	9.38	9.38	26.61	26.62	55.9	56.2	4.22	4.25	19.5	19.5	20	19
M1	4/11/2021	Mid-Ebb	Cloudy	Smooth	13:36	2	M	1	2			7.23	7.23	9.38	9.38	26.62	26.62	56.5	56.2	4.27	4.25	19.4	19.5	18	19
M2	4/11/2021	Mid-Ebb	Cloudy	Smooth	13:18	1.2	M	0.6	1	0.239	287	7.27	7.27	9.27	9.27	26.73	26.73	54.5	54.4	4.13	4.12	17.4	17.6	20	20
M2	4/11/2021	Mid-Ebb	Cloudy	Smooth	13:18	1.2	M	0.6	2			7.26	7.26	9.26	9.27	26.72	26.73	54.3	54.4	4.11	4.12	17.8	17.6	20	20
M3	4/11/2021	Mid-Ebb	Fine	Moderate	13:10	0.9	M	0.45	1	0.042	246	7.24	7.24	7.36	7.37	26.94	26.97	58.9	58.9	4.45	4.45	12.2	12.2	19	19
M3	4/11/2021	Mid-Ebb	Fine	Moderate	13:10	0.9	M	0.45	2			7.23	7.23	7.38	7.37	26.99	26.97	58.8	58.9	4.44	4.45	4.44	12.3	12.2	18

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	6/11/2021	Mid-Flood	Fine	Moderate	9:08	0.9	M	0.45	1	0.053	190	7.14	7.15	8.25	8.25	26.89	26.85	39.2	39.0	3.14	3.11	36.2	36.1	42	42
M1	6/11/2021	Mid-Flood	Fine	Moderate	9:08	0.9	M	0.45	2			7.15		8.24		26.82		38.7		3.08		36.1		41	
M2	6/11/2021	Mid-Flood	Fine	Moderate	9:34	1.2	M	0.6	1	0.093	306	7.22	7.23	8.35	8.33	26.73	26.76	42.4	42.8	3.29	3.34	32.1	32.1	37	38
M2	6/11/2021	Mid-Flood	Fine	Moderate	9:34	1.2	M	0.6	2			7.24		8.31		26.79		43.1		3.38		32.1		39	
M3	6/11/2021	Mid-Flood	Fine	Smooth	9:00	1.3	M	0.65	1	0.065	128	7.08	7.10	8.28	8.27	26.63	26.45	47.9	49.6	3.82	3.87	26.4	26.8	38	37
M3	6/11/2021	Mid-Flood	Fine	Smooth	9:00	1.3	M	0.65	2			7.11		8.26		26.27		51.3		3.91		27.3		35	
M1	6/11/2021	Mid-Ebb	Fine	Moderate	15:07	0.7	M	0.35	1	0.035	220	7.17	7.17	7.14	7.16	26.92	26.92	45.2	45.3	3.44	3.46	26.0	25.9	49	48
M1	6/11/2021	Mid-Ebb	Fine	Moderate	15:07	0.7	M	0.35	2			7.16		7.18		26.91		45.4		3.47		25.9		47	
M2	6/11/2021	Mid-Ebb	Fine	Moderate	14:49	0.9	M	0.45	1	0.101	313	7.14	7.15	7.24	7.23	26.80	26.81	39.2	39.2	2.99	2.97	30.0	30.0	46	45
M2	6/11/2021	Mid-Ebb	Fine	Moderate	14:49	0.9	M	0.45	2			7.15		7.22		26.81		39.1		2.94		30.0		43	
M3	6/11/2021	Mid-Ebb	Fine	Smooth	14:50	0.8	M	0.4	1	0.056	245	7.28	7.35	5.55	5.51	27.59	27.51	69.8	70.5	5.39	5.41	27.8	27.4	42	42
M3	6/11/2021	Mid-Ebb	Fine	Smooth	14:50	0.8	M	0.4	2			7.42		5.46		27.43		71.1		5.43		27.0		41	

