
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		
2-Dec-21	Fine	8:44	74	56	63	291	500
8-Dec-21	Fine	8:37	77	63	67		
14-Dec-21	Fine	8:32	63	60	67		
20-Dec-21	Cloudy	8:34	42	56	67		
24-Dec-21	Cloudy	8:31	67	70	56		
30-Dec-21	Fine	8:32	60	63	77		
		Min	42				
		Max	77				
		Average	64				

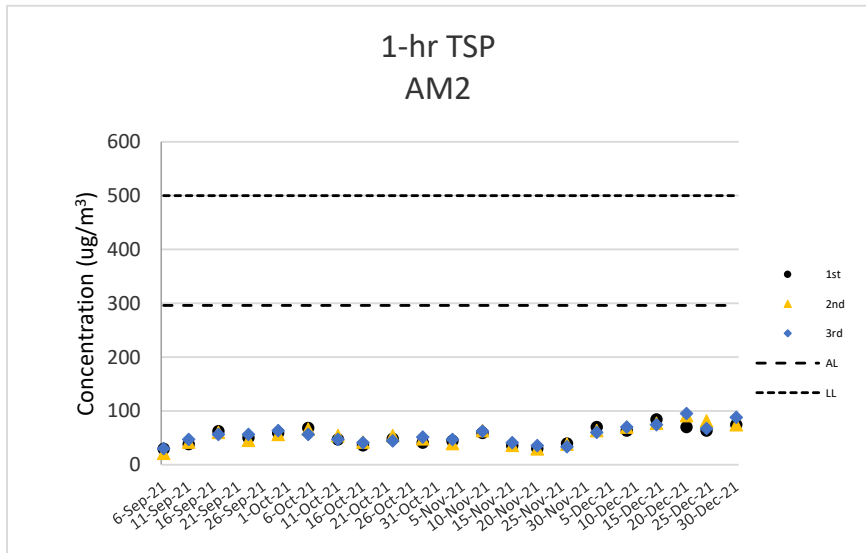
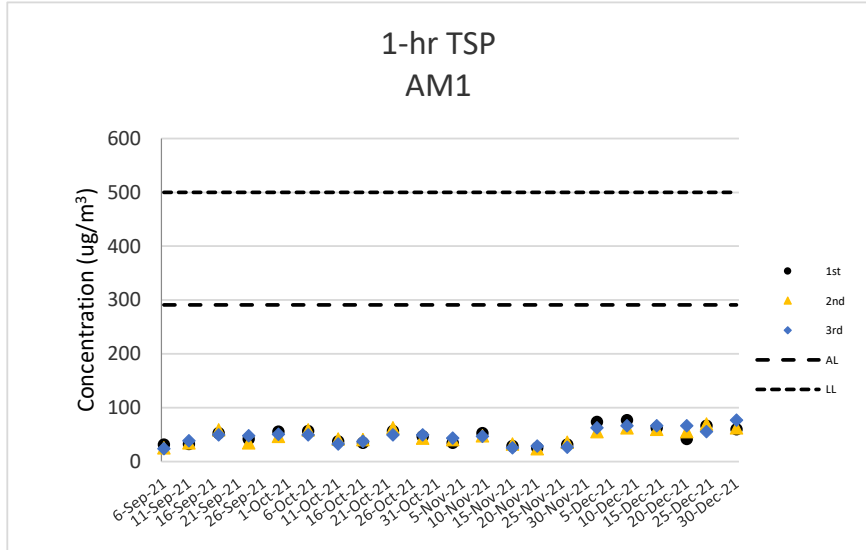
AM2 - Squatter house at the west of Yuen Long STW

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		
2-Dec-21	Fine	8:33	70	63	60	296	500
8-Dec-21	Fine	8:49	63	70	70		
14-Dec-21	Fine	8:39	84	77	74		
20-Dec-21	Cloudy	8:46	70	91	95		
24-Dec-21	Cloudy	8:44	63	81	67		
30-Dec-21	Fine	8:45	74	74	88		
		Min	60				
		Max	95				
		Average	74				

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)
2-Dec-21	9:39	55	57	52	0.3	Fine	75
8-Dec-21	9:41	56	58	53	0.5	Fine	75
14-Dec-21	9:17	53	57	50	0.6	Fine	75
20-Dec-21	10:07	54	56	51	0.3	Cloudy	75
30-Dec-21	14:20	53	55	51	0.1	Fine	75
	Max	56					
	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)
2-Dec-21	11:08	60	63	55	0.4	Fine	75
8-Dec-21	11:22	61	64	56	0.3	Fine	75
14-Dec-21	9:58	60	64	56	0.7	Fine	75
20-Dec-21	8:51	61	64	56	0.3	Cloudy	75
30-Dec-21	8:52	61	64	56	0.2	Fine	75
	Max	61					
	Min	60					

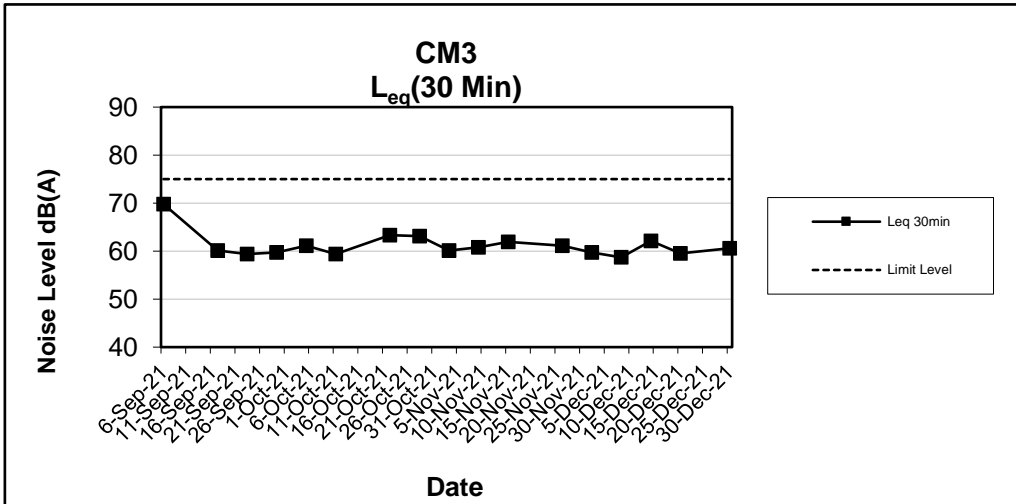
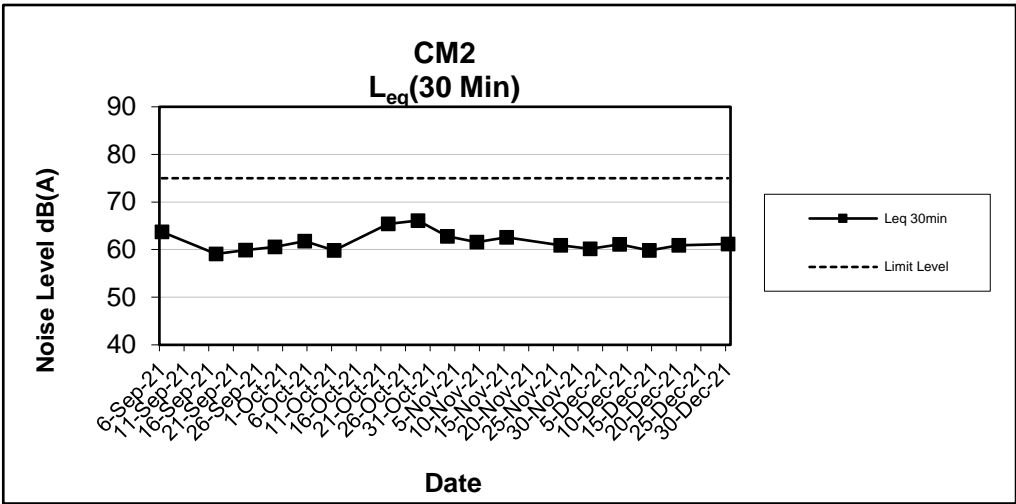
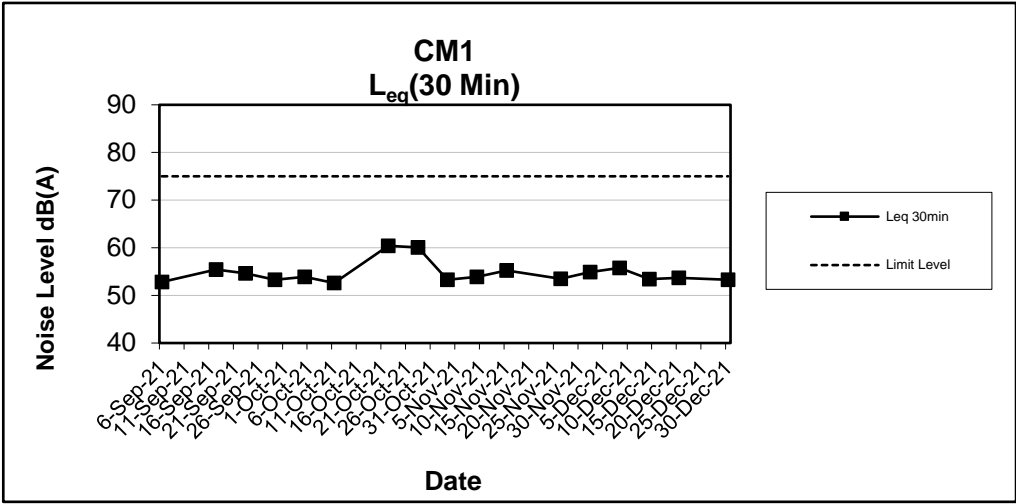
CM3 - Squatter house to the east of YLSTW