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	43.4	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	9/11/2021	Mid-Flood	Fine	Moderate	12:06	1.4	M	0.7	1	0.066	134	6.98	6.99	5.59	5.57	21.60	21.71	42.9	42.4	3.87	3.81	25.2	25.2	45	44
M1	9/11/2021	Mid-Flood	Fine	Moderate	12:06	1.4	M	0.7	2			6.99		5.54		21.81		41.8		3.74		25.2		43	
M2	9/11/2021	Mid-Flood	Fine	Moderate	12:25	1.1	M	0.55	1	0.121	325	7.03	7.04	5.74	5.73	21.60	21.59	45.7	45.7	4.09	4.08	25.7	25.5	44	45
M2	9/11/2021	Mid-Flood	Fine	Moderate	12:25	1.1	M	0.55	2			7.04		5.72		21.58		45.6		4.06		25.4		46	
M3	9/11/2021	Mid-Flood	Fine	Calm	12:38	0.4	M	0.2	1	0.202	81	7.47	7.47	2.91	2.91	20.83	20.83	38.9	38.4	3.46	3.42	14.9	14.8	13	13
M3	9/11/2021	Mid-Flood	Fine	Calm	12:38	0.4	M	0.2	2			7.46		2.91		20.82		37.8		3.37		14.7		12	
M1	9/11/2021	Mid-Ebb	Fine	Moderate	17:18	0.8	M	0.4	1	0.058	312	7.03	7.04	6.12	6.13	22.83	22.89	61.8	62.4	4.86	4.89	28.7	28.7	38	37
M1	9/11/2021	Mid-Ebb	Fine	Moderate	17:18	0.8	M	0.4	2			7.04		6.14		22.94		62.9		4.91		28.6		36	
M2	9/11/2021	Mid-Ebb	Fine	Moderate	16:58	0.9	M	0.45	1	0.036	177	6.87	6.85	7.31	7.32	21.60	21.59	58.7	58.9	4.66	4.69	25.6	25.5	46	44
M2	9/11/2021	Mid-Ebb	Fine	Moderate	16:58	0.9	M	0.45	2			6.82		7.32		21.58		59.1		4.72		25.4		41	
M3	9/11/2021	Mid-Ebb	Fine	Calm	17:03	0.6	M	0.3	1	0.13	273	7.20	7.20	2.07	2.07	21.69	21.70	46.2	46.5	3.91	3.93	20.5	20.6	14	15
M3	9/11/2021	Mid-Ebb	Fine	Calm	17:03	0.6	M	0.3	2			7.19		2.06		21.71		46.8		3.95		20.8		15	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	11/11/2021	Mid-Flood	Fine	Moderate	18:57	1.4	M	0.7	1	0.073	313	7.29	7.28	5.35	5.34	21.22	21.22	40.0	39.9	3.44	3.43	23.4	23.4	33	32
M1	11/11/2021	Mid-Flood	Fine	Moderate	18:57	1.4	M	0.7	2			7.26		5.33		21.22		39.7		3.41		23.4		31	
M2	11/11/2021	Mid-Flood	Fine	Moderate	18:43	1.3	M	0.65	1	0.088	165	7.33	7.34	5.37	5.37	21.23	21.23	46.5	46.5	4.00	4.00	23.9	23.9	39	39
M2	11/11/2021	Mid-Flood	Fine	Moderate	18:43	1.3	M	0.65	2			7.34		5.36		21.23		46.4		3.99		23.9		39	
M3	11/11/2021	Mid-Flood	Fine	Calm	18:43	0.6	M	0.3	1	0.187	91	7.19	7.20	5.94	5.94	22.61	22.62	54.8	55.1	4.64	4.67	25.1	25.0	36	36
M3	11/11/2021	Mid-Flood	Fine	Calm	18:43	0.6	M	0.3	2			7.20		5.93		22.62		55.4		4.70		24.9		36	
M1	11/11/2021	Mid-Ebb	Fine	Moderate	6:24	0.9	M	0.45	1	0.07	123	7.14	7.18	5.88	5.90	21.39	21.39	39.6	39.4	3.39	3.38	30.6	30.6	39	38
M1	11/11/2021	Mid-Ebb	Fine	Moderate	6:24	0.9	M	0.45	2			7.22		5.91		21.39		39.2		3.36		30.5		37	
M2	11/11/2021	Mid-Ebb	Fine	Moderate	6:41	1.2	M	0.6	1	0.053	70	7.20	7.21	5.68	5.69	22.13	22.13	50.5	50.5	4.26	4.25	34.3	34.2	34	34
M2	11/11/2021	Mid-Ebb	Fine	Moderate	6:41	1.2	M	0.6	2			7.21		5.69		22.13		50.4		4.23		34.1		34	
M3	11/11/2021	Mid-Ebb	Fine	Calm	6:32	0.4	M	0.2	1	0.26	245	6.96	6.96	4.87	4.87	20.93	20.94	43.7	43.0	3.65	3.59	34.1	33.9	44	43
M3	11/11/2021	Mid-Ebb	Fine	Calm	6:32	0.4	M	0.2	2			6.95		4.86		20.94		42.2		3.53		33.6		42	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	13/11/2021	Mid-Flood	Fine	Smooth	16:59	2	M	1	1	0.217	223	7.25	7.25	5.93	5.93	24.06	24.06	38.4	38.8	3.20	3.23	20.8	20.7	28	27
M1	13/11/2021	Mid-Flood	Fine	Smooth	16:59	2	M	1	2			7.24		5.92		24.05		39.1		3.25		20.6		25	
M2	13/11/2021	Mid-Flood	Fine	Smooth	16:40	1.2	M	0.6	1	0.197	241	7.17	7.16	5.76	5.75	23.43	23.44	36.5	36.3	3.07	3.06	24.2	24.3	33	32
M2	13/11/2021	Mid-Flood	Fine	Smooth	16:40	1.2	M	0.6	2			7.15		5.74		23.45		36.1		3.04		24.3		30	
M3	13/11/2021	Mid-Flood	Fine	Smooth	16:41	0.4	M	0.2	1	0.191	73	7.09	7.08	5.60	5.60	23.30	23.30	42.4	42.0	3.58	3.54	27.3	27.6	27	29
M3	13/11/2021	Mid-Flood	Fine	Smooth	16:41	0.4	M	0.2	2			7.07		5.59		23.29		41.5		3.50		27.9		30	
M1	13/11/2021	Mid-Ebb	Fine	Smooth	8:57	2.2	M	1.1	1	0.173	294	6.91	6.92	5.01	5.01	22.31	22.31	37.3	37.2	3.09	3.08	30.1	30.1	47	47
M1	13/11/2021	Mid-Ebb	Fine	Smooth	8:57	2.2	M	1.1	2			6.92		5.01		22.30		37.0		3.06		30.0		46	
M2	13/11/2021	Mid-Ebb	Fine	Smooth	9:17	1.2	M	0.6	1	0.206	271	7.12	7.12	4.98	4.97	22.54	22.53	34.3	34.1	2.83	2.81	26.1	26.0	40	39
M2	13/11/2021	Mid-Ebb	Fine	Smooth	9:17	1.2	M	0.6	2			7.11		4.96		22.52		33.8		2.79		25.9		37	
M3	13/11/2021	Mid-Ebb	Fine	Smooth	8:57	0.4	M	0.2	1	0.176	238	7.32	7.32	4.68	4.68	22.06	22.07	39.7	40.3	3.29	3.33	23.9	24.0	29	30
M3	13/11/2021	Mid-Ebb	Fine	Smooth	8:57	0.4	M	0.2	2			7.31		4.67		22.08		40.8		3.37		24.0		30	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	16/11/2021	Mid-Flood	Fine	Calm	6:02	2.2	M	1.1	1	0.225	268	7.37	7.37	6.55	6.55	21.09	21.10	48.6	48.4	3.93	3.91	15.8	15.6	24	24
M1	16/11/2021	Mid-Flood	Fine	Calm	6:02	2.2	M	1.1	2			7.36		6.54		21.10		48.1		3.89		15.3		24	
M2	16/11/2021	Mid-Flood	Fine	Calm	6:20	1.2	M	0.6	1	0.235	275	7.30	7.31	6.33	6.34	21.24	21.25	46.2	46.5	3.81	3.83	18.4	18.6	23	23
M2	16/11/2021	Mid-Flood	Fine	Calm	6:20	1.2	M	0.6	2			7.31		6.35		21.25		46.8		3.85		18.8		23	
M3	16/11/2021	Mid-Flood	Fine	Calm	5:59	0.6	M	0.3	1	0.207	95	7.22	7.21	5.60	5.60	20.97	20.97	43.3	43.2	3.57	3.57	17.9	17.7	23	24
M3	16/11/2021	Mid-Flood	Fine	Calm	5:59	0.6	M	0.3	2			7.19		5.60		20.96		43.1		3.56		17.5		25	
M1	16/11/2021	Mid-Ebb	Fine	Calm	12:08	2	M	1	1	0.217	315	7.26	7.27	5.86	5.85	24.05	24.06	44.5	44.3	3.65	3.64	23.7	23.6	13	14
M1	16/11/2021	Mid-Ebb	Fine	Calm	12:08	2	M	1	2			7.27		5.84		24.06		44.1		3.62		23.5		15	
M2	16/11/2021	Mid-Ebb	Fine	Calm	11:52	1	M	0.5	1	0.193	235	7.16	7.17	5.33	5.34	24.13	24.13	39.1	39.5	3.21	3.25	17.1	17.1	18	20
M2	16/11/2021	Mid-Ebb	Fine	Calm	11:52	1	M	0.5	2			7.17		5.34		24.13		39.9		3.28		17.1		21	
M3	16/11/2021	Mid-Ebb	Fine	Calm	11:46	0.4	M	0.2	1	0.18	250	7.11	7.11	5.07	5.06	23.58	23.58	41.2	41.0	3.37	3.36	25.8	25.1	28	27
M3	16/11/2021	Mid-Ebb	Fine	Calm	11:46	0.4	M	0.2	2			7.10		5.05		23.57		40.8		3.35		24.5		26	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	18/11/2021	Mid-Flood	Fine	Smooth	7:28	1.2	M	0.6	1	0.122	222	7.09	7.09	8.70	8.70	23.90	23.89	55.8	55.7	4.49	4.48	28.2	28.2	33	35
M1	18/11/2021	Mid-Flood	Fine	Smooth	7:28	1.2	M	0.6	2			7.09	7.09	8.70	8.70	23.89	23.89	55.6	55.6	4.46	4.46	28.3	28.2	36	
M2	18/11/2021	Mid-Flood	Fine	Smooth	7:48	1.3	M	0.65	1	0.137	239	7.23	7.23	8.03	8.03	23.95	23.95	47.0	46.9	3.78	3.78	23.0	23.0	25	25
M2	18/11/2021	Mid-Flood	Fine	Smooth	7:48	1.3	M	0.65	2			7.23	7.23	8.03	8.03	23.95	23.95	46.8	46.8	3.77	3.77	23.0	23.0	25	
M3	18/11/2021	Mid-Flood	Cloudy	Calm	7:43	0.6	M	0.3	1	0.237	85	7.34	7.33	8.16	8.16	23.12	23.11	44.9	44.6	3.65	3.65	17.4	17.4	29	32
M3	18/11/2021	Mid-Flood	Cloudy	Calm	7:43	0.6	M	0.3	2			7.32	7.33	8.16	8.16	23.10	23.11	44.3	44.6	3.60	3.63	17.3	17.4	34	
M1	18/11/2021	Mid-Ebb	Fine	Smooth	13:25	1	M	0.5	1	0.167	181	7.21	7.21	7.94	7.94	25.34	25.35	49.6	49.6	4.00	4.00	30.1	30.1	31	33
M1	18/11/2021	Mid-Ebb	Fine	Smooth	13:25	1	M	0.5	2			7.21	7.21	7.94	7.94	25.35	25.35	49.5	49.6	3.99	4.00	30.1	30.1	34	
M2	18/11/2021	Mid-Ebb	Fine	Smooth	13:05	1.1	M	0.55	1	0.145	149	7.26	7.26	7.72	7.72	25.25	25.25	47.7	47.6	3.83	3.82	20.7	20.7	27	28
M2	18/11/2021	Mid-Ebb	Fine	Smooth	13:05	1.1	M	0.55	2			7.26	7.26	7.72	7.72	25.26	25.25	47.5	47.6	3.81	3.82	20.7	20.7	28	
M3	18/11/2021	Mid-Ebb	Cloudy	Calm	12:59	0.4	M	0.2	1	0.212	263	7.18	7.17	6.86	6.85	23.96	23.96	48.6	48.4	3.91	3.90	22.3	22.3	25	25
M3	18/11/2021	Mid-Ebb	Cloudy	Calm	12:59	0.4	M	0.2	2			7.16	7.17	6.84	6.85	23.95	23.96	48.2	48.4	3.88	3.88	22.2	22.2	24	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	20/11/2021	Mid-Flood	Fine	Smooth	8:58	2	M	1	1	0.276	240	7.23	7.22	8.86	8.87	23.96	23.96	59.3	59.1	4.75	4.73	25.7	26.2	33	33
M1	20/11/2021	Mid-Flood	Fine	Smooth	8:58	2	M	1	2			7.21		8.88		23.95		58.8		4.71		26.7		32	
M2	20/11/2021	Mid-Flood	Fine	Smooth	9:13	1.2	M	0.6	1	0.249	257	7.31	7.31	8.46	8.46	24.10	24.11	50.7	50.4	4.07	4.04	31.6	31.1	38	38
M2	20/11/2021	Mid-Flood	Fine	Smooth	9:13	1.2	M	0.6	2			7.30		8.46		24.12		50.1		4.01		30.7		37	
M3	20/11/2021	Mid-Flood	Fine	Calm	9:02	0.4	M	0.2	1	0.271	95	7.29	7.29	7.79	7.79	24.02	24.03	49.2	49.5	3.81	3.83	37.5	37.8	32	32
M3	20/11/2021	Mid-Flood	Fine	Calm	9:02	0.4	M	0.2	2			7.28		7.78		24.03		49.7		3.84		38.1		31	
M1	20/11/2021	Mid-Ebb	Fine	Smooth	14:24	2.2	M	1.1	1	0.245	294	7.39	7.39	8.33	8.34	25.29	25.28	44.8	44.7	3.62	3.61	25.0	25.1	32	32
M1	20/11/2021	Mid-Ebb	Fine	Smooth	14:24	2.2	M	1.1	2			7.39		8.34		25.27		44.5		3.60		25.2		32	
M2	20/11/2021	Mid-Ebb	Fine	Smooth	14:05	1.2	M	0.6	1	0.23	173	7.52	7.52	8.27	8.26	25.12	25.12	46.9	47.2	3.78	3.81	20.2	20.6	26	27
M2	20/11/2021	Mid-Ebb	Fine	Smooth	14:05	1.2	M	0.6	2			7.51		8.25		25.11		47.5		3.83		20.9		27	
M3	20/11/2021	Mid-Ebb	Fine	Calm	14:09	0.6	M	0.3	1	0.221	275	7.40	7.41	7.31	7.31	24.94	24.95	43.8	44.0	3.45	3.46	33.5	33.5	36	38
M3	20/11/2021	Mid-Ebb	Fine	Calm	14:09	0.6	M	0.3	2			7.42		7.30		24.96		44.1		3.47		33.6		40	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	23/11/2021	Mid-Flood	Cloudy	Smooth	11:03	1.2	M	0.6	1	0.126	230	6.88	6.88	6.17	6.17	19.82	19.83	28.9	28.8	2.55	2.54	28.6	28.5	36	38
M1	23/11/2021	Mid-Flood	Cloudy	Smooth	11:03	1.2	M	0.6	2			6.88		6.17		19.84		19.83		28.7		28.5		2.52	
M2	23/11/2021	Mid-Flood	Cloudy	Smooth	11:28	1.3	M	0.65	1	0.134	238	7.15	7.15	5.79	5.79	19.74	19.74	33.2	33.1	2.94	2.93	26.1	26.0	33	35
M2	23/11/2021	Mid-Flood	Cloudy	Smooth	11:28	1.3	M	0.65	2			7.15		5.79		19.74		19.74		32.9		26.0		2.91	
M3	23/11/2021	Mid-Flood	Cloudy	Smooth	11:01	0.9	M	0.45	1	0.089	79	7.10	7.10	5.79	5.79	19.60	19.61	38.7	38.7	3.47	3.47	27.2	27.2	39	39
M3	23/11/2021	Mid-Flood	Cloudy	Smooth	11:01	0.9	M	0.45	2			7.10		5.79		19.61		19.61		38.6		38.7		3.46	
M1	23/11/2021	Mid-Ebb	Cloudy	Smooth	16:13	1	M	0.5	1	0.132	200	7.36	7.36	5.87	5.87	19.92	19.93	44.1	44.1	3.93	3.93	27.9	27.9	27	30
M1	23/11/2021	Mid-Ebb	Cloudy	Smooth	16:13	1	M	0.5	2			7.36		5.87		19.93		19.93		44.0		44.1		3.92	
M2	23/11/2021	Mid-Ebb	Cloudy	Smooth	15:48	1.1	M	0.55	1	0.101	144	7.16	7.16	5.23	5.23	19.91	19.92	42.5	42.4	3.77	3.76	28.0	28.0	38	41
M2	23/11/2021	Mid-Ebb	Cloudy	Smooth	15:48	1.1	M	0.55	2			7.16		5.23		19.92		19.92		42.3		42.4		3.75	
M3	23/11/2021	Mid-Ebb	Cloudy	Smooth	15:47	0.7	M	0.35	1	0.08	249	7.20	7.20	5.55	5.55	20.11	20.11	39.3	39.3	3.52	3.52	24.5	24.5	32	32
M3	23/11/2021	Mid-Ebb	Cloudy	Smooth	15:47	0.7	M	0.35	2			7.20		5.55		20.11		20.11		39.2		39.3		3.51	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	25/11/2021	Mid-Flood	Fine	Smooth	12:43	1.1	M	0.55	1	0.093	230	6.87	6.87	6.85	6.85	19.64	19.64	34.8	34.7	3.09	3.08	24.2	24.2	41	43
M1	25/11/2021	Mid-Flood	Fine	Smooth	12:43	1.1	M	0.55	2			6.87		6.85		19.65		34.6		3.07		24.3		45	
M2	25/11/2021	Mid-Flood	Fine	Smooth	12:58	1.1	M	0.55	1	0.108	238	7.06	7.06	6.37	6.37	20.34	20.34	32.3	32.2	2.82	2.81	18.9	18.9	27	28
M2	25/11/2021	Mid-Flood	Fine	Smooth	12:58	1.1	M	0.55	2			7.06		6.37		20.35		32.1		2.80		18.9		28	
M3	25/11/2021	Mid-Flood	Fine	Smooth	12:58	1	M	0.5	1	0.062	91	7.35	7.35	4.67	4.67	21.22	21.23	40.6	40.5	3.68	3.67	29.6	29.6	17	17
M3	25/11/2021	Mid-Flood	Fine	Smooth	12:58	1	M	0.5	2			7.35		4.67		21.23		40.4		3.66		29.6		16	
M1	25/11/2021	Mid-Ebb	Fine	Smooth	17:36	0.8	M	0.4	1	0.123	196	7.18	7.18	5.27	5.27	21.64	21.64	35.8	35.7	3.12	3.12	16.9	16.9	35	36
M1	25/11/2021	Mid-Ebb	Fine	Smooth	17:36	0.8	M	0.4	2			7.18		5.27		21.64		35.6		3.11		16.9		37	
M2	25/11/2021	Mid-Ebb	Fine	Smooth	17:16	0.7	M	0.35	1	0.078	124	7.12	7.12	5.35	5.35	21.31	21.31	34.0	34.4	2.98	2.98	18.3	18.3	37	36
M2	25/11/2021	Mid-Ebb	Fine	Smooth	17:16	0.7	M	0.35	2			7.12		5.35		21.31		34.8		2.97		18.3		34	
M3	25/11/2021	Mid-Ebb	Fine	Smooth	17:10	0.9	M	0.45	1	0.076	251	7.45	7.45	3.85	3.85	20.83	20.83	38.6	38.6	3.47	3.47	36.0	36.0	11	12
M3	25/11/2021	Mid-Ebb	Fine	Smooth	17:10	0.9	M	0.45	2			7.45		3.85		20.83		38.5		3.46		36.0		12	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	27/11/2021	Mid-Flood	Fine	Smooth	15:04	0.8	M	0.4	1	0.109	224	7.28	7.28	6.96	6.96	21.95	21.95	40.9	40.9	3.46	3.46	16.8	16.8	22	23
M1	27/11/2021	Mid-Flood	Fine	Smooth	15:04	0.8	M	0.4	2			7.28		6.96		21.96		40.8		3.45		16.8		23	
M2	27/11/2021	Mid-Flood	Fine	Smooth	14:47	1	M	0.5	1	0.13	229	7.22	7.22	7.16	7.16	21.57	21.58	35.3	35.2	2.98	2.98	19.3	19.3	19	18
M2	27/11/2021	Mid-Flood	Fine	Smooth	14:47	1	M	0.5	2			7.22		7.16		21.58		35.1		2.97		19.3		17	
M3	27/11/2021	Mid-Flood	Fine	Smooth	14:45	1.1	M	0.55	1	0.077	89	7.61	7.61	3.78	3.78	22.62	22.62	50.7	50.6	4.36	4.35	23.3	23.3	19	19
M3	27/11/2021	Mid-Flood	Fine	Smooth	14:45	1.1	M	0.55	2			7.61		3.78		22.62		50.5		4.34		23.3		19	
M1	27/11/2021	Mid-Ebb	Fine	Smooth	6:23	0.6	M	0.3	1	0.093	200	6.99	6.99	5.07	5.07	18.96	18.96	41.2	41.1	3.40	3.39	23.2	23.2	29	31
M1	27/11/2021	Mid-Ebb	Fine	Smooth	6:23	0.6	M	0.3	2			6.99		5.07		18.97		41.0		3.38		23.2		32	
M2	27/11/2021	Mid-Ebb	Fine	Smooth	6:41	0.8	M	0.4	1	0.107	115	7.29	7.29	5.46	5.46	19.21	19.22	42.1	42.0	3.58	3.57	18.1	18.1	19	19
M2	27/11/2021	Mid-Ebb	Fine	Smooth	6:41	0.8	M	0.4	2			7.29		5.46		19.22		41.9		3.56		18.1		19	
M3	27/11/2021	Mid-Ebb	Fine	Smooth	6:21	0.8	M	0.4	1	0.059	260	7.55	7.55	0.75	0.75	18.08	18.09	48.0	47.9	4.17	4.16	22.3	22.3	14	15
M3	27/11/2021	Mid-Ebb	Fine	Smooth	6:21	0.8	M	0.4	2			7.55		0.75		18.09		47.7		4.15		22.3		16	

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	74.3	78.0	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

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	30/11/2021	Mid-Flood	Fine	Moderate	17:06	1.6	M	0.8	1	0.067	54	7.15	7.15	10.09	10.09	21.65	21.65	37.5	37.7	3.73	3.75	23.1	23.2	37	35
M1	30/11/2021	Mid-Flood	Fine	Moderate	17:06	1.6	M	0.8	2			7.14		10.08		21.65		37.9		3.76		23.3		33	
M2	30/11/2021	Mid-Flood	Fine	Moderate	16:47	1.4	M	0.7	1	0.114	72	7.19	7.19	10.15	10.16	21.40	21.41	40.9	40.9	3.97	3.97	18.1	18.1	15	17
M2	30/11/2021	Mid-Flood	Fine	Moderate	16:47	1.4	M	0.7	2			7.18		10.17		21.41		40.8		3.96		18.1		19	
M3	30/11/2021	Mid-Flood	Fine	Calm	16:45	0.4	M	0.2	1	0.207	85	7.36	7.36	9.27	9.27	24.74	24.75	48.3	48.0	3.74	3.72	31.0	31.5	25	25
M3	30/11/2021	Mid-Flood	Fine	Calm	16:45	0.4	M	0.2	2			7.35		9.27		24.75		47.6		3.69		32.0		25	
M1	30/11/2021	Mid-Ebb	Fine	Moderate	10:13	0.8	M	0.4	1	0.042	126	6.83	6.86	9.66	9.64	23.62	23.62	40.7	41.0	3.91	3.94	23.5	23.5	43	40
M1	30/11/2021	Mid-Ebb	Fine	Moderate	10:13	0.8	M	0.4	2			6.89		9.61		23.62		41.2		3.96		23.5		36	
M2	30/11/2021	Mid-Ebb	Fine	Moderate	10:36	1.1	M	0.55	1	0.058	167	7.02	7.03	9.80	9.77	23.11	23.11	38.2	38.3	3.64	3.65	21.0	21.0	21	20
M2	30/11/2021	Mid-Ebb	Fine	Moderate	10:36	1.1	M	0.55	2			7.03		9.74		23.12		38.3		3.66		21.0		19	
M3	30/11/2021	Mid-Ebb	Fine	Calm	10:16	0.4	M	0.2	1	0.237	265	7.08	7.08	7.64	7.64	23.60	23.61	42.6	42.9	3.37	3.39	23.6	24.2	38	37
M3	30/11/2021	Mid-Ebb	Fine	Calm	10:16	0.4	M	0.2	2			7.07		7.63		23.62		43.1		3.41		24.8		36	

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.