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-Dec-21	13:32	60	62	55	0.5	Fine	75
8-Dec-21	13:42	59	62	55	0.4	Fine	75
14-Dec-21	10:41	62	66	61	0.7	Fine	75
20-Dec-21	11:25	60	62	55	0.3	Cloudy	75
30-Dec-21	13:01	61	64	56	0.3	Fine	75
	Max	62					
	Min	59					

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	2/12/2021	Mid-Flood	Fine	Smooth	6:19	2.2	M	1.1	1	0.205	205	7.34	7.35	11.83	11.83	15.66	15.66	67.4	67.6	5.85	5.87	17.1	17.3	24	25
M1	2/12/2021	Mid-Flood	Fine	Smooth	6:19	2.2	M	1.1	2			7.35	7.35	11.82	11.83	15.65	15.66	67.8	67.6	5.88	5.87	17.4	17.3	25	
M2	2/12/2021	Mid-Flood	Fine	Smooth	6:33	1.2	M	0.6	1	0.22	296	7.46	7.47	10.47	10.48	15.21	15.21	66.2	66.1	5.76	5.75	20.0	20.1	23	24
M2	2/12/2021	Mid-Flood	Fine	Smooth	6:33	1.2	M	0.6	2			7.48	7.48	10.48	10.48	15.20	15.21	65.9	66.1	5.73	5.75	20.2	20.1	25	
M3	2/12/2021	Mid-Flood	Fine	Smooth	6:24	0.4	M	0.2	1	0.233	80	7.62	7.63	9.51	9.51	15.05	15.06	65.0	65.2	5.68	5.70	22.1	22.3	25	26
M3	2/12/2021	Mid-Flood	Fine	Smooth	6:24	0.4	M	0.2	2			7.63	7.63	9.50	9.51	15.06	15.06	65.3	65.2	5.71	5.70	22.5	22.3	26	
M1	2/12/2021	Mid-Ebb	Fine	Smooth	12:21	2	M	1	1	0.269	318	7.11	7.11	8.77	8.77	19.48	19.47	53.1	52.6	4.58	4.54	30.5	30.4	22	21
M1	2/12/2021	Mid-Ebb	Fine	Smooth	12:21	2	M	1	2			7.11	7.11	8.76	8.77	19.46	19.47	52.1	52.6	4.50	4.54	30.3	30.4	20	
M2	2/12/2021	Mid-Ebb	Fine	Smooth	12:04	1.2	M	0.6	1	0.286	225	7.33	7.34	8.37	8.38	19.28	19.29	59.6	59.8	5.20	5.23	34.7	34.6	43	44
M2	2/12/2021	Mid-Ebb	Fine	Smooth	12:04	1.2	M	0.6	2			7.34	7.34	8.39	8.38	19.29	19.29	60.0	59.8	5.25	5.23	34.6	34.6	45	
M3	2/12/2021	Mid-Ebb	Fine	Smooth	12:04	0.4	M	0.2	1	0.259	271	7.25	7.25	8.24	8.25	19.14	19.15	57.6	56.7	5.02	4.93	36.0	35.5	19	20
M3	2/12/2021	Mid-Ebb	Fine	Smooth	12:04	0.4	M	0.2	2			7.25	7.25	8.25	8.25	19.15	19.15	55.7	56.7	4.84	4.93	35.0	35.5	21	

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	4/12/2021	Mid-Flood	Fine	Moderate	8:30	1.3	M	0.65	1	0.044	192	7.19	7.19	9.11	9.12	18.27	18.28	62.3	62.4	5.56	5.57	19.1	19.1	34	36
M1	4/12/2021	Mid-Flood	Fine	Moderate	8:30	1.3	M	0.65	2			7.18		9.12		18.29		62.4		5.57		19.1		37	
M2	4/12/2021	Mid-Flood	Fine	Moderate	8:46	1.5	M	0.75	1	0.092	313	7.38	7.36	9.19	9.19	18.53	18.54	68.8	68.9	6.10	6.12	22.2	22.2	29	29
M2	4/12/2021	Mid-Flood	Fine	Moderate	8:46	1.5	M	0.75	2			7.34		9.18		18.54		68.9		6.13		22.2		29	
M3	4/12/2021	Mid-Flood	Fine	Calm	8:32	0.4	M	0.2	1	0.214	97	7.32	7.33	8.74	8.74	16.96	16.97	44.6	44.4	4.01	3.99	39.5	38.9	48	51
M3	4/12/2021	Mid-Flood	Fine	Calm	8:32	0.4	M	0.2	2			7.33		8.74		16.98		44.1		3.97		38.3		54	
M1	4/12/2021	Mid-Ebb	Fine	Moderate	14:08	0.8	M	0.4	1	0.096	24	7.32	7.32	8.83	8.84	18.12	18.12	60.7	60.8	5.39	5.41	23.9	24.0	28	28
M1	4/12/2021	Mid-Ebb	Fine	Moderate	14:08	0.8	M	0.4	2			7.31		8.85		18.11		60.9		5.42		24.0		28	
M2	4/12/2021	Mid-Ebb	Fine	Moderate	13:49	1.1	M	0.55	1	0.058	74	7.51	7.52	8.84	8.83	18.06	18.06	62.7	62.8	5.54	5.56	22.4	22.4	25	24
M2	4/12/2021	Mid-Ebb	Fine	Moderate	13:49	1.1	M	0.55	2			7.52		8.81		18.05		62.8		5.57		22.4		22	
M3	4/12/2021	Mid-Ebb	Fine	Calm	13:49	0.6	M	0.3	1	0.189	281	7.16	7.17	7.84	7.84	19.25	19.25	49.6	49.4	4.44	4.42	28.6	29.3	34	34
M3	4/12/2021	Mid-Ebb	Fine	Calm	13:49	0.6	M	0.3	2			7.17		7.83		19.24		49.2		4.39		30.0		33	

Remark

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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	74.3	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	7/12/2021	Mid-Flood	Fine	Moderate	11:10	1.2	M	0.6	1	0.067	135	7.21	7.22	10.54	10.55	18.70	18.70	48.5	48.4	4.26	4.25	27.4	27.5	34	33
M1	7/12/2021	Mid-Flood	Fine	Moderate	11:10	1.2	M	0.6	2			7.23		10.55		18.70		48.3		4.24		27.5		31	
M2	7/12/2021	Mid-Flood	Fine	Moderate	11:34	1.4	M	0.7	1	0.057	72	10.44	7.22	10.44	10.44	18.89	18.89	44.2	44.2	4.07	4.06	26.8	26.6	44	44
M2	7/12/2021	Mid-Flood	Fine	Moderate	11:34	1.4	M	0.7	2			7.24		10.43		18.89		44.1		4.05		26.4		44	
M3	7/12/2021	Mid-Flood	Fine	Calm	11:05	0.2	M	0.1	1	0.248	78	7.36	7.36	9.87	9.87	18.65	18.65	56.3	56.1	4.99	4.97	18.4	18.1	20	22
M3	7/12/2021	Mid-Flood	Fine	Calm	11:05	0.2	M	0.1	2			7.35		9.87		18.65		55.8		4.95		17.9		23	
M1	7/12/2021	Mid-Ebb	Fine	Moderate	16:14	0.7	M	0.35	1	0.067	258	7.20	7.20	9.38	9.36	19.49	19.49	67.1	66.8	5.03	5.03	33.8	33.8	23	24
M1	7/12/2021	Mid-Ebb	Fine	Moderate	16:14	0.7	M	0.35	2			7.20		9.34		19.49		66.4		5.02		33.8		25	
M2	7/12/2021	Mid-Ebb	Fine	Moderate	15:56	0.9	M	0.45	1	0.028	203	7.21	7.21	10.08	10.08	19.26	19.26	53.4	53.1	4.64	4.62	31.2	31.1	43	45
M2	7/12/2021	Mid-Ebb	Fine	Moderate	15:56	0.9	M	0.45	2			7.21		10.08		19.26		52.8		4.59		31.0		47	
M3	7/12/2021	Mid-Ebb	Fine	Calm	15:58	0.6	M	0.3	1	0.204	260	7.18	7.18	8.67	8.68	20.92	20.92	60.7	60.4	5.35	5.33	30.9	30.3	32	31
M3	7/12/2021	Mid-Ebb	Fine	Calm	15:58	0.6	M	0.3	2			7.18		8.69		20.91		60.1		5.30		29.7		29	