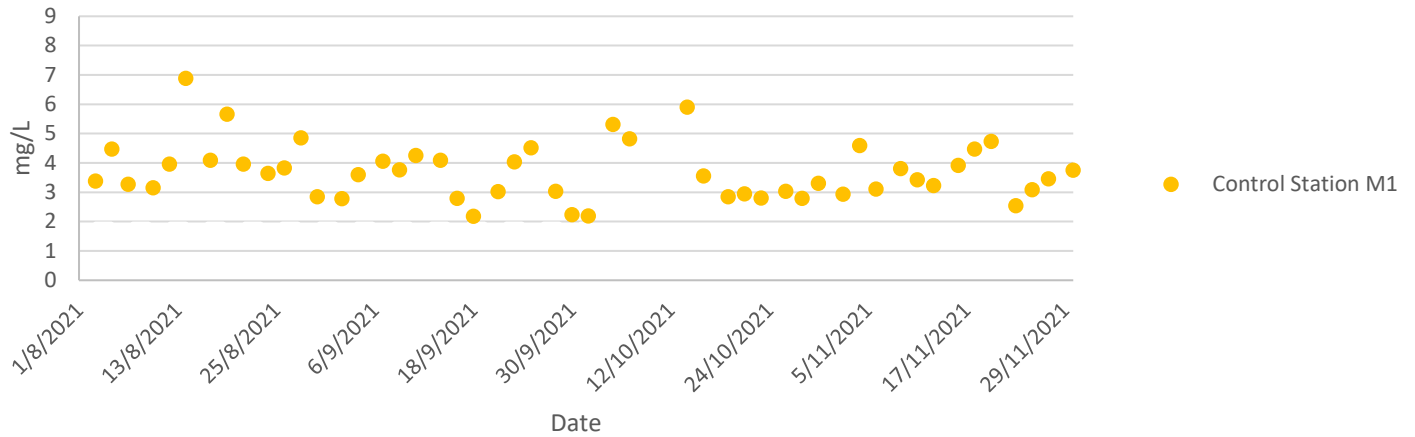
For Flood Tide

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	74.3	78.0	104	167

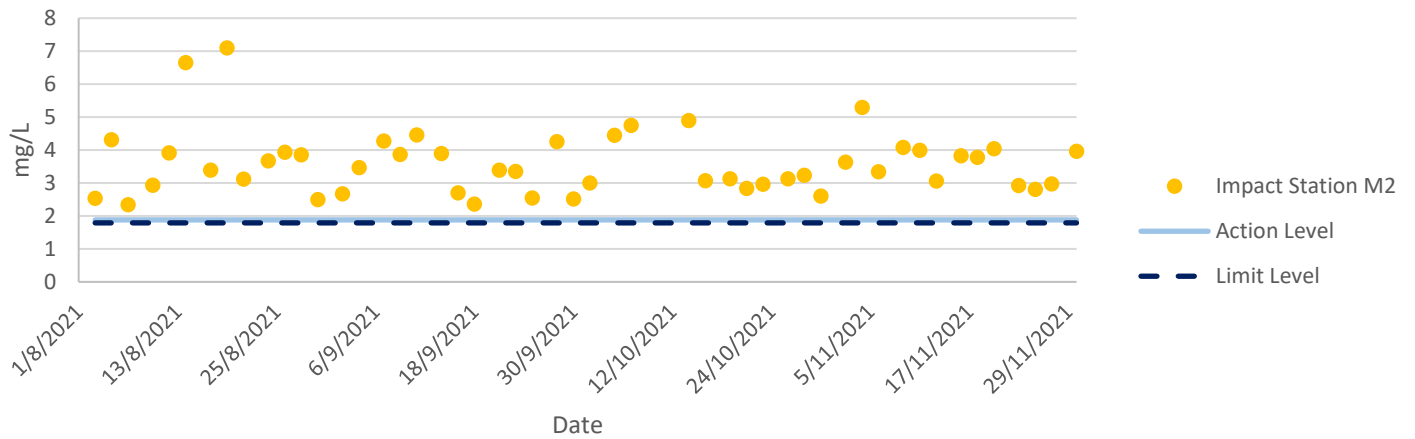
For Ebb Tide

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

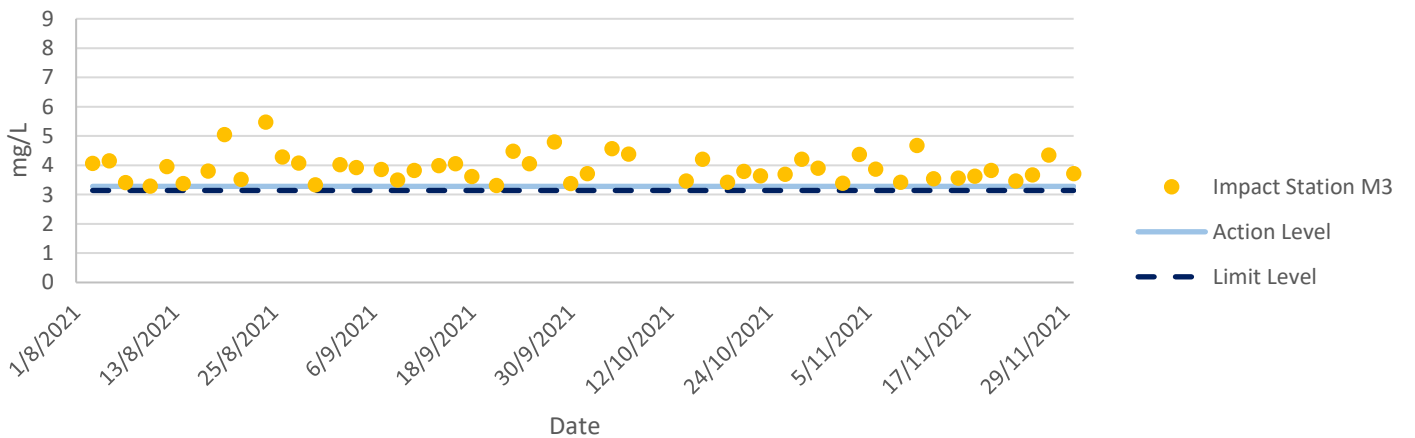
Dissolved Oxygen at Mid-Flood Tide



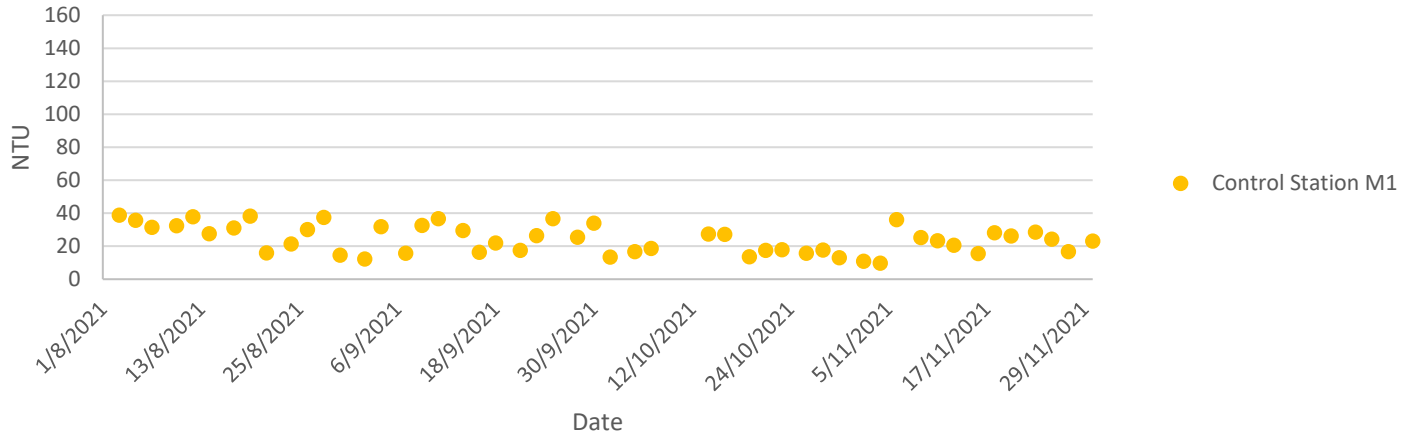
Dissolved Oxygen at Mid-Flood Tide



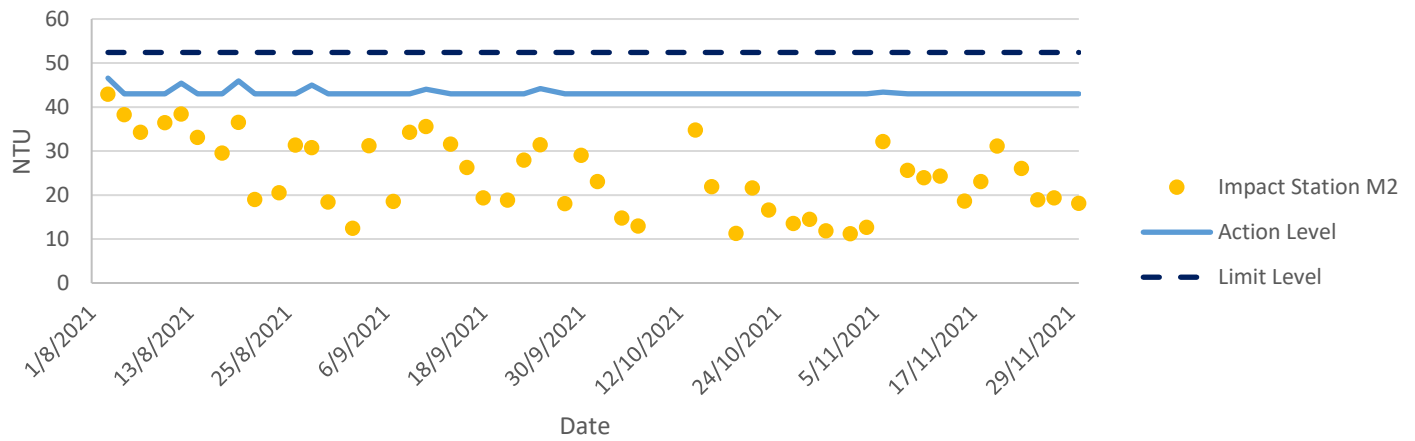
Dissolved Oxygen at Mid-Flood Tide



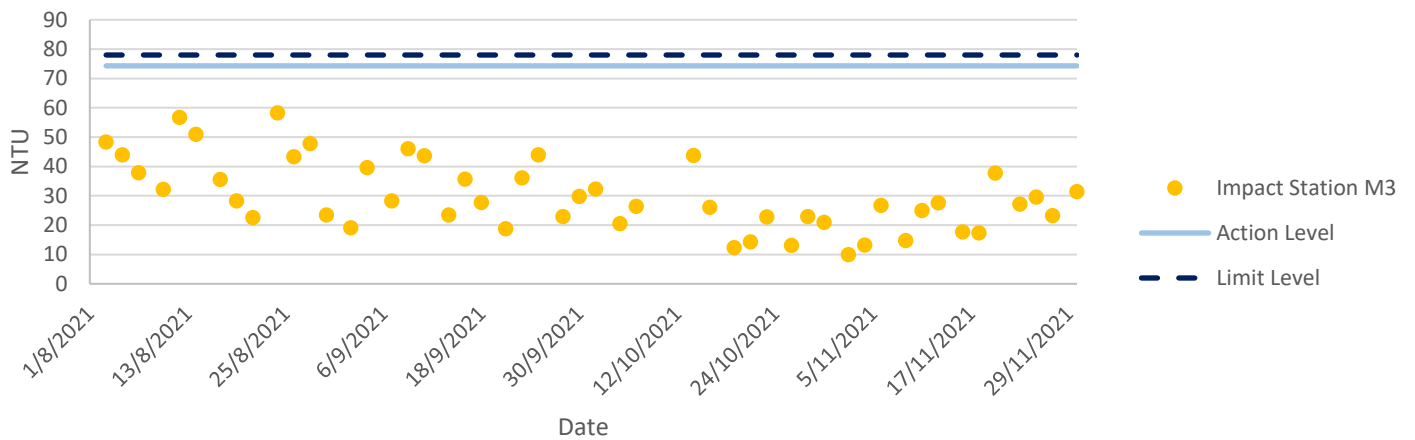
Turbidity at Mid-Flood Tide



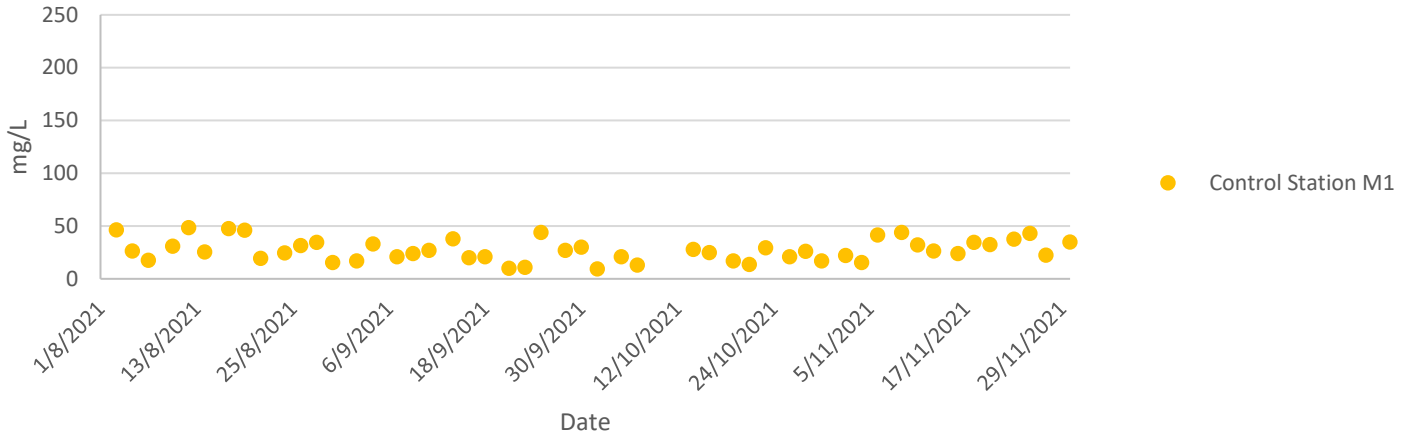
Turbidity at Mid-Flood Tide



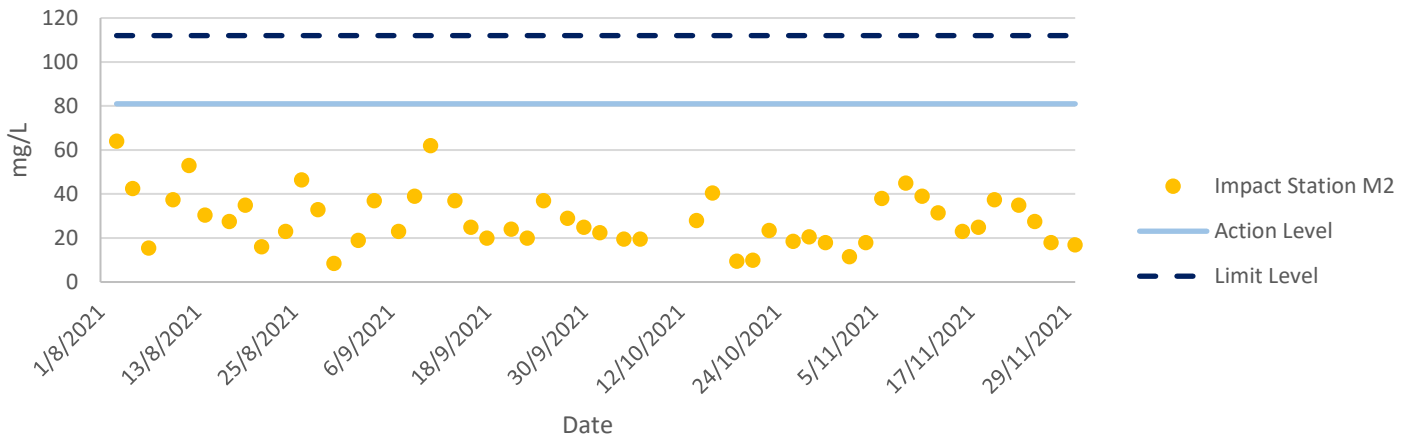
Turbidity at Mid-Flood Tide



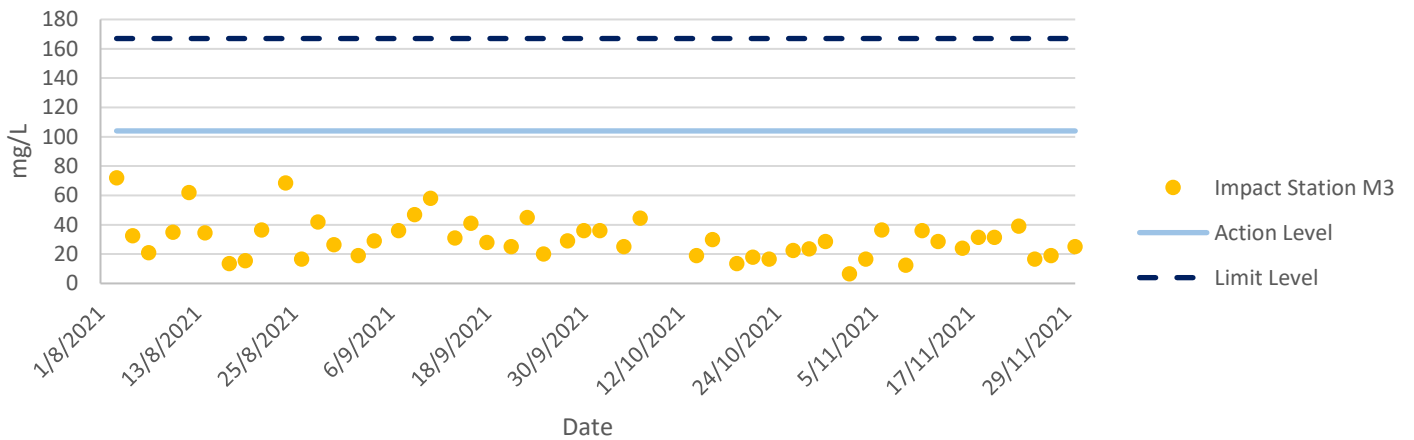
Total Suspended Solids at Mid-Flood Tide



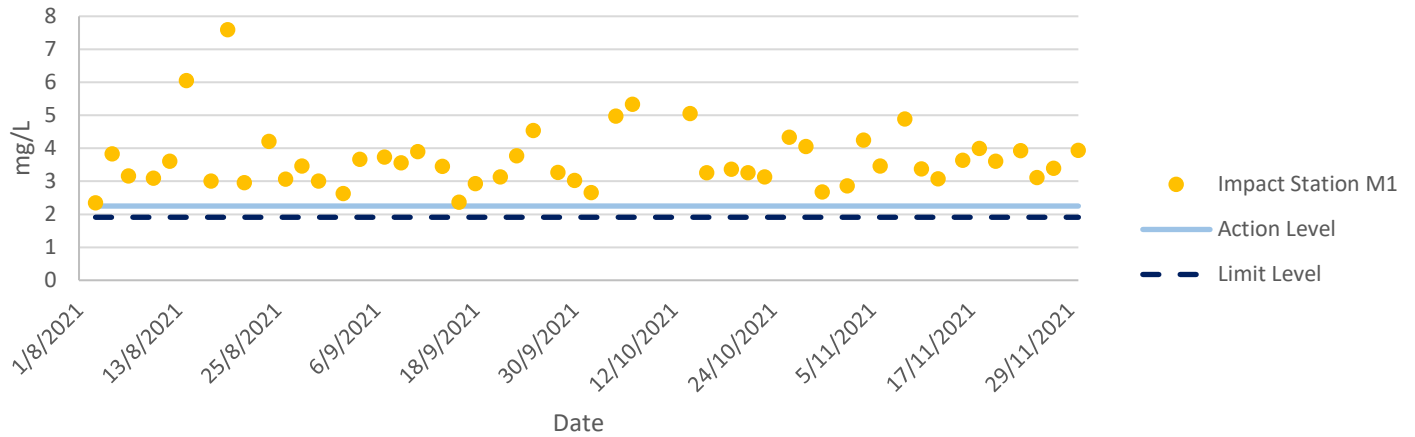
Total Suspended Solids at Mid-Flood Tide



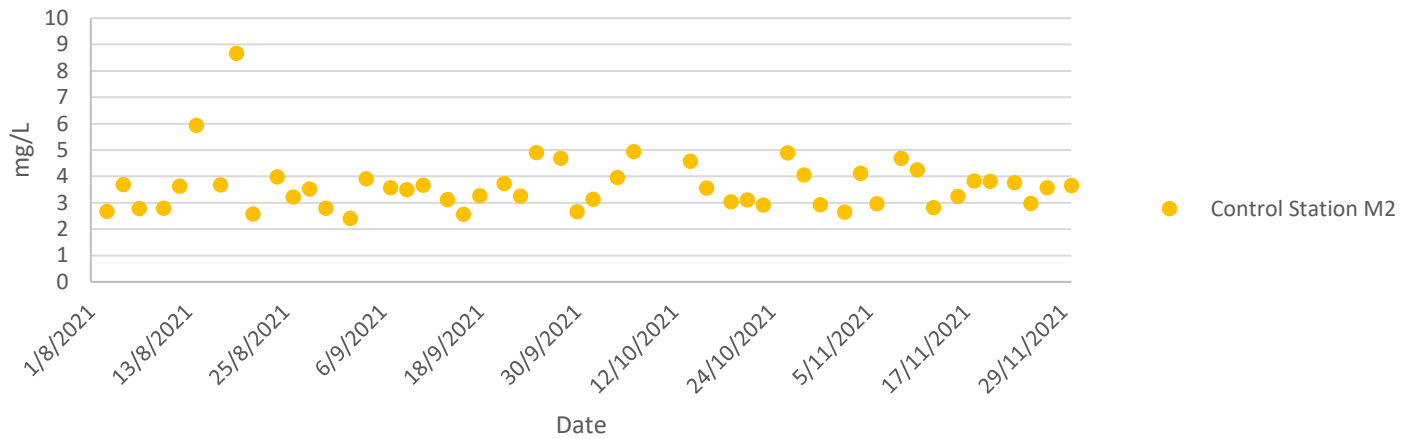
Total Suspended Solids at Mid-Flood Tide



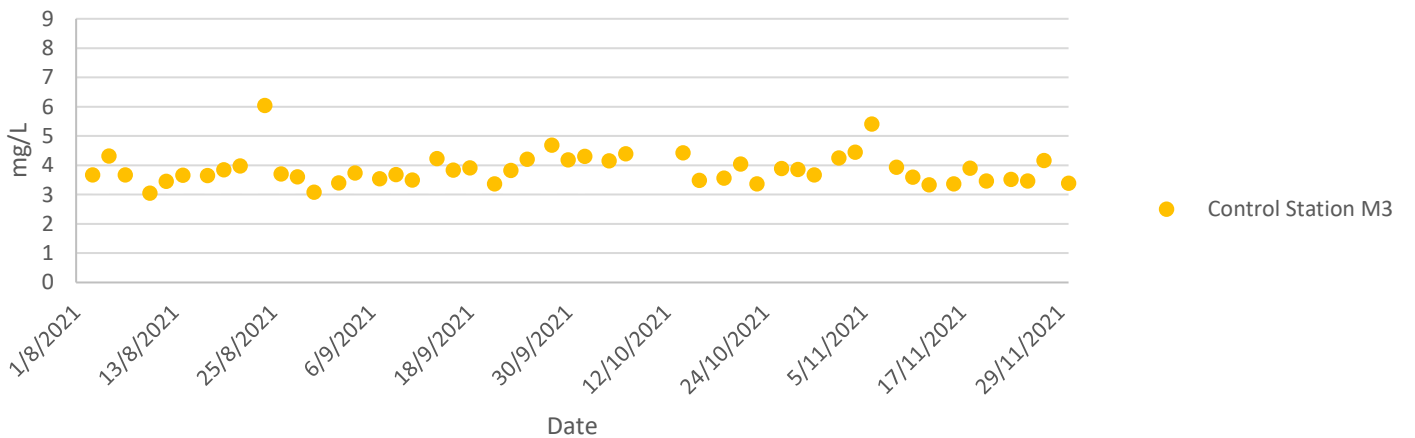
Dissolved Oxygen at Mid-Ebb Tide



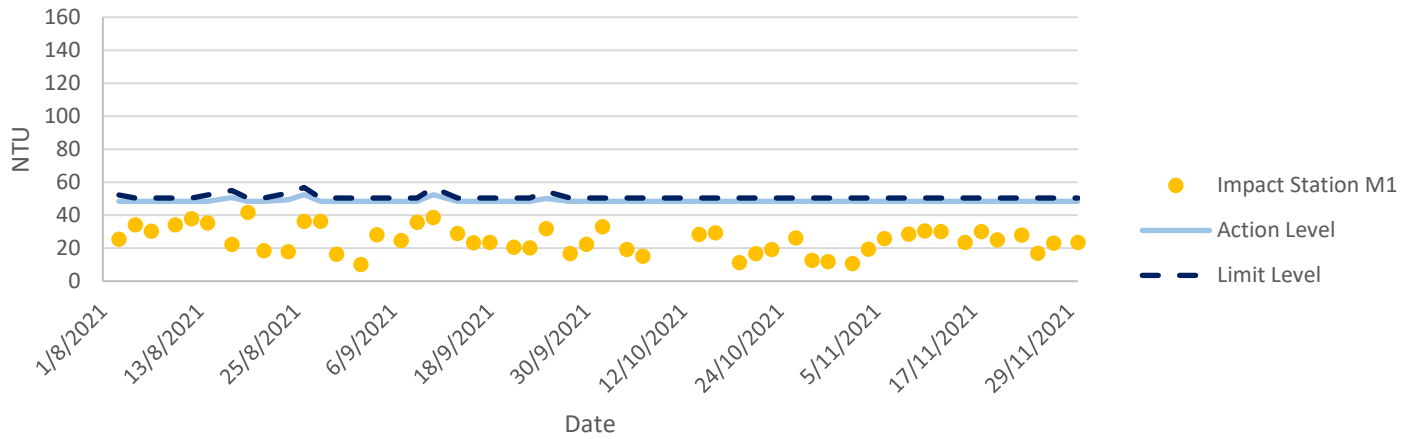
Dissolved Oxygen at Mid-Ebb Tide



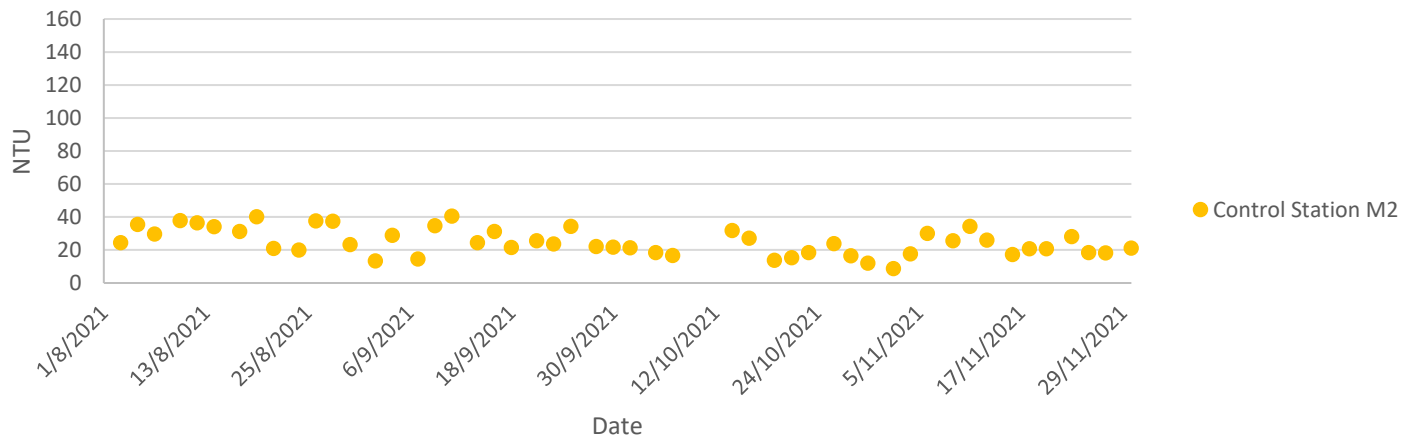
Dissolved Oxygen at Mid-Ebb Tide



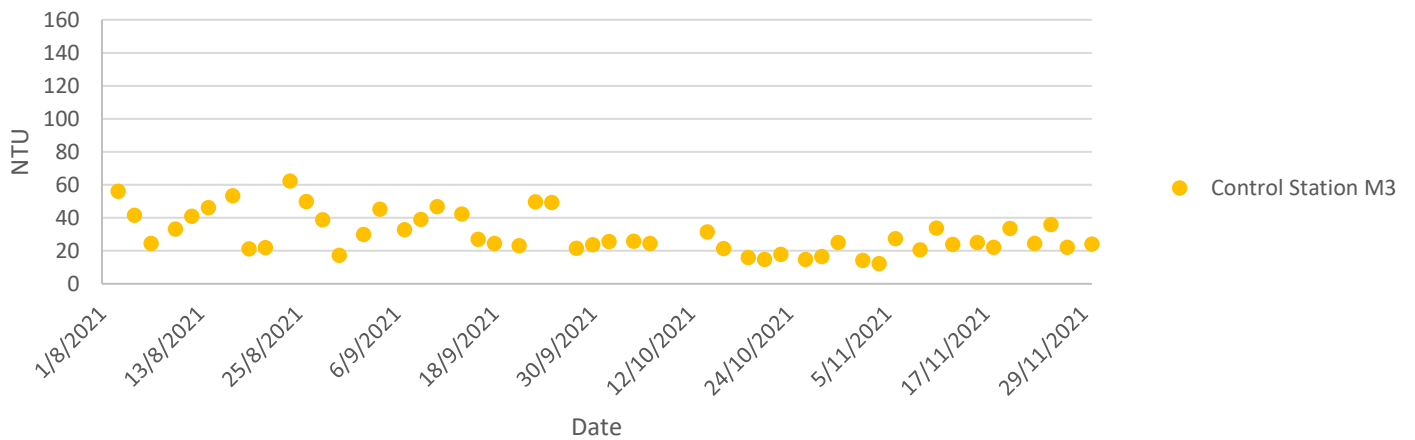
Turbidity at Mid-Ebb Tide

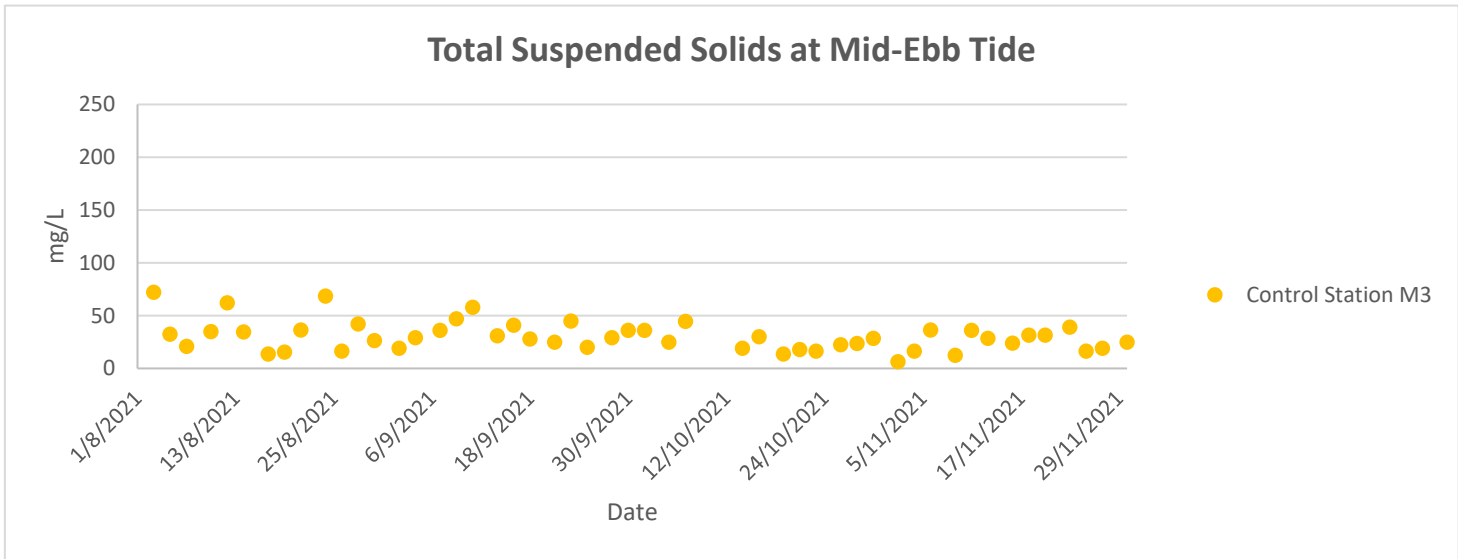
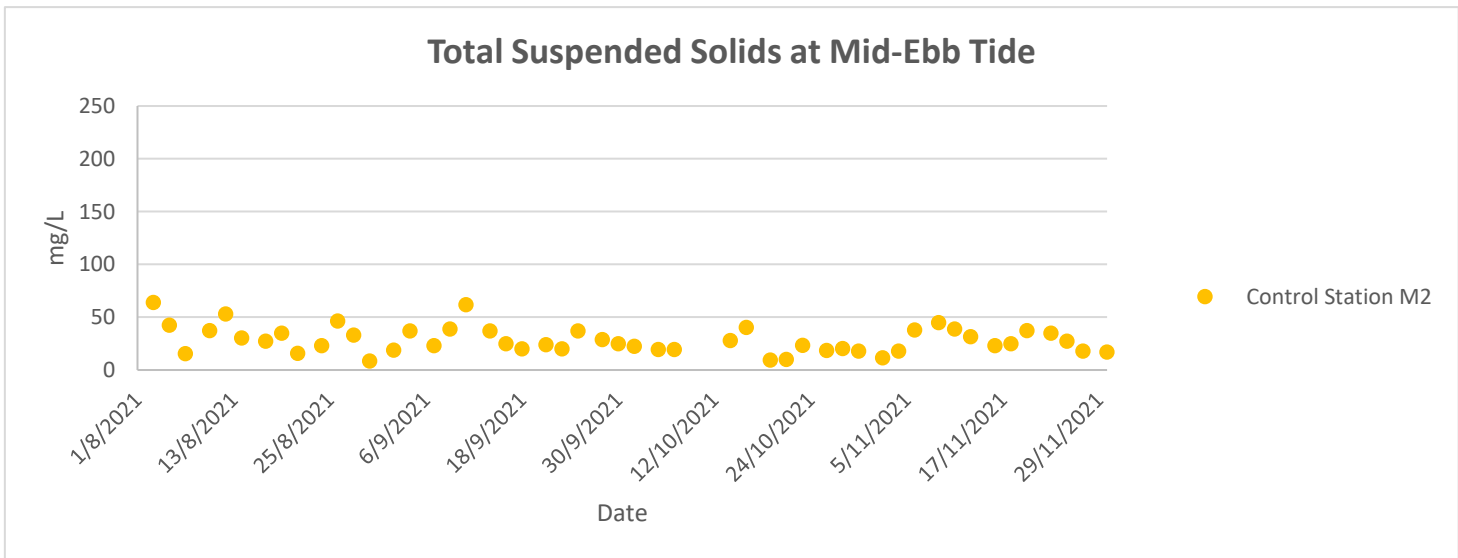
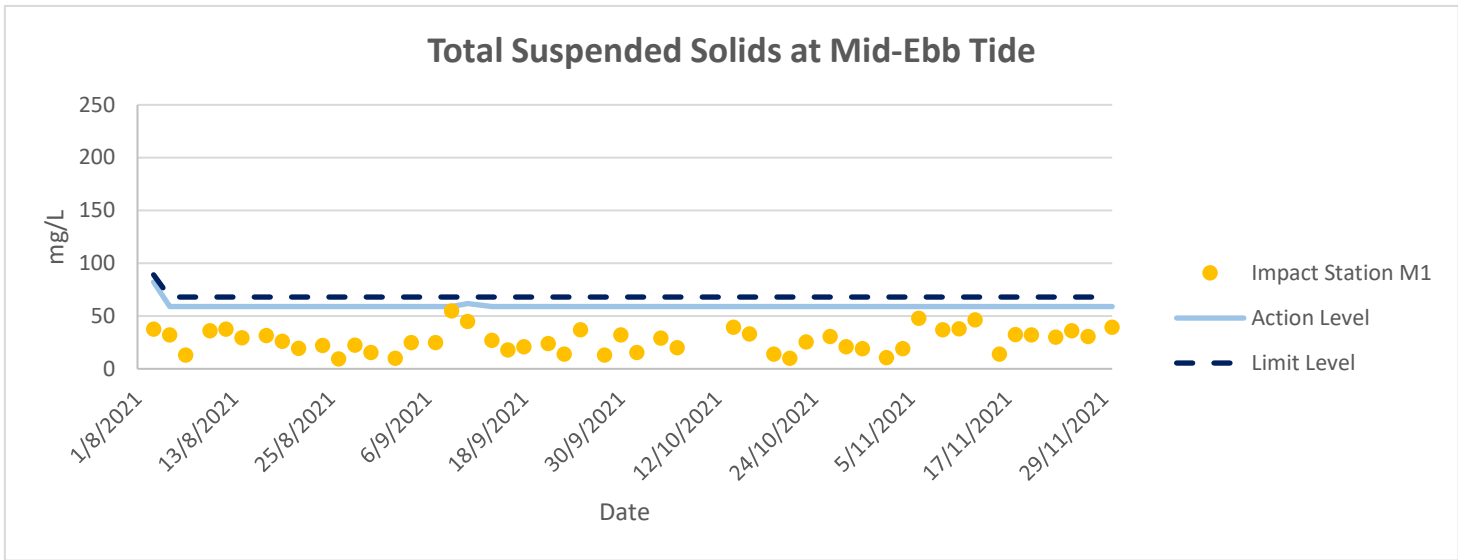