Remark

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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	9/12/2021	Mid-Flood	Fine	Smooth	13:21	1.8	M	0.9	1	0.251	218	7.03	7.04	8.56	8.57	23.20	23.21	66.0	65.9	5.48	5.47	25.9	25.5	42	40
M1	9/12/2021	Mid-Flood	Fine	Smooth	13:21	1.8	M	0.9	2			7.04	7.04	8.57	8.57	23.21	23.21	65.8	65.9	5.46	5.47	25.1	25.5	38	40
M2	9/12/2021	Mid-Flood	Fine	Smooth	13:05	1	M	0.5	1	0.235	273	7.17	7.18	8.78	8.77	22.60	22.61	63.7	63.6	5.26	5.25	18.9	18.9	28	27
M2	9/12/2021	Mid-Flood	Fine	Smooth	13:05	1	M	0.5	2			7.19	7.19	8.76	8.77	22.62	22.62	63.5	63.6	5.24	5.25	18.9	18.9	26	27
M3	9/12/2021	Mid-Flood	Fine	Moderate	13:00	1.4	M	0.7	1	0.108	174	7.08	7.07	10.22	10.18	21.22	21.27	51.2	49.9	4.28	4.17	22.1	22.0	32	32
M3	9/12/2021	Mid-Flood	Fine	Moderate	13:00	1.4	M	0.7	2			7.06	7.07	10.13	10.18	21.32	21.27	48.6	49.9	4.06	4.17	21.9	22.0	32	32
M1	9/12/2021	Mid-Ebb	Fine	Smooth	5:03	2.2	M	1.1	1	0.323	296	7.19	7.19	10.35	10.36	16.89	16.89	57.9	58.0	4.83	4.84	14.6	14.7	22	21
M1	9/12/2021	Mid-Ebb	Fine	Smooth	5:03	2.2	M	1.1	2			7.19	7.19	10.37	10.36	16.88	16.89	58.1	58.0	4.85	4.84	14.7	14.7	20	21
M2	9/12/2021	Mid-Ebb	Fine	Smooth	5:19	1.2	M	0.6	1	0.303	236	7.27	7.28	10.62	10.62	17.44	17.45	55.2	55.1	4.58	4.57	22.3	22.4	33	33
M2	9/12/2021	Mid-Ebb	Fine	Smooth	5:19	1.2	M	0.6	2			7.28	7.28	10.61	10.62	17.45	17.45	54.9	55.1	4.55	4.57	22.4	22.4	32	33
M3	9/12/2021	Mid-Ebb	Fine	Moderate	5:30	0.7	M	0.35	1	0.052	76	6.92	6.92	7.80	7.82	22.95	22.47	68.1	67.9	5.59	5.58	27.6	27.6	39	38
M3	9/12/2021	Mid-Ebb	Fine	Moderate	5:30	0.7	M	0.35	2			6.91	6.91	7.84	7.82	22.00	22.00	67.7	67.9	5.56	5.58	27.6	27.6	37	38

Remark

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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	11/12/2021	Mid-Flood	Fine	Moderate	15:28	1.5	M	0.75	1	0.076	274	7.14	7.15	8.97	8.98	24.11	24.14	40.9	40.8	3.42	3.41	18.7	18.7	34	36
M1	11/12/2021	Mid-Flood	Fine	Moderate	15:28	1.5	M	0.75	2			7.15		8.98		24.17		40.6		3.40		18.8		37	
M2	11/12/2021	Mid-Flood	Fine	Moderate	15:09	1.1	M	0.55	1	0.088	312	7.24	7.26	8.64	8.65	23.74	23.75	44.5	44.4	3.89	3.88	16.1	16.1	18	18
M2	11/12/2021	Mid-Flood	Fine	Moderate	15:09	1.1	M	0.55	2			7.27		8.66		23.76		44.2		3.87		16.2		17	
M3	11/12/2021	Mid-Flood	Fine	Calm	14:59	0.4	M	0.2	1	0.217	70	7.30	7.31	7.71	7.72	23.27	23.27	43.6	43.4	3.56	3.54	19.9	20.0	28	28
M3	11/12/2021	Mid-Flood	Fine	Calm	14:59	0.4	M	0.2	2			7.31		7.72		23.26		43.1		3.52		20.2		27	
M1	11/12/2021	Mid-Ebb	Fine	Moderate	6:52	0.9	M	0.45	1	0.066	132	6.97	6.96	9.74	9.73	21.87	21.87	36.9	36.7	3.27	3.26	13.4	13.4	24	25
M1	11/12/2021	Mid-Ebb	Fine	Moderate	6:52	0.9	M	0.45	2			6.94		9.71		21.86		36.4		3.24		13.5		26	
M2	11/12/2021	Mid-Ebb	Fine	Moderate	7:02	0.7	M	0.35	1	0.046	314	7.09	7.15	9.64	9.65	21.96	21.97	42.5	42.7	3.67	3.68	16.1	16.2	17	16
M2	11/12/2021	Mid-Ebb	Fine	Moderate	7:02	0.7	M	0.35	2			7.21		9.66		21.97		42.9		3.69		16.3		14	
M3	11/12/2021	Mid-Ebb	Fine	Calm	7:15	0.6	M	0.3	1	0.194	249	7.01	7.02	8.98	8.97	18.52	18.53	46.8	46.7	3.84	3.84	31.1	31.2	42	43
M3	11/12/2021	Mid-Ebb	Fine	Calm	7:15	0.6	M	0.3	2			7.03		8.96		18.54		46.6		3.83		31.4		43	

Remark

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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	14/12/2021	Mid-Flood	Cloudy	Smooth	17:15	2.4	M	1.2	1	0.268	237	7.40	7.41	9.22	9.23	23.64	23.65	45.1	45.0	3.78	3.77	13.4	13.1	14	15
M1	14/12/2021	Mid-Flood	Cloudy	Smooth	17:15	2.4	M	1.2	2			7.41		9.24		23.65		44.9		3.76		12.8		15	
M2	14/12/2021	Mid-Flood	Cloudy	Smooth	17:01	1.2	M	0.6	1	0.256	308	7.35	7.36	8.89	8.89	23.41	23.40	40.1	40.3	3.37	3.39	17.6	17.1	26	25
M2	14/12/2021	Mid-Flood	Cloudy	Smooth	17:01	1.2	M	0.6	2			7.37		23.39		40.5		3.40		16.6		23			
M3	14/12/2021	Mid-Flood	Fine	Smooth	17:00	1.4	M	0.7	1	0.093	314	7.03	7.03	7.64	7.63	21.69	21.70	44.7	44.7	3.59	3.59	16.4	16.4	25	25
M3	14/12/2021	Mid-Flood	Fine	Smooth	17:00	1.4	M	0.7	2			7.02		21.70		44.6		3.58		16.4		25			
M1	14/12/2021	Mid-Ebb	Cloudy	Smooth	10:23	2	M	1	1	0.216	266	6.94	6.95	8.16	8.15	22.17	22.18	36.7	37.0	3.05	3.07	25.0	24.8	40	40
M1	14/12/2021	Mid-Ebb	Cloudy	Smooth	10:23	2	M	1	2			6.95		8.13		22.18		37.2		3.09		24.6		39	
M2	14/12/2021	Mid-Ebb	Cloudy	Smooth	10:42	1	M	0.5	1	0.202	214	7.14	7.15	8.08	8.09	21.86	21.86	26.9	27.3	2.26	2.29	15.9	15.2	19	19
M2	14/12/2021	Mid-Ebb	Cloudy	Smooth	10:42	1	M	0.5	2			7.16		21.86		27.7		2.32		14.5		19			
M3	14/12/2021	Mid-Ebb	Fine	Smooth	10:25	0.9	M	0.45	1	0.039	277	7.12	7.13	7.79	7.79	21.70	21.67	41.2	41.3	3.43	3.44	12.8	12.8	15	15
M3	14/12/2021	Mid-Ebb	Fine	Smooth	10:25	0.9	M	0.45	2			7.13		21.64		41.4		3.45		12.9		14			

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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	74.3	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	16/12/2021	Mid-Flood	Cloudy	Smooth	6:39	2	M	1	1	0.24	275	7.05	7.04	9.70	9.70	19.69	19.69	57.3	57.2	4.59	4.58	28.0	28.3	42	40
M1	16/12/2021	Mid-Flood	Cloudy	Smooth	6:39	2	M	1	2			7.03		9.69		19.68		57.1		4.57		28.7		37	
M2	16/12/2021	Mid-Flood	Cloudy	Smooth	7:00	1.2	M	0.6	1	0.231	322	7.16	7.16	9.33	9.34	20.01	20.02	55.6	55.4	4.44	4.43	21.5	21.8	35	36
M2	16/12/2021	Mid-Flood	Cloudy	Smooth	7:00	1.2	M	0.6	2			7.16		9.35		20.02		55.2		4.41		22.1		37	
M3	16/12/2021	Mid-Flood	Fine	Smooth	7:00	1.3	M	0.65	1	0.037	327	7.24	7.23	9.27	9.21	23.47	23.51	60.8	59.5	4.88	4.78	24.3	23.4	34	34
M3	16/12/2021	Mid-Flood	Fine	Smooth	7:00	1.3	M	0.65	2			7.21		9.14		23.55		58.2		4.67		22.5		34	
M1	16/12/2021	Mid-Ebb	Cloudy	Smooth	12:23	2	M	1	1	0.186	257	7.35	7.35	8.61	8.61	23.79	23.80	42.0	41.7	3.40	3.38	25.5	25.6	21	21
M1	16/12/2021	Mid-Ebb	Cloudy	Smooth	12:23	2	M	1	2			7.34		8.60		23.80		41.4		3.35		25.7		21	
M2	16/12/2021	Mid-Ebb	Cloudy	Smooth	12:01	1.2	M	0.6	1	0.213	234	7.27	7.27	8.13	8.14	23.55	23.55	36.3	36.5	2.94	2.96	19.4	19.1	19	18
M2	16/12/2021	Mid-Ebb	Cloudy	Smooth	12:01	1.2	M	0.6	2			7.26		8.15		23.54		36.7		2.97		18.7		17	
M3	16/12/2021	Mid-Ebb	Fine	Smooth	12:10	0.9	M	0.45	1	0.025	354	7.21	7.21	9.59	9.66	24.01	24.02	60.3	60.4	4.90	4.81	16.8	16.9	12	13
M3	16/12/2021	Mid-Ebb	Fine	Smooth	12:10	0.9	M	0.45	2			7.20		9.73		24.02		60.5		4.81		17.0		14	

Remark

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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	74.3	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	18/12/2021	Mid-Flood	Fine	Moderate	8:10	1.1	M	0.55	1	0.038	192	7.26	7.25	10.01	9.98	20.08	20.10	36.4	36.8	3.22	3.24	30.4	30.5	60	62
M1	18/12/2021	Mid-Flood	Fine	Moderate	8:10	1.1	M	0.55	2			7.24		9.94		20.12		19.66		37.2		36.8		3.26	
M2	18/12/2021	Mid-Flood	Fine	Moderate	8:29	0.9	M	0.45	1	0.068	327	7.19	7.17	9.81	9.82	19.66	19.65	38.8	38.9	3.46	3.47	35.7	35.8	56	54
M2	18/12/2021	Mid-Flood	Fine	Moderate	8:29	0.9	M	0.45	2			7.14		9.82		19.65		38.9		3.48		35.9		51	
M3	18/12/2021	Mid-Flood	Cloudy	Calm	8:27	0.4	M	0.2	1	0.23	81	7.28	7.29	9.45	9.44	19.59	19.60	44.7	44.9	3.85	3.87	23.6	23.1	24	25
M3	18/12/2021	Mid-Flood	Cloudy	Calm	8:27	0.4	M	0.2	2			7.29		9.43		19.60		45.1		3.88		22.6		26	
M1	18/12/2021	Mid-Ebb	Fine	Moderate	13:44	0.7	M	0.35	1	0.097	174	7.28	7.25	10.19	10.20	19.22	19.23	47.8	48.0	4.16	4.19	38.2	38.2	48	51
M1	18/12/2021	Mid-Ebb	Fine	Moderate	13:44	0.7	M	0.35	2			7.22		10.21		19.24		48.1		4.22		38.2		54	
M2	18/12/2021	Mid-Ebb	Fine	Moderate	13:24	0.6	M	0.3	1	0.103	24	7.30	7.31	10.30	10.30	18.84	18.80	50.5	50.6	4.42	4.42	36.2	36.2	50	51
M2	18/12/2021	Mid-Ebb	Fine	Moderate	13:24	0.6	M	0.3	2			7.31		10.29		18.76		50.6		4.41		36.1		51	
M3	18/12/2021	Mid-Ebb	Cloudy	Calm	13:12	0.6	M	0.3	1	0.246	257	7.11	7.12	8.51	8.51	20.71	20.71	47.6	47.4	4.15	4.13	20.8	20.5	28	28
M3	18/12/2021	Mid-Ebb	Cloudy	Calm	13:12	0.6	M	0.3	2			7.12		8.50		20.70		47.1		4.10		20.2		27	

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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	74.3	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	21/12/2021	Mid-Flood	Cloudy	Moderate	10:11	2	M	1	1	0.304	254	6.99	6.99	6.62	6.62	17.23	17.24	31.9	32.3	2.94	2.97	17.2	17.8	21	21
M1	21/12/2021	Mid-Flood	Cloudy	Moderate	10:11	2	M	1	2			6.98		6.61		17.25		32.6		2.99		18.4		20	
M2	21/12/2021	Mid-Flood	Cloudy	Moderate	10:26	1	M	0.5	1	0.287	335	7.19	7.20	6.81	6.81	17.49	17.49	35.8	36.0	3.32	3.33	20.8	21.4	23	24
M2	21/12/2021	Mid-Flood	Cloudy	Moderate	10:26	1	M	0.5	2			7.20		6.80		17.48		36.1		3.34		21.9		25	
M3	21/12/2021	Mid-Flood	Fine	Moderate	10:15	1.4	M	0.7	1	0.068	73	7.20	7.21	6.52	6.53	17.95	17.95	45.5	45.3	4.14	4.12	17.5	17.8	53	51
M3	21/12/2021	Mid-Flood	Fine	Moderate	10:15	1.4	M	0.7	2			7.21		6.53		17.95		45.0		4.10		18.0		48	
M1	21/12/2021	Mid-Ebb	Cloudy	Moderate	15:14	2.2	M	1.1	1	0.293	282	7.46	7.46	8.37	8.38	18.40	18.40	51.8	52.0	4.76	4.78	24.9	24.9	34	35
M1	21/12/2021	Mid-Ebb	Cloudy	Moderate	15:14	2.2	M	1.1	2			7.45		8.39		18.40		52.2		4.80		24.8		36	
M2	21/12/2021	Mid-Ebb	Cloudy	Moderate	14:57	1.2	M	0.6	1	0.278	197	7.39	7.39	8.26	8.26	18.77	18.76	44.8	45.1	4.14	4.16	26.8	27.6	17	18
M2	21/12/2021	Mid-Ebb	Cloudy	Moderate	14:57	1.2	M	0.6	2			7.38		8.26		18.75		45.3		4.18		28.5		19	
M3	21/12/2021	Mid-Ebb	Fine	Moderate	14:55	0.7	M	0.35	1	0.138	273	7.11	7.12	6.57	6.56	17.49	17.51	32.4	33.2	3.44	3.48	34.8	35.2	17	21
M3	21/12/2021	Mid-Ebb	Fine	Moderate	14:55	0.7	M	0.35	2			7.12		6.54		17.53		33.9		3.52		35.5		24	

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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	74.3	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	23/12/2021	Mid-Flood	Cloudy	Smooth	11:34	2	M	1	1	0.327	193	7.36	7.36	7.09	7.09	19.62	19.61	54.0	53.6	4.86	4.83	17.6	17.8	26	26
M1	23/12/2021	Mid-Flood	Cloudy	Smooth	11:34	2	M	1	2			7.35	7.35	7.08	7.08	19.60	19.60	53.2	53.6	4.80	4.83	18.1	17.8	25	26
M2	23/12/2021	Mid-Flood	Cloudy	Smooth	11:49	1.2	M	0.6	1	0.315	307	7.22	7.21	7.03	7.02	20.24	20.23	50.8	50.5	4.56	4.54	28.1	28.7	41	40
M2	23/12/2021	Mid-Flood	Cloudy	Smooth	11:49	1.2	M	0.6	2			7.20	7.20	7.01	7.01	20.22	20.22	50.2	50.5	4.51	4.54	29.3	28.7	39	40
M3	23/12/2021	Mid-Flood	Fine	Moderate	11:31	1.2	M	0.6	1	0.067	143	7.11	7.12	6.00	6.01	19.97	19.97	38.7	39.4	3.31	3.33	17.6	17.5	23	22
M3	23/12/2021	Mid-Flood	Fine	Moderate	11:31	1.2	M	0.6	2			7.12	7.12	6.01	6.01	19.98	19.97	40.1	39.4	3.34	3.33	17.5	17.5	21	22
M1	23/12/2021	Mid-Ebb	Cloudy	Smooth	16:28	2.2	M	1.1	1	0.264	314	7.17	7.18	6.03	6.04	21.77	21.78	44.8	44.6	4.01	3.99	25.2	24.4	38	36
M1	23/12/2021	Mid-Ebb	Cloudy	Smooth	16:28	2.2	M	1.1	2			7.19	7.19	6.04	6.04	21.78	21.78	44.4	44.6	3.97	3.99	23.7	24.4	33	36
M2	23/12/2021	Mid-Ebb	Cloudy	Smooth	16:11	1.2	M	0.6	1	0.312	234	7.13	7.13	6.24	6.24	22.17	22.17	39.5	39.3	3.51	3.49	20.9	20.6	30	29
M2	23/12/2021	Mid-Ebb	Cloudy	Smooth	16:11	1.2	M	0.6	2			7.12	7.12	6.24	6.24	22.17	22.17	39.1	39.3	3.47	3.49	20.2	20.6	28	29
M3	23/12/2021	Mid-Ebb	Fine	Moderate	16:10	0.9	M	0.45	1	0.047	72	7.22	7.23	5.88	5.88	20.56	20.56	53.8	53.6	4.67	4.64	29.7	29.7	47	45
M3	23/12/2021	Mid-Ebb	Fine	Moderate	16:10	0.9	M	0.45	2			7.23	7.23	5.87	5.87	20.57	20.57	53.3	53.6	4.61	4.64	29.6	29.7	43	45