Turbidity at Mid-Ebb Tide



Turbidity at Mid-Ebb Tide





Ecology Monitoring Results

Ecology Monitoring Results for
Contract No. SPW 07/2020
Environmental Team for Construction of Yuen long Effluent Polishing Plant Stage 1

Appendix F.1 Supplemental Discussion

F.1.1 Ecological Monitoring of Birds

F.1.1.1 Abundance

F.1.1.1.1 All Avifauna Species

Point Count

Among the different species recorded, the Great Cormorant *Phalacrocorax carbo* was noted with the highest abundance (156 ind.) with majority of its individuals recorded while they were in flight, and resting on a *Eucalyptus* tree in Nam Sang Wai. Flocks were in flight to the direction of the nearby Deep Bay area. On the other hand, species with the least abundance (1 ind.) include the Greater Coucal *Centropus sinensis* and Collared Crow *Corvus torquatus*.

Transect Walk

Among the different species recorded, the Great Cormorant was noted with the highest abundance (48 ind.) and followed by Crested Myna *Acridotheres cristatellus* (43 ind.). On the other hand, the Common Kingfisher *Alcedo atthis*, Whiskered Tern *Chlidonias hybrida*, Collared Crow *Corvus torquatus*, Black Kite *Milvus migrans* and Yellow-bellied Prinia *Prinia flaviventris* had the lowest abundance (1 ind. each).

F.1.1.1.2 Avifauna Species of Conservation Importance

Point Count

Among the different species recorded, the Great Cormorant was recorded with the highest abundance (156 ind.). on the other hand, the Collared Crow and Greater Coucal had the lowest abundance (1 ind. each).

Transect Walk

Among the different species recorded, the Great Cormorant was noted with the highest abundance (48 ind.) while both Black Kite and Collared Crow had the lowest recorded abundance (1 ind. each).

Appendix F.2 Ecological Bird Monitoring Results (15 November 2021)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect/ Point Count	Point Count (Location)/ Transect Impact	Habitat	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 ¹⁰	IUCN Red List ⁷ (v.202 0-3)	Species of Conservation Importance	Wetland Dependent	Remarks
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	4	Introduced	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW1	In Flight	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW1	In Flight	Great Cormorant	<i>Phalacrocorax carbo</i>	61	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	1	Common	R	LC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW3	In Flight	Great Cormorant	<i>Phalacrocorax carbo</i>	15	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Red Turtle Dove	<i>Streptopelia tranquebarica</i>	2	Uncommon	PM	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW4	In Flight	Whiskered Tern	<i>Chlidonias hybrida</i>	2	Uncommon	PM	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	3	Abundant	PM,SV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Scaly-breasted Munia	<i>Lonchura punctulata</i>	18	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW4	In Flight	Great Cormorant	<i>Phalacrocorax carbo</i>	12	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Red Turtle Dove	<i>Streptopelia tranquebarica</i>	2	Uncommon	PM	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	20	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Great Egret	<i>Ardea alba</i>	7	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	7	Common	R,PM	-	-	-	LC	LC	N	Y	

15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	8	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	7	Abundant	PM,SV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	11	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Red Turtle Dove	<i>Streptopelia tranquebarica</i>	1	Uncommon	PM	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	8	Common	R,PM	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	3	Introduced	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	8	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	2	Abundant	PM,SV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	In Flight	Great Cormorant	<i>Phalacrocorax carbo</i>	3	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	9	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	4	Common	R,PM	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Plantation-FLW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Plantation-FLW	Black Drongo	<i>Dicrurus macrocercus</i>	2	Common	SV	-	-		LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	7	Abundant	PM,SV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	1	Common	R	LC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Pied Kingfisher	<i>Ceryle rudis</i>	1	Uncommon	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Reedbed	Scaly-breasted Munia	<i>Lonchura punctulata</i>	1	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Great Cormorant	<i>Phalacrocorax carbo</i>	50	Common	WV	PRC	-	-	LC	LC	Y	Y	Resting on a <i>Eucalyptus</i> tree

15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	1	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Pond-NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Little Ringed Plover	<i>Charadrius dubius</i>	3	Common	WV,PM	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Collared Crow	<i>Corvus torquatus</i>	1	Uncommon	R	LC	-	-	NT	VU	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Intermediate Egret	<i>Egretta intermedia</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Snipe	<i>Gallinago gallinago</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	4	Common	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Plantation-NSW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	3	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	8	Common	PM	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	In Flight	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Plantation-NSW	Common Tailorbird	<i>Orthotomus sutorius</i>	2	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-faced Spoonbill	<i>Platalea minor</i>	1	Common	WV	PGC	Class II	EN	EN	EN	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Greenshank	<i>Tringa nebularia</i>	4	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Northern Shoveler	<i>Anas clypeata</i>	5	Abundant	WV	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	8	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Intermediate Egret	<i>Egretta intermedia</i>	5	Common	PM	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Common Snipe	<i>Gallinago gallinago</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	3	Common	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Plantation-NSW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Black-faced Spoonbill	<i>Platalea minor</i>	2	Common	WV	PGC	Class II	EN	EN	EN	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Pied Avocet	<i>Recurvirostra avosetta</i>	2	Abundant	WV	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Marsh Sandpiper	<i>Tringa stagnatilis</i>	2	Common	PM,WV	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Common Redshank	<i>Tringa totanus</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	

15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Pied Kingfisher	<i>Ceryle rudis</i>	1	Uncommon	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Little Ringed Plover	<i>Charadrius dubius</i>	2	Common	WV,PM	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	8	Common	R	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	14	Common	PM	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Plantation-NSW	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Little Grebe	<i>Tachybaptus ruficollis</i>	5	Common	R	LC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Common Greenshank	<i>Tringa nebularia</i>	5	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	36	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Northern Shoveler	<i>Anas clypeata</i>	4	Abundant	WV	RC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Great Egret	<i>Ardea alba</i>	4	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Collared Crow	<i>Corvus torquatus</i>	1	Uncommon	R	LC	-	-	NT	VU	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Plantation-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	10	Introduced	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	12	Abundant	PM,SV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	In Flight	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	7	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	In Flight	Great Cormorant	<i>Phalacrocorax carbo</i>	45	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	3	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	8	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	9	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	5	Common	R	LC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Azure-winged Magpie	<i>Cyanopica cyanus</i>	2	Introduced	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Scaly-breasted Munia	<i>Lonchura punctulata</i>	2	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Eurasian Tree Sparrow	<i>Passer montanus</i>	3	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Little Grebe	<i>Tachybaptus ruficollis</i>	1	Common	R	LC	-	-	LC	LC	Y	Y	

15/11/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	5	Common	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Whiskered Tern	<i>Chlidonias hybrida</i>	1	Uncommon	PM	-	-	-	LC	LC	N	Y	
15/11/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Eurasian Tree Sparrow	<i>Passer montanus</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y	
15/11/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Spotted Dove	<i>Spilopelia chinensis</i>	4	Abundant	R	-	-	-	LC	LC	N	N	
15/11/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Japanese White-eye	<i>Zosterops japonicus</i>	3	Abundant	R	-	-	-	LC	LC	N	N	

Notes:

(1) All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).

(2) AFCD (2021). Hong Kong Biodiversity Database.

(3) Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;

(4) 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.

(5) List of Wild Animals under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).

(6) Zheng, G. M. and Wang, Q. S. (1998). China Red Data Book

(7) IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.

(9) Wetland-dependent species (including wetland-dependent species and waterbirds).

(10) Jiang et al. (2016). Red List of China's Vertebrates

Appendix F.3.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (15 November 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	30	0.064935	-2.73437	-0.17756	0.485504
<i>Amaurornis phoenicurus</i>	4	0.008658	-4.74927	-0.04112	0.195286
<i>Anas clypeata</i>	5	0.010823	-4.52613	-0.04898	0.221708
<i>Ardea alba</i>	7	0.015152	-4.18965	-0.06348	0.265958
<i>Ardea cinerea</i>	8	0.017316	-4.05612	-0.07024	0.284885
<i>Ardeola bacchus</i>	22	0.047619	-3.04452	-0.14498	0.441387
<i>Bubulcus coromandus</i>	19	0.041126	-3.19113	-0.13124	0.418793
<i>Centropus sinensis</i>	1	0.002165	-6.13556	-0.01328	0.081483
<i>Ceryle rudis</i>	2	0.004329	-5.44242	-0.02356	0.128225
<i>Charadrius dubius</i>	5	0.010823	-4.52613	-0.04898	0.221708
<i>Chlidonias hybrida</i>	2	0.004329	-5.44242	-0.02356	0.128225
<i>Copsychus saularis</i>	2	0.004329	-5.44242	-0.02356	0.128225
<i>Corvus torquatus</i>	1	0.002165	-6.13556	-0.01328	0.081483
<i>Cyanopica cyanus</i>	7	0.015152	-4.18965	-0.06348	0.265958
<i>Dicrurus macrocercus</i>	2	0.004329	-5.44242	-0.02356	0.128225
<i>Egretta garzetta</i>	7	0.015152	-4.18965	-0.06348	0.265958
<i>Egretta intermedia</i>	8	0.017316	-4.05612	-0.07024	0.284885
<i>Gallinago gallinago</i>	4	0.008658	-4.74927	-0.04112	0.195286
<i>Gallinula chloropus</i>	15	0.032468	-3.42751	-0.11128	0.381424
<i>Garrulax perspicillatus</i>	5	0.010823	-4.52613	-0.04898	0.221708
<i>Gracupica nigricollis</i>	16	0.034632	-3.36298	-0.11647	0.391675
<i>Halcyon smyrnensis</i>	2	0.004329	-5.44242	-0.02356	0.128225
<i>Himantopus himantopus</i>	24	0.051948	-2.95751	-0.15364	0.454383
<i>Hirundo rustica</i>	19	0.041126	-3.19113	-0.13124	0.418793
<i>Lonchura punctulata</i>	19	0.041126	-3.19113	-0.13124	0.418793
<i>Milvus migrans</i>	2	0.004329	-5.44242	-0.02356	0.128225
<i>Motacilla alba</i>	5	0.010823	-4.52613	-0.04898	0.221708
<i>Orthotomus sutorius</i>	3	0.006494	-5.03695	-0.03271	0.164746
<i>Phalacrocorax carbo</i>	156	0.337662	-1.08571	-0.3666	0.398024
<i>Phylloscopus fuscatus</i>	3	0.006494	-5.03695	-0.03271	0.164746
<i>Platalea minor</i>	3	0.006494	-5.03695	-0.03271	0.164746
<i>Prinia inornata</i>	4	0.008658	-4.74927	-0.04112	0.195286
<i>Pycnonotus sinensis</i>	3	0.006494	-5.03695	-0.03271	0.164746
<i>Recurvirostra avosetta</i>	2	0.004329	-5.44242	-0.02356	0.128225
<i>Spilopelia chinensis</i>	15	0.032468	-3.42751	-0.11128	0.381424
<i>Streptopelia tranquebarica</i>	5	0.010823	-4.52613	-0.04898	0.221708
<i>Tachybaptus ruficollis</i>	9	0.019481	-3.93834	-0.07672	0.302153
<i>Tringa nebularia</i>	9	0.019481	-3.93834	-0.07672	0.302153
<i>Tringa stagnatilis</i>	2	0.004329	-5.44242	-0.02356	0.128225
<i>Tringa totanus</i>	5	0.010823	-4.52613	-0.04898	0.221708
Total	462	1	-175.534	-2.823	9.926005
Richness	40				
SS	9.926005				
SQ	7.96935				
H	2.823				
S²_H	0.004327				