Remark

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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	25/12/2021	Mid-Flood	Fine	Moderate	13:11	0.7	M	0.35	1	0.073	273	7.20	7.21	5.70	5.71	20.45	20.44	44.8	44.8	3.85	3.84	15.2	15.2	21	22
M1	25/12/2021	Mid-Flood	Fine	Moderate	13:11	0.7	M	0.35	2			7.21	7.21	5.71	5.71	20.44	20.44	44.7	44.8	3.83	3.84	15.3	15.2	22	22
M2	25/12/2021	Mid-Flood	Fine	Moderate	12:50	0.9	M	0.45	1	0.068	314	7.40	7.40	5.26	5.26	20.16	20.16	43.1	42.8	3.79	3.76	20.5	20.6	31	30
M2	25/12/2021	Mid-Flood	Fine	Moderate	12:50	0.9	M	0.45	2			7.39	7.39	5.25	5.26	20.16	20.16	42.4	42.8	3.73	3.76	20.7	20.6	28	30
M3	25/12/2021	Mid-Flood	Cloudy	Smooth	12:52	0.4	M	0.2	1	0.208	74	7.32	7.33	6.13	6.13	21.55	21.56	46.9	46.7	4.14	4.13	27.2	27.8	39	38
M3	25/12/2021	Mid-Flood	Cloudy	Smooth	12:52	0.4	M	0.2	2			7.33	7.33	6.12	6.13	21.56	21.56	46.5	46.7	4.11	4.13	28.3	27.8	36	38
M1	25/12/2021	Mid-Ebb	Fine	Moderate	5:21	1.2	M	0.6	1	0.107	72	7.21	7.23	4.93	4.93	20.54	20.57	47.2	47.2	3.42	3.41	16.7	16.7	19	20
M1	25/12/2021	Mid-Ebb	Fine	Moderate	5:21	1.2	M	0.6	2			7.24	7.24	4.92	4.93	20.60	20.57	47.1	47.2	3.39	3.41	16.7	16.7	20	20
M2	25/12/2021	Mid-Ebb	Fine	Moderate	5:39	1	M	0.5	1	0.046	65	7.26	7.25	4.86	4.85	20.37	20.37	49.1	49.2	3.54	3.55	19.4	19.4	30	29
M2	25/12/2021	Mid-Ebb	Fine	Moderate	5:39	1	M	0.5	2			7.24	7.24	4.84	4.85	20.37	20.37	49.2	49.2	3.56	3.55	19.4	19.4	28	29
M3	25/12/2021	Mid-Ebb	Cloudy	Smooth	5:32	0.4	M	0.2	1	0.263	250	7.11	7.12	5.60	5.61	17.32	17.32	52.8	53.1	4.66	4.69	15.6	16.1	17	17
M3	25/12/2021	Mid-Ebb	Cloudy	Smooth	5:32	0.4	M	0.2	2			7.12	7.12	5.62	5.61	17.31	17.31	53.4	53.1	4.71	4.69	16.5	16.1	16	17

Remark

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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	28/12/2021	Mid-Flood	Cloudy	Moderate	15:17	2.2	M	1.1	1	0.21	245	7.22	7.23	8.05	8.05	18.42	18.42	50.1	50.0	4.68	4.67	11.9	12.1	6	7
M1	28/12/2021	Mid-Flood	Cloudy	Moderate	15:17	2.2	M	1.1	2			7.24		8.04		18.42		49.9		4.66		12.3		7	
M2	28/12/2021	Mid-Flood	Cloudy	Moderate	15:01	1.2	M	0.6	1	0.197	288	7.42	7.43	7.60	7.61	18.76	18.77	41.8	42.2	3.99	4.02	15.8	15.9	15	16
M2	28/12/2021	Mid-Flood	Cloudy	Moderate	15:01	1.2	M	0.6	2			7.43		7.62		18.77		42.6		4.05		16.0		16	
M3	28/12/2021	Mid-Flood	Fine	Moderate	15:00	1.2	M	0.6	1	0.069	247	7.24	7.26	6.22	6.20	16.83	16.85	50.1	50.0	4.68	4.67	29.2	29.3	34	34
M3	28/12/2021	Mid-Flood	Fine	Moderate	15:00	1.2	M	0.6	2			7.28		6.17		16.86		49.9		4.66		29.4		34	
M1	28/12/2021	Mid-Ebb	Cloudy	Moderate	7:42	2	M	1	1	0.234	337	7.13	7.14	6.40	6.41	14.13	14.14	45.2	45.4	4.28	4.29	26.9	26.0	38	36
M1	28/12/2021	Mid-Ebb	Cloudy	Moderate	7:42	2	M	1	2			7.15		6.42		14.14		45.5		4.30		25.1		34	
M2	28/12/2021	Mid-Ebb	Cloudy	Moderate	8:00	1.2	M	0.6	1	0.257	190	7.02	7.03	6.19	6.20	14.31	14.30	37.6	38.0	3.56	3.59	21.4	21.7	33	32
M2	28/12/2021	Mid-Ebb	Cloudy	Moderate	8:00	1.2	M	0.6	2			7.03		6.20		14.29		38.3		3.62		21.9		30	
M3	28/12/2021	Mid-Ebb	Fine	Moderate	7:49	0.9	M	0.45	1	0.053	118	7.18	7.20	6.40	6.41	16.76	16.76	37.4	37.8	3.52	3.58	24.8	24.8	34	35
M3	28/12/2021	Mid-Ebb	Fine	Moderate	7:49	0.9	M	0.45	2			7.21		6.42		16.77		38.1		3.63		24.8		36	

Remark

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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	74.3	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	30/12/2021	Mid-Flood	Fine	Moderate	16:48	1.2	M	0.6	1	0.056	19	7.23	7.24	5.44	5.47	19.74	19.76	43.7	43.7	3.91	3.90	14.3	14.3	31	33
M1	30/12/2021	Mid-Flood	Fine	Moderate	16:48	1.2	M	0.6	2			7.24		5.49		19.77		43.6		3.89		14.3		35	
M2	30/12/2021	Mid-Flood	Fine	Moderate	16:29	1	M	0.5	1	0.108	34	7.17	7.16	5.28	5.28	18.64	18.67	39.1	38.9	3.72	3.68	13.6	13.6	34	34
M2	30/12/2021	Mid-Flood	Fine	Moderate	16:29	1	M	0.5	2			7.14		5.27		18.69		38.6		3.64		13.6		33	
M3	30/12/2021	Mid-Flood	Fine	Calm	16:20	0.6	M	0.3	1	0.257	93	7.22	7.23	7.31	7.31	23.97	23.97	40.7	41.1	3.53	3.56	25.7	25.5	27	29
M3	30/12/2021	Mid-Flood	Fine	Calm	16:20	0.6	M	0.3	2			7.24		7.30		23.97		41.4		3.59		25.3		31	
M1	30/12/2021	Mid-Ebb	Fine	Smooth	10:43	0.9	M	0.45	1	0.045	186	7.15	7.15	7.18	7.18	19.57	19.57	40.2	40.3	3.87	3.88	19.9	19.9	7	8
M1	30/12/2021	Mid-Ebb	Fine	Smooth	10:43	0.9	M	0.45	2			7.14		7.17		19.57		40.4		3.89		19.8		8	
M2	30/12/2021	Mid-Ebb	Fine	Smooth	10:57	0.8	M	0.4	1	0.068	313	7.16	7.17	6.54	6.55	19.64	19.63	38.7	38.7	3.64	3.63	19.4	19.4	8	9
M2	30/12/2021	Mid-Ebb	Fine	Smooth	10:57	0.8	M	0.4	2			7.17		6.55		19.62		38.6		3.61		19.4		9	
M3	30/12/2021	Mid-Ebb	Fine	Calm	10:46	0.2	M	0.1	1	0.196	260	7.07	7.08	6.36	6.37	20.37	20.37	50.1	49.7	4.33	4.30	29.0	29.0	42	41
M3	30/12/2021	Mid-Ebb	Fine	Calm	10:46	0.2	M	0.1	2			7.08		6.38		20.36		49.2		4.26		29.1		40	

Remark

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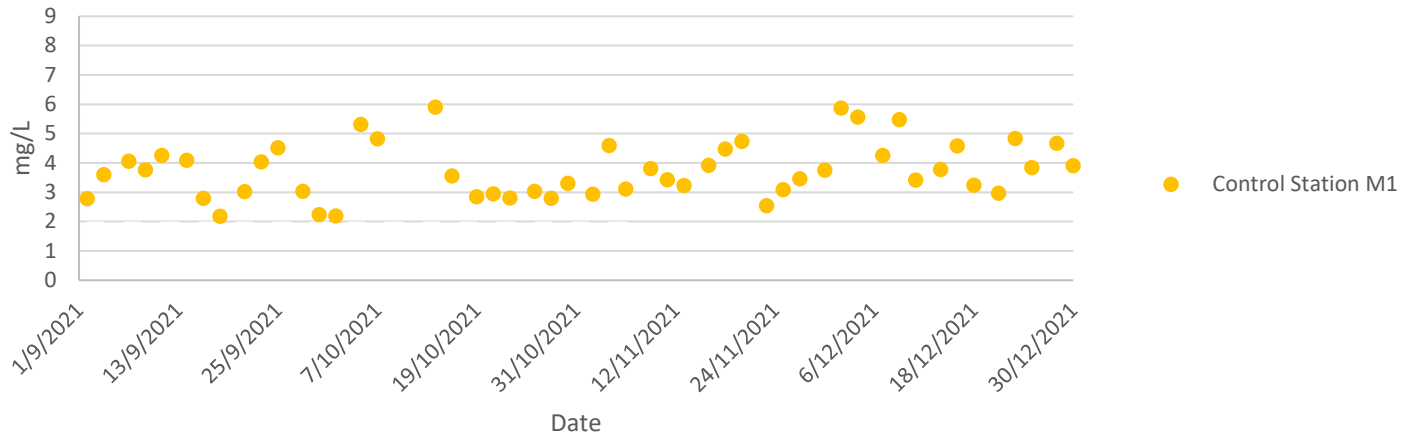
For Flood Tide

Monitoring Location	DO		NTU		SS	
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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

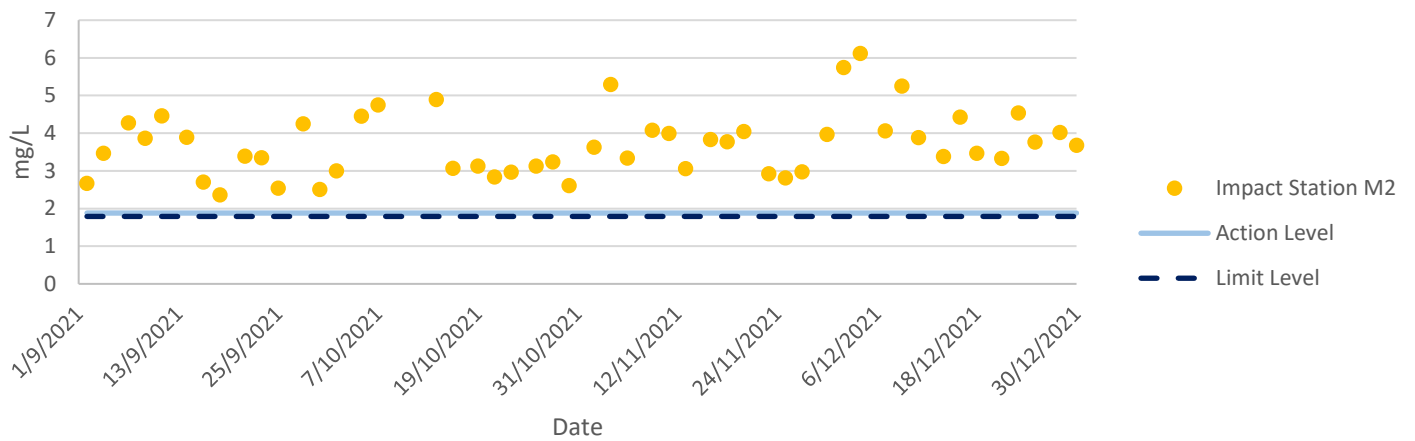
For Ebb Tide

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

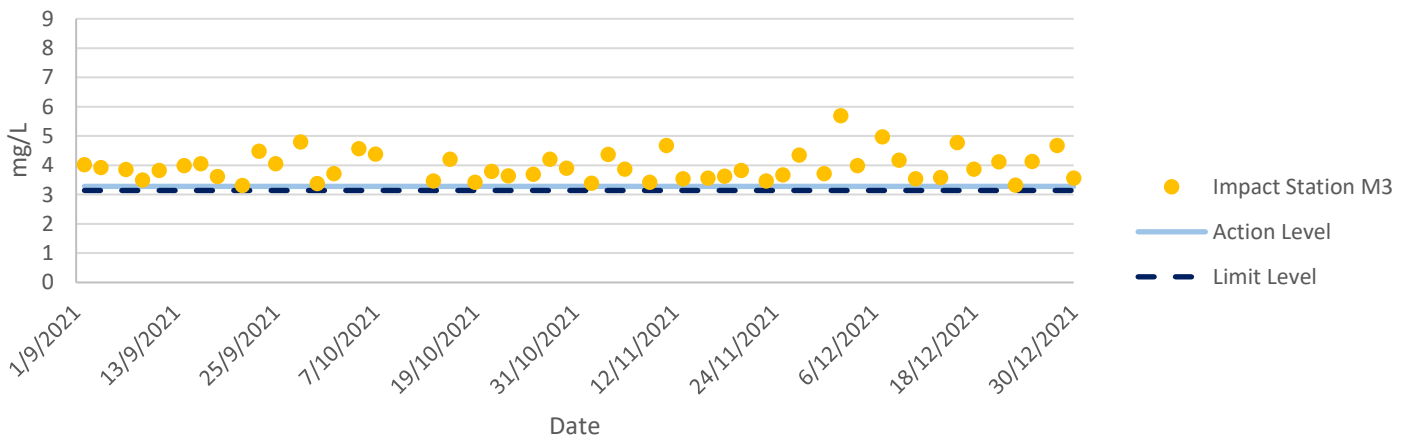
Dissolved Oxygen at Mid-Flood Tide



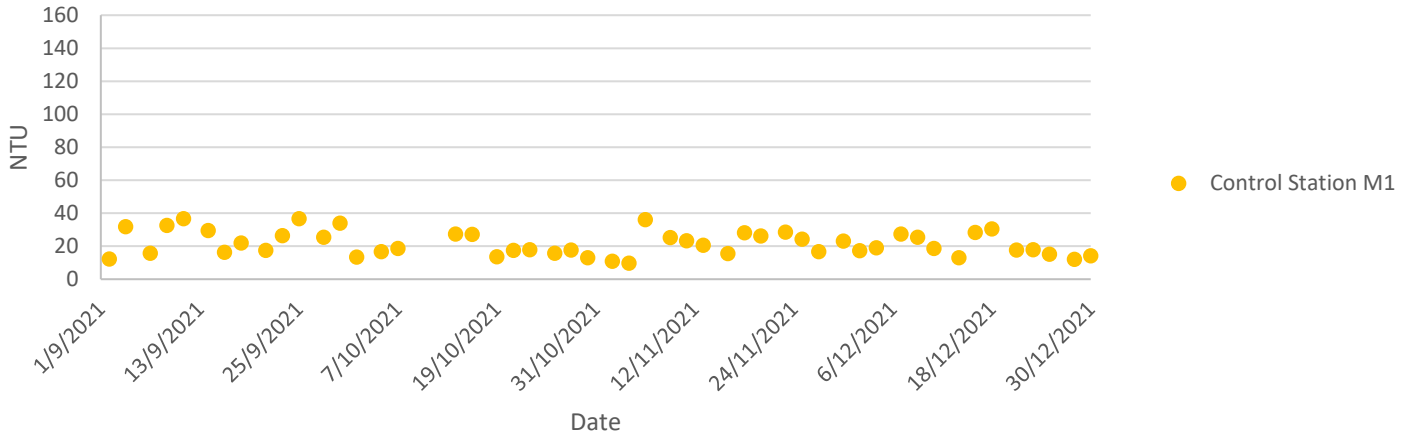
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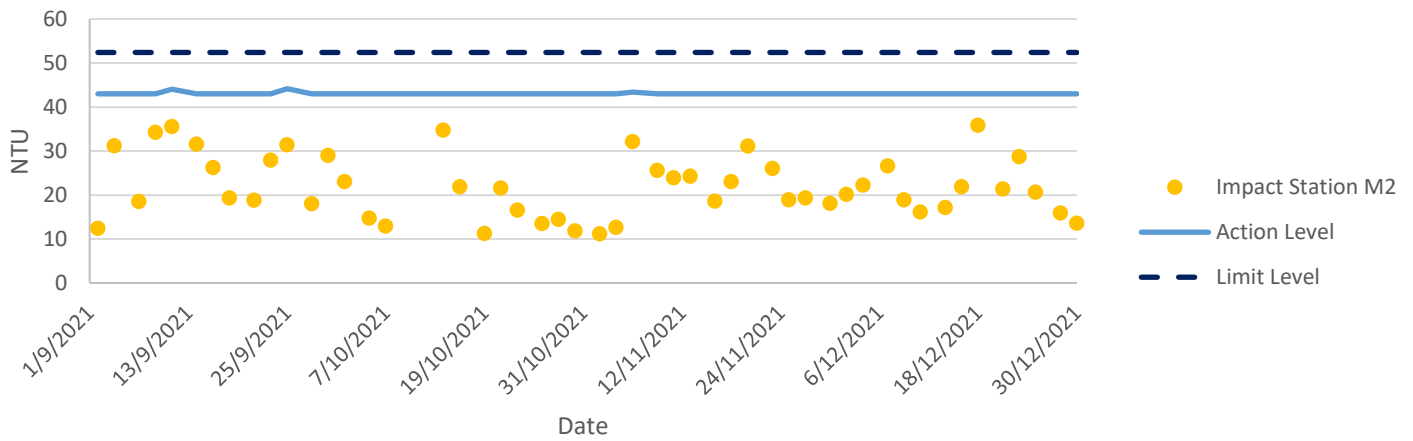
Dissolved Oxygen at Mid-Flood Tide