Appendix F.3.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (15 November 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	5	0.01845	-3.99268	-0.07367	0.294124
<i>Ardea alba</i>	7	0.02583	-3.65621	-0.09444	0.345295
<i>Ardea cinerea</i>	8	0.02952	-3.52268	-0.10399	0.366325
<i>Ardeola bacchus</i>	22	0.081181	-2.51108	-0.20385	0.511886
<i>Centropus sinensis</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Corvus torquatus</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Egretta garzetta</i>	7	0.02583	-3.65621	-0.09444	0.345295
<i>Egretta intermedia</i>	8	0.02952	-3.52268	-0.10399	0.366325
<i>Himantopus himantopus</i>	24	0.088561	-2.42406	-0.21468	0.520392
<i>Milvus migrans</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Phalacrocorax carbo</i>	156	0.575646	-0.55226	-0.31791	0.175569
<i>Platalea minor</i>	3	0.01107	-4.50351	-0.04985	0.224519
<i>Recurvirostra avosetta</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Tachybaptus ruficollis</i>	9	0.03321	-3.40489	-0.11308	0.385018
<i>Tringa nebularia</i>	9	0.03321	-3.40489	-0.11308	0.385018
<i>Tringa stagnatilis</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Tringa totanus</i>	5	0.01845	-3.99268	-0.07367	0.294124
Total	271	1	-65.075	-1.70667	4.979038
Richness	17				
SS	4.979038				
SQ	2.912721				
H	1.70667				
S²_H	0.007734				

Appendix F.3.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (15 November 2021)

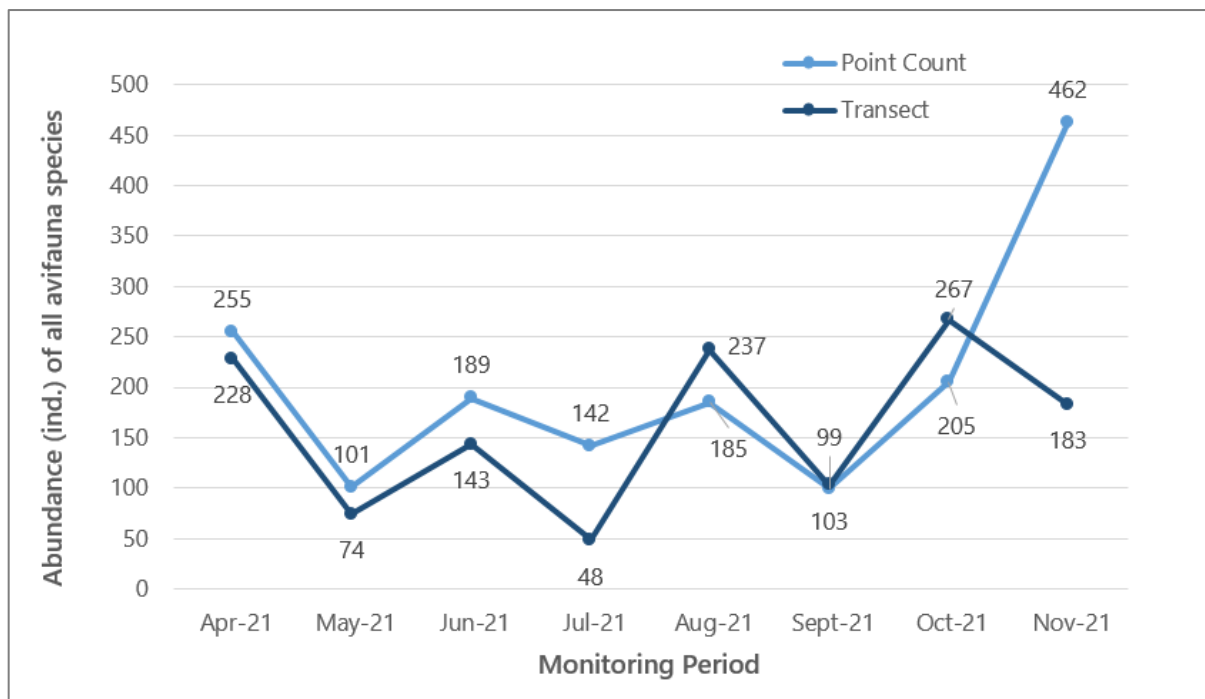
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	43	0.234973	-1.44829	-0.34031	0.492863
<i>Alcedo atthis</i>	1	0.005464	-5.20949	-0.02847	0.148299
<i>Anas clypeata</i>	4	0.021858	-3.82319	-0.08357	0.319493
<i>Ardea alba</i>	4	0.021858	-3.82319	-0.08357	0.319493
<i>Ardea cinerea</i>	4	0.021858	-3.82319	-0.08357	0.319493
<i>Chlidonias hybrida</i>	1	0.005464	-5.20949	-0.02847	0.148299
<i>Corvus torquatus</i>	1	0.005464	-5.20949	-0.02847	0.148299
<i>Cyanopica cyanus</i>	12	0.065574	-2.72458	-0.17866	0.486776
<i>Hirundo rustica</i>	12	0.065574	-2.72458	-0.17866	0.486776
<i>Lonchura punctulata</i>	2	0.010929	-4.51634	-0.04936	0.222922
<i>Milvus migrans</i>	1	0.005464	-5.20949	-0.02847	0.148299
<i>Motacilla alba</i>	9	0.04918	-3.01226	-0.14814	0.446249
<i>Passer montanus</i>	5	0.027322	-3.60005	-0.09836	0.354108
<i>Phalacrocorax carbo</i>	48	0.262295	-1.33829	-0.35103	0.469772
<i>Phylloscopus fuscatus</i>	3	0.016393	-4.11087	-0.06739	0.277037
<i>Prinia flaviventris</i>	1	0.005464	-5.20949	-0.02847	0.148299
<i>Prinia inornata</i>	8	0.043716	-3.13004	-0.13683	0.428292
<i>Pycnonotus sinensis</i>	2	0.010929	-4.51634	-0.04936	0.222922

<i>Spilopelia chinensis</i>	13	0.071038	-2.64454	-0.18786	0.496811
<i>Tachybaptus ruficollis</i>	6	0.032787	-3.41773	-0.11206	0.382979
<i>Zosterops japonicus</i>	3	0.016393	-4.11087	-0.06739	0.277037
Total	183	1	-78.8118	-2.35845	6.744518
Richness	21				
SS	6.744518				
SQ	5.562291				
H	2.35845				
S²_H	0.006759				

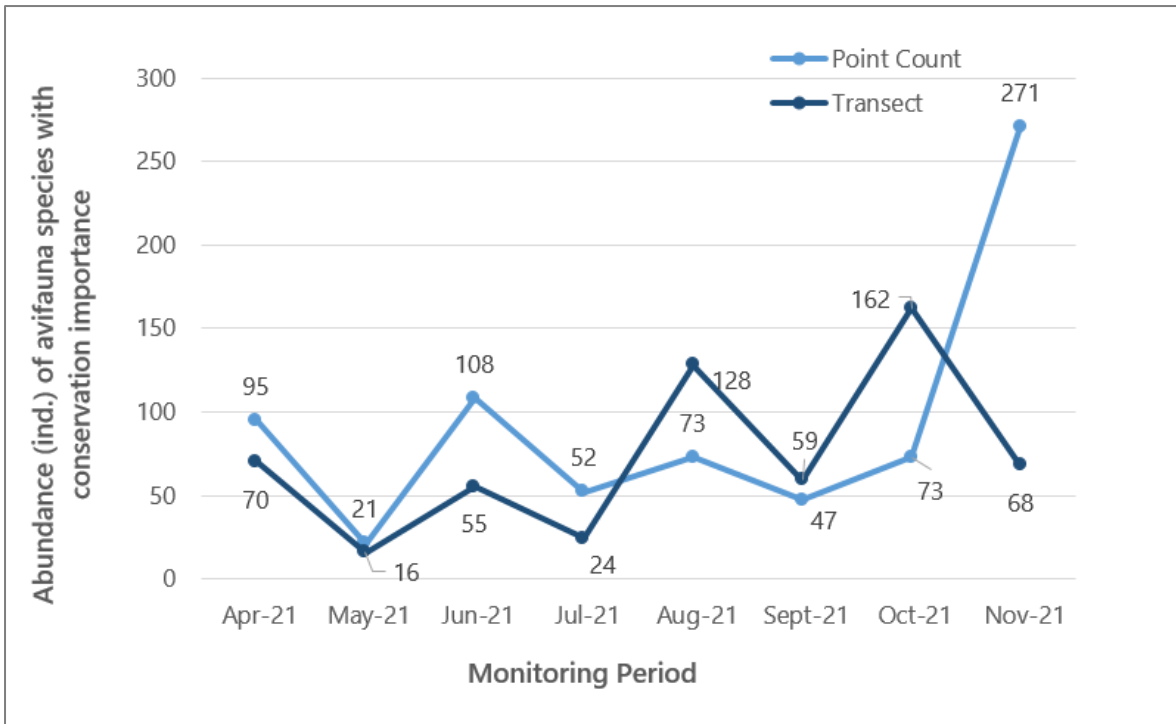
Appendix F.3.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (15 November 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	4	0.058824	-2.83321	-0.16666	0.472182
<i>Ardea alba</i>	4	0.058824	-2.83321	-0.16666	0.472182
<i>Ardea cinerea</i>	4	0.058824	-2.83321	-0.16666	0.472182
<i>Corvus torquatus</i>	1	0.014706	-4.21951	-0.06205	0.261827
<i>Milvus migrans</i>	1	0.014706	-4.21951	-0.06205	0.261827
<i>Phalacrocorax carbo</i>	48	0.705882	-0.34831	-0.24586	0.085636
<i>Tachybaptus ruficollis</i>	6	0.088235	-2.42775	-0.21421	0.520055
Total	68	1	-19.7147	-1.08416	2.545892
Richness	7				
SS	2.545892				
SQ	1.1754				
H	1.08416				
S²_H	0.020803				

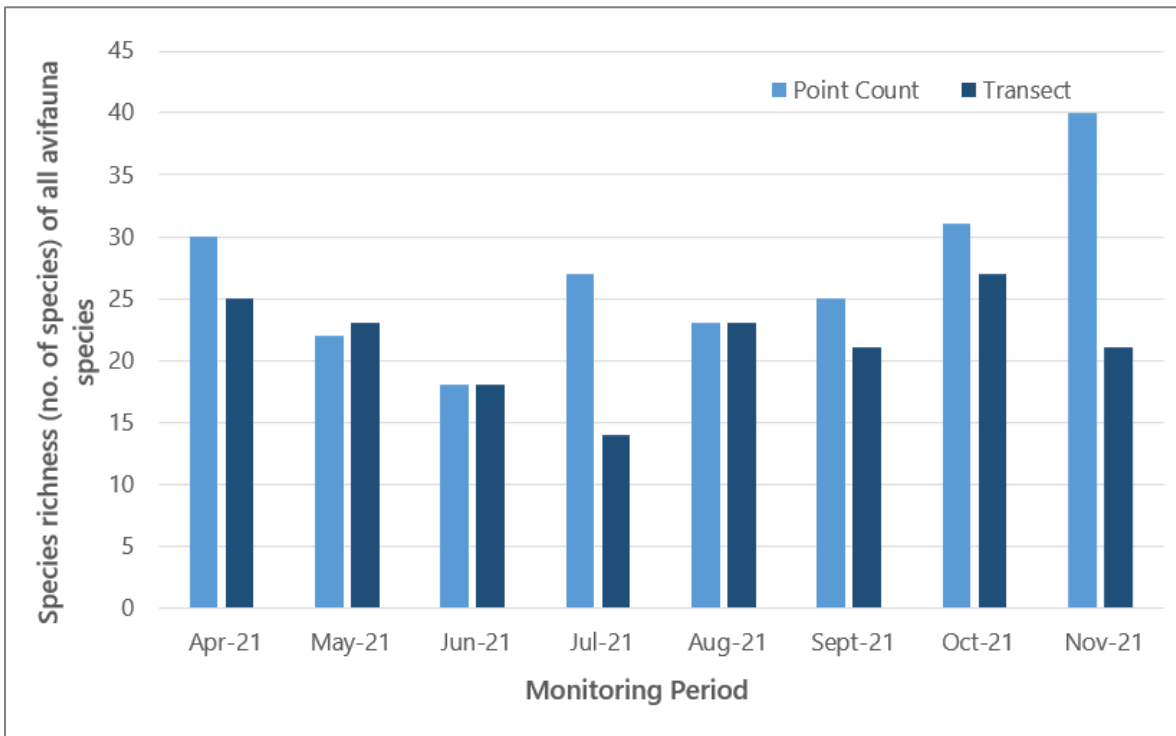
Appendix F.4.1 Abundance of all avifauna species throughout the monitoring period