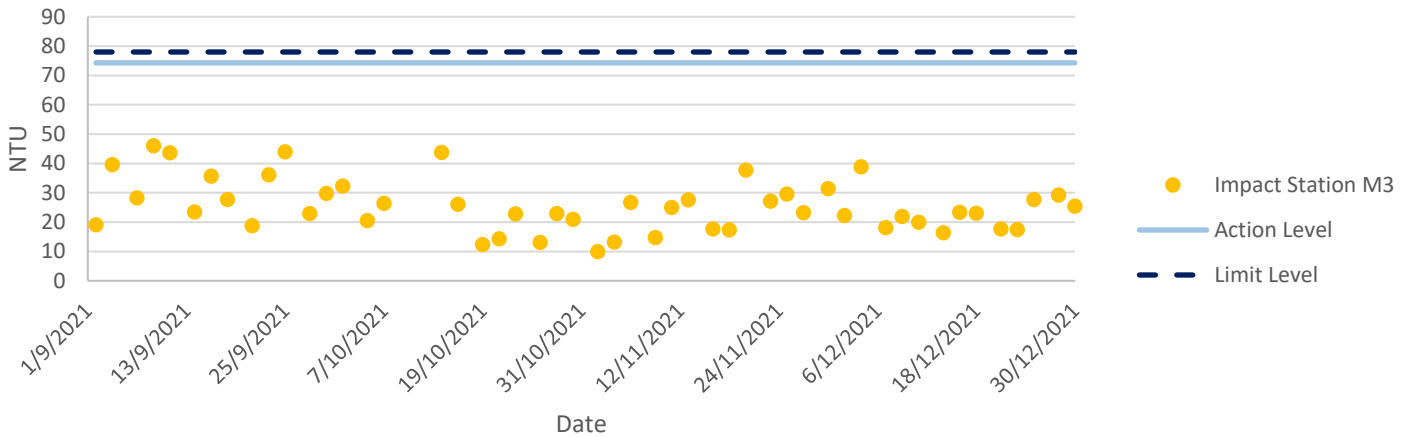
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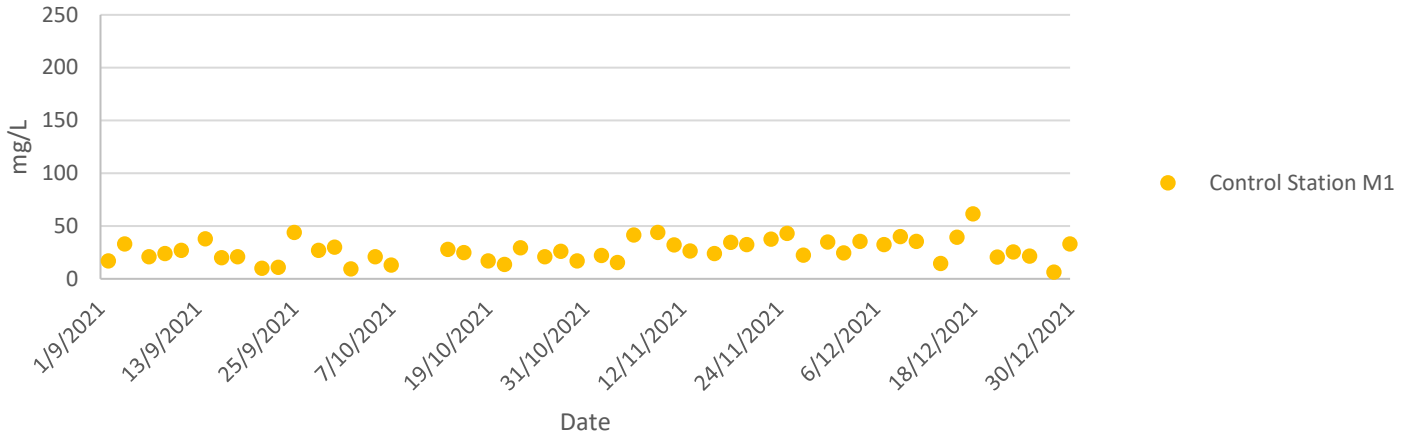
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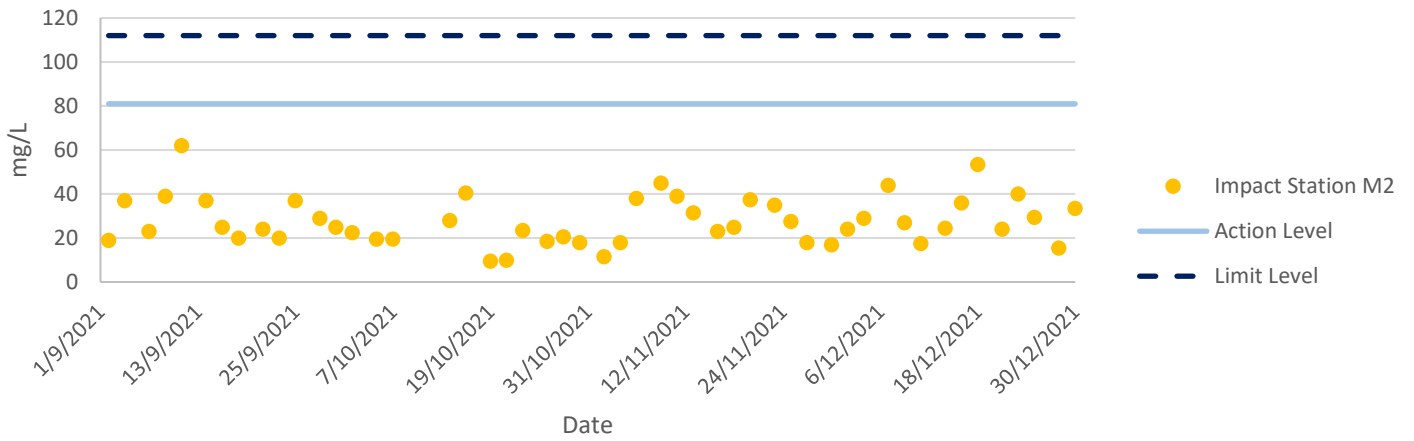
Turbidity at Mid-Flood Tide



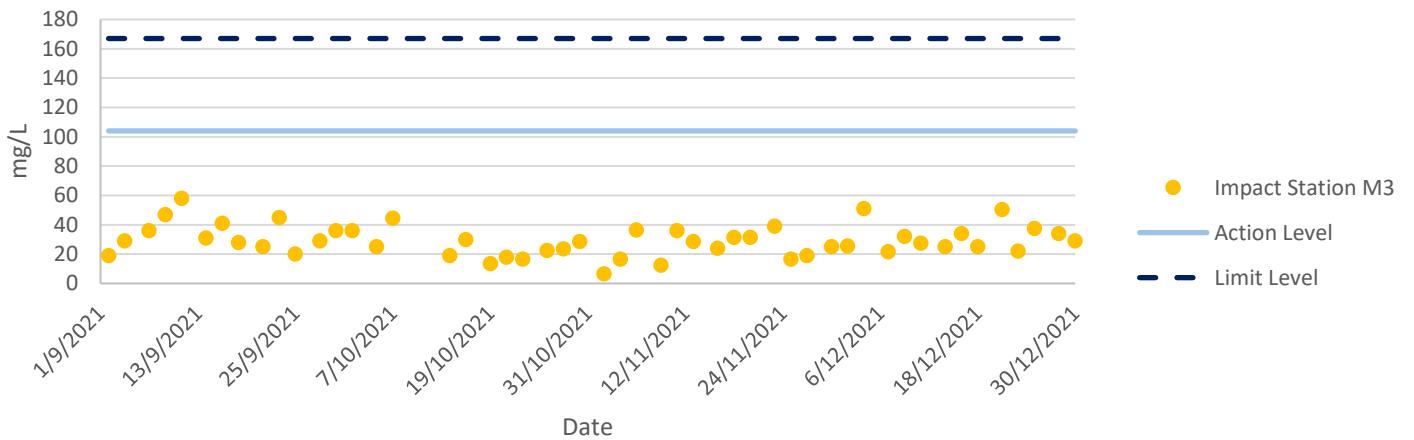
Total Suspended Solids at Mid-Flood Tide



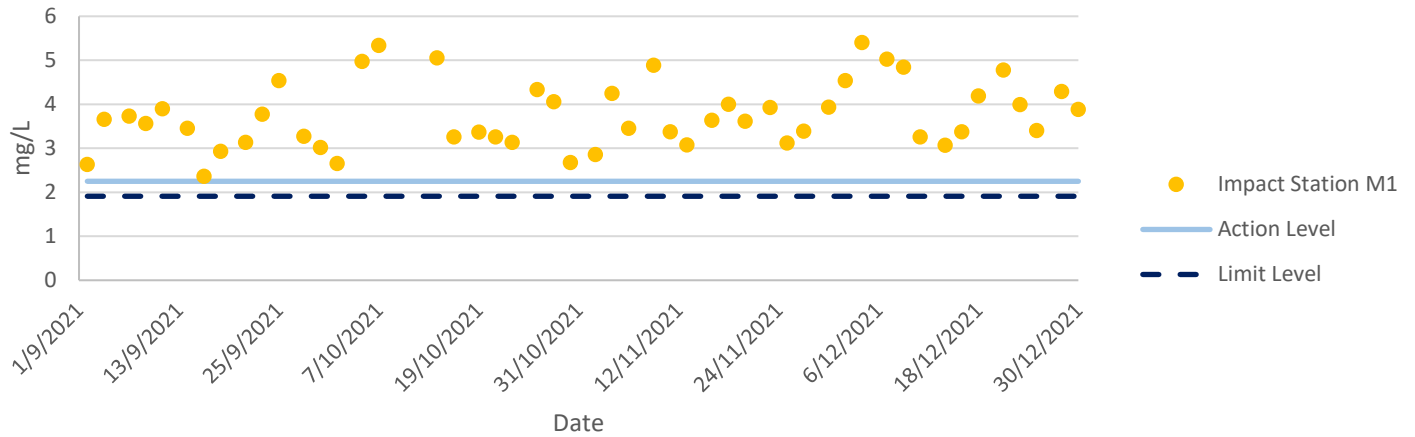
Total Suspended Solids at Mid-Flood Tide