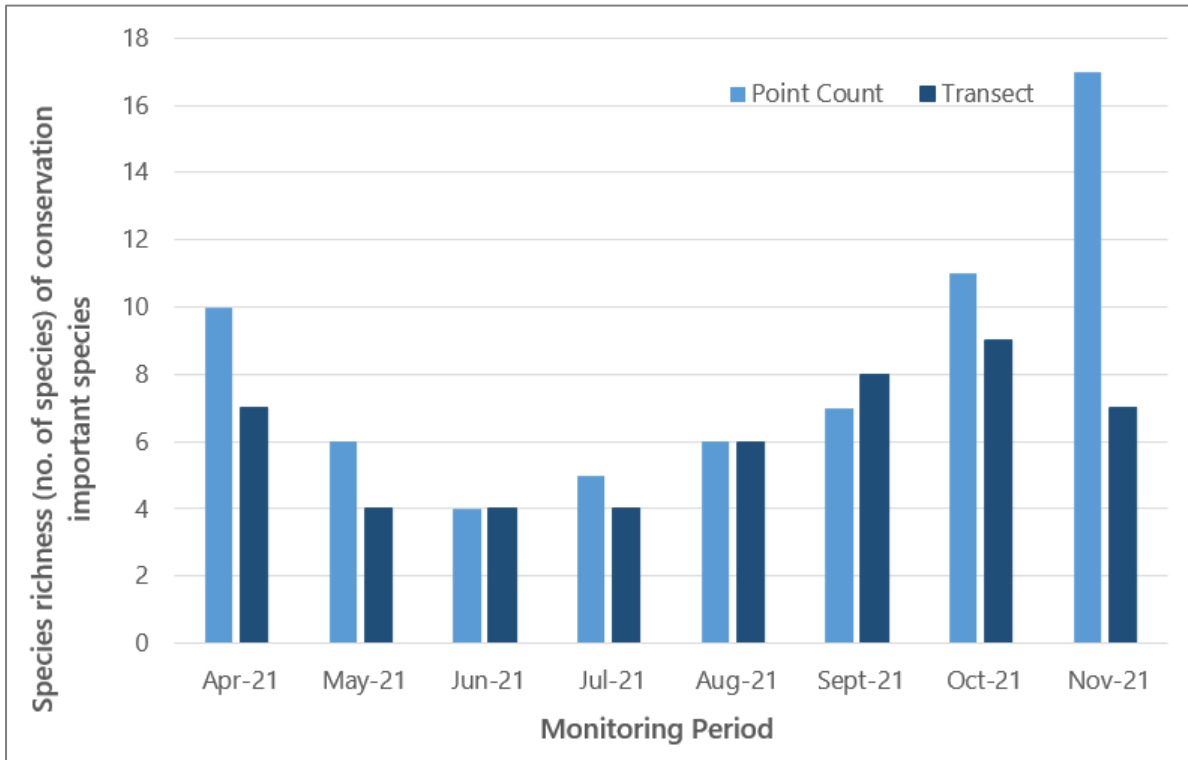
Appendix F.4.2 Abundance of avifauna species with conservation importance throughout the monitoring period



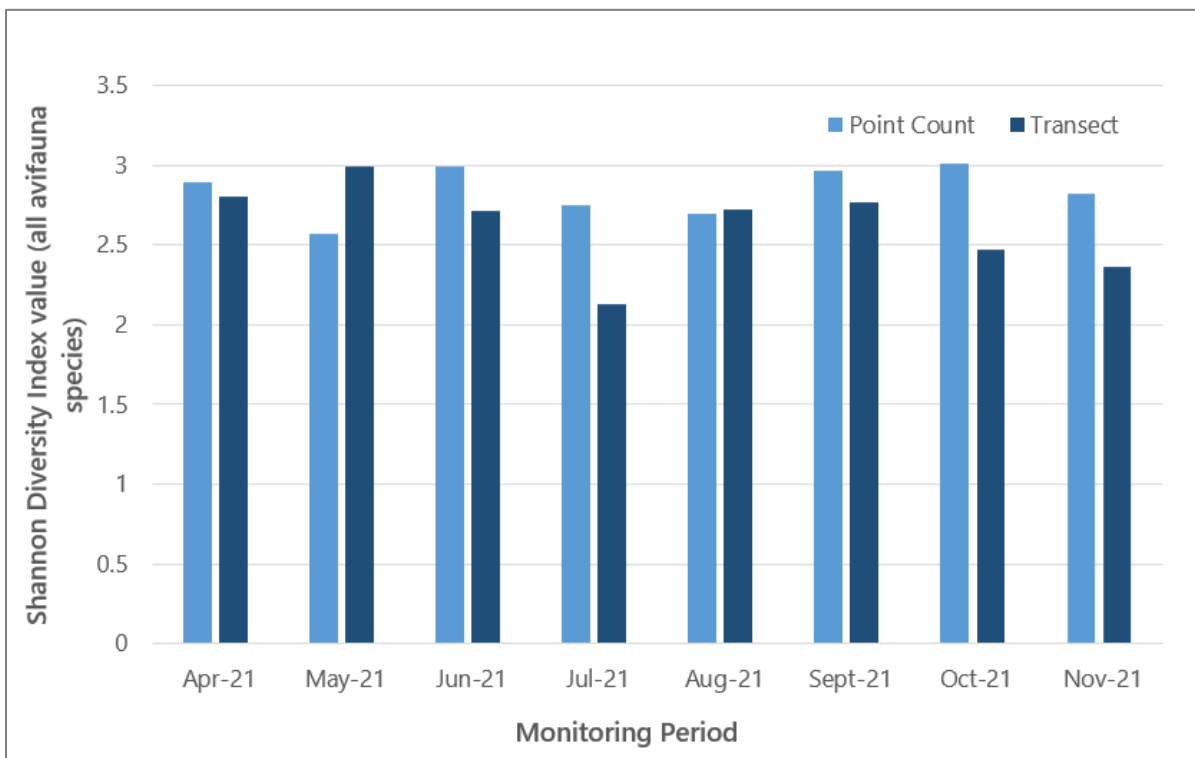
Appendix F.5.1 Species richness of all avifauna species throughout the monitoring period



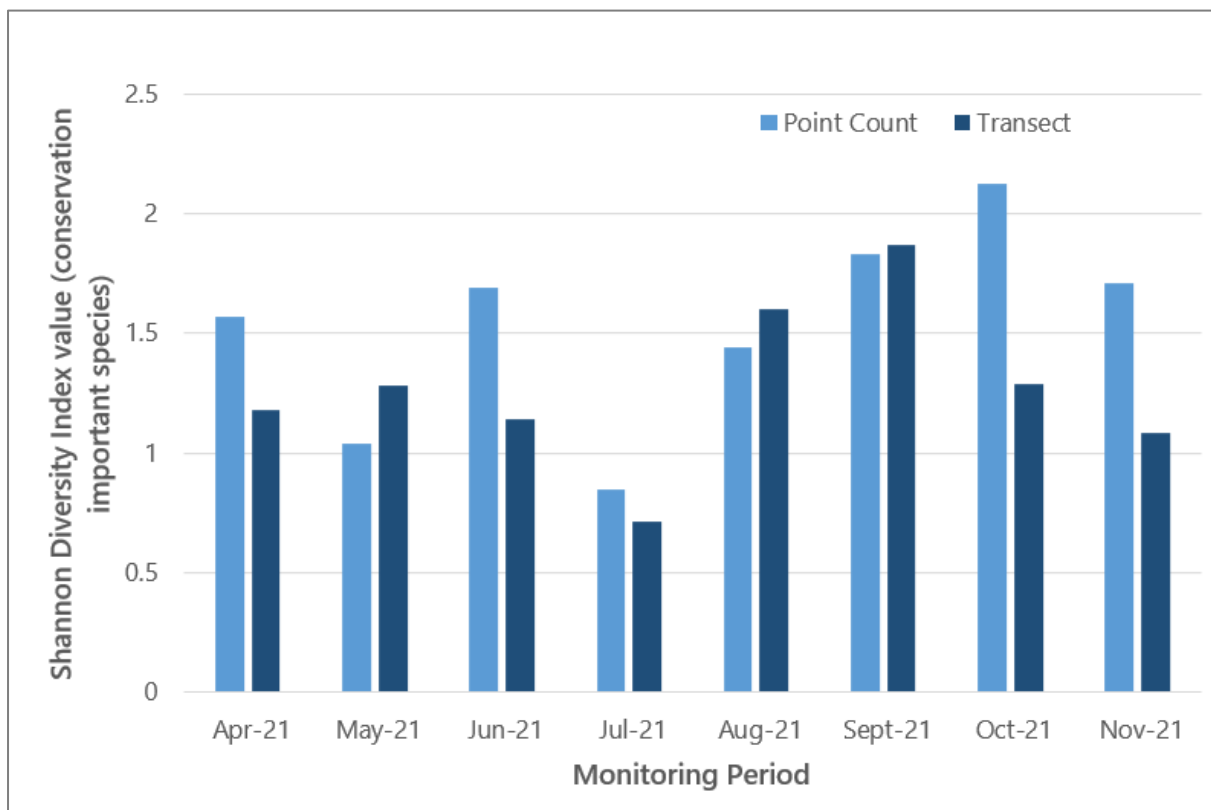
Appendix F.5.2 Species richness of avifauna species with conservation importance throughout the monitoring period



Appendix F.6.1 Shannon Diversity Index values of all avifauna species throughout the monitoring period



Appendix F.6.2 Shannon Diversity Index values of avifauna species with conservation importance throughout the monitoring period



Appendix F.7 Two-tailed Unpaired T-test

Formula:

$$t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

Appendix F.7.1 Abundance of all avifauna species – Point Count Method

Months	November 2016	November 2021
N	129	106
df	128	105
M	4.71	4.36
SS	9704.39	6756.38
S ²	75.82	64.35
t-value	0.32	
p-value	0.75	
Notes: N: Number of samples/observation df: Degrees of freedom M: Mean SS: Sum of Squares		

Months	November 2016	November 2021
S ² : Measure on a random sample that is used to estimate the variance of the population		

Appendix F.7.2 Abundance of avifauna species with conservation importance – Point Count Method

Months	November 2016	November 2021
N	64	47
df	63	46
M	6.16	5.77
SS	8110.44	5788.43
S ²	128.74	125.84
t-value	0.18	
p-value	0.86	
Notes: N: Number of samples/observation df: Degrees of freedom M: Mean SS: Sum of Squares S ² : Measure on a random sample that is used to estimate the variance of the population		

Appendix F.8 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.8.1 Species diversity of all avifauna species – Transect Walk Method

Months	November 2016	November 2021
Total	125	183
N	20	21
H	2.39	2.36
S ² _H	0.010155007	0.006759
t	0.21	
df	266	
Crit	1.97	
p	0.84	
CI	0.20154411	0.164425
Notes: Total: Total abundance		

Months	November 2016	November 2021
N: Number of species H: Shannon Diversity Index S^2_H : variance t: t-value df: degrees of freedom Crit: critical value p: p-value CI: confidence interval		

Appendix F.8.2 Species diversity of avifauna species with conservation importance – Point Count Method

Months	November 2016	November 2021
Total	394	271
N	20	17
H	1.91	1.71
S^2_H	0.005	0.008
t	1.82	
df	563.15	
Crit	1.96	
p	0.07	
CI	0.139	0.176
Notes: Total: Total abundance N: Number of species H: Shannon Diversity Index S^2_H : variance t: t-value df: degrees of freedom Crit: critical value p: p-value CI: confidence interval		

Appendix F.8.3 Species diversity of avifauna species with conservation importance – Transect Walk Method

Months	November 2016	November 2021
Total	59	68
N	7	7
H	1.12	1.08
S^2_H	0.022109546	0.020803
t	0.18	
df	126	
Crit	1.98	
p	0.86	

Months	November 2016	November 2021
CI	0.297385582	0.288466
Notes: Total: Total abundance N: Number of species H: Shannon Diversity Index S^2_H : variance t: t-value df: degrees of freedom Crit: critical value p: p-value CI: confidence interval		