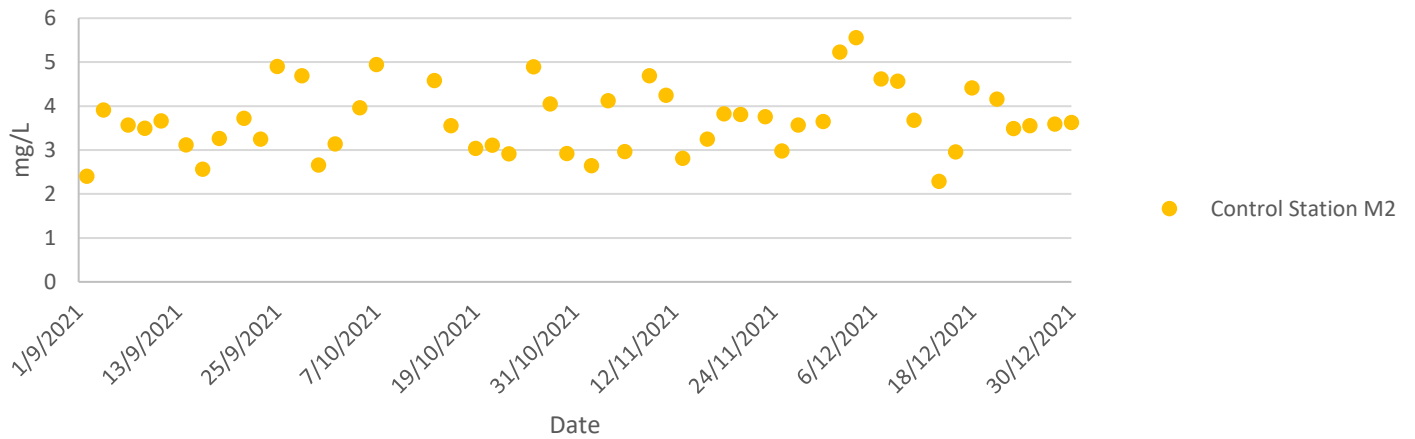
Total Suspended Solids at Mid-Flood Tide



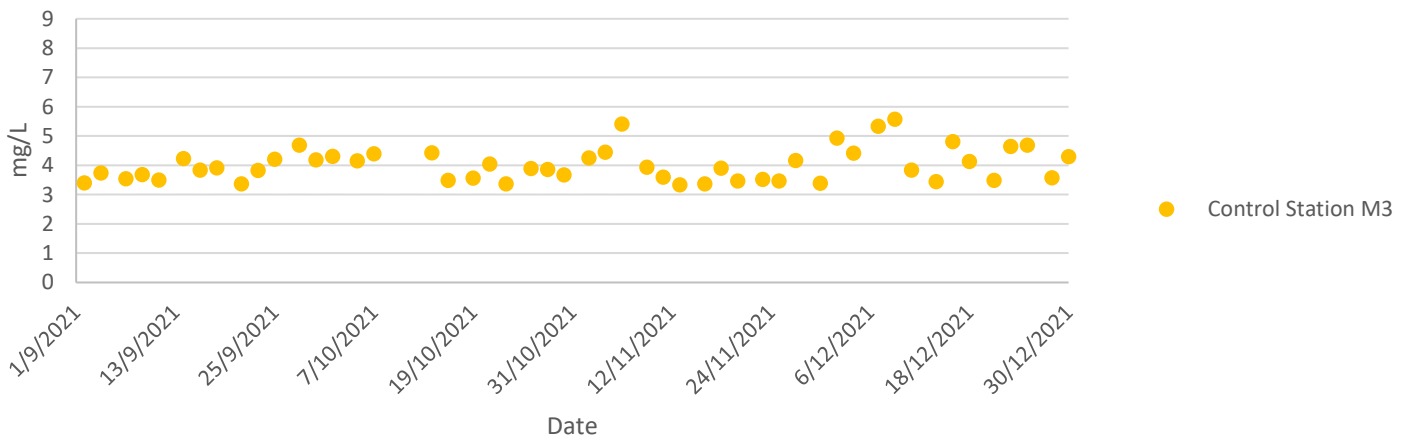
Dissolved Oxygen at Mid-Ebb Tide



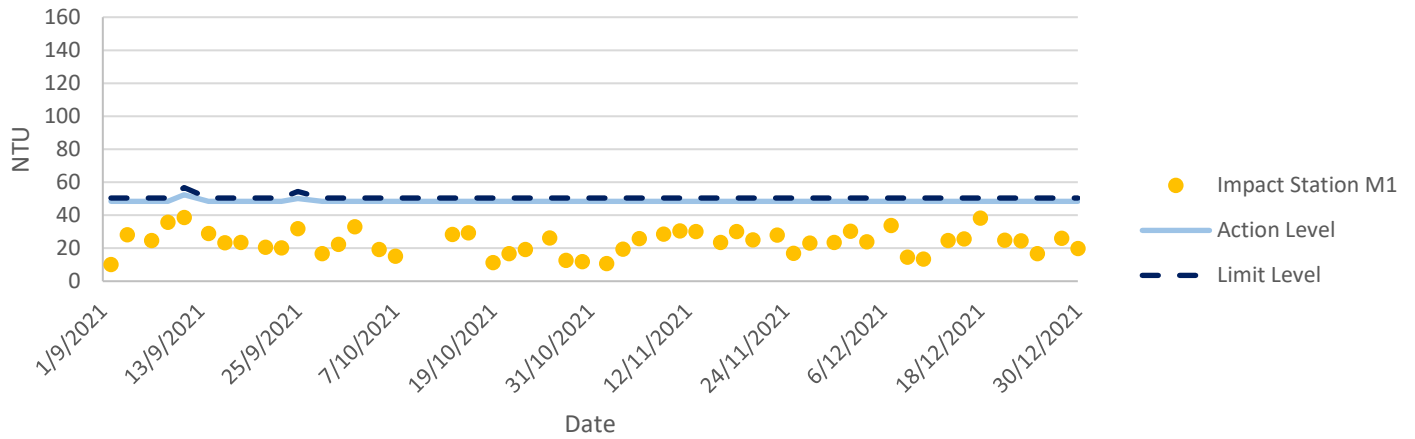
Dissolved Oxygen at Mid-Ebb Tide



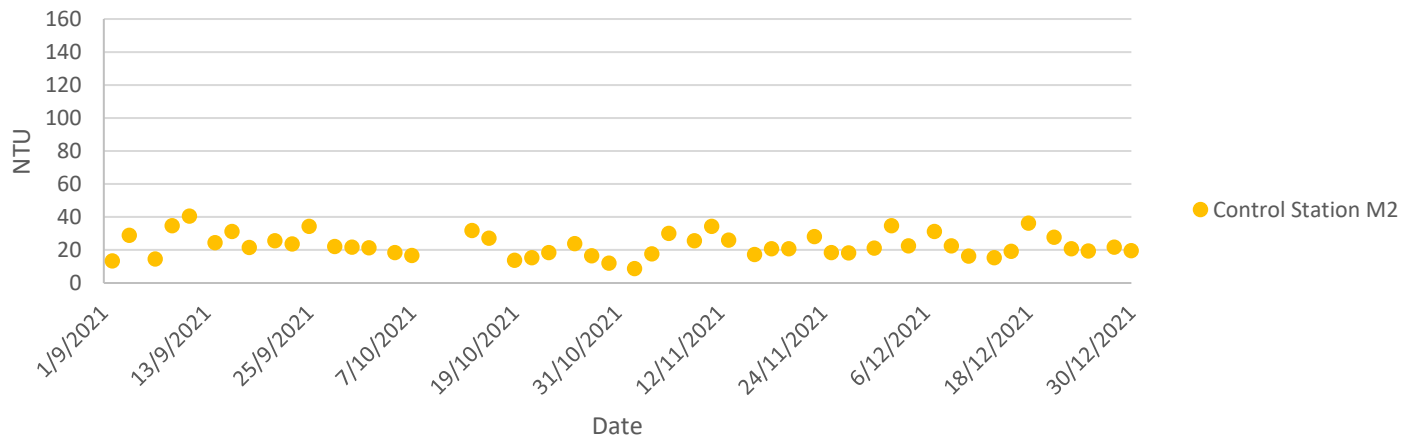
Dissolved Oxygen at Mid-Ebb Tide



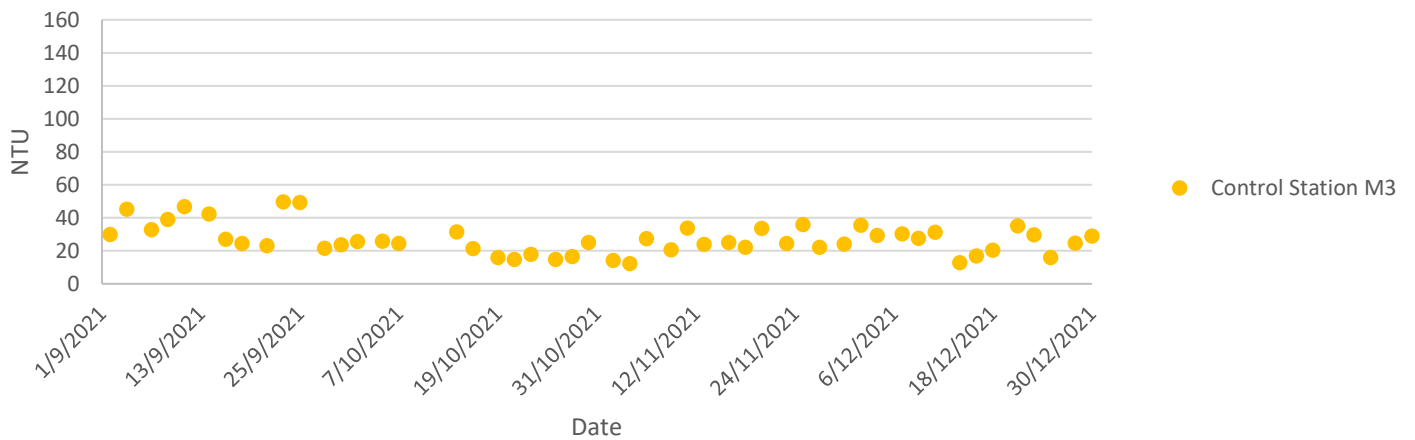
Turbidity at Mid-Ebb Tide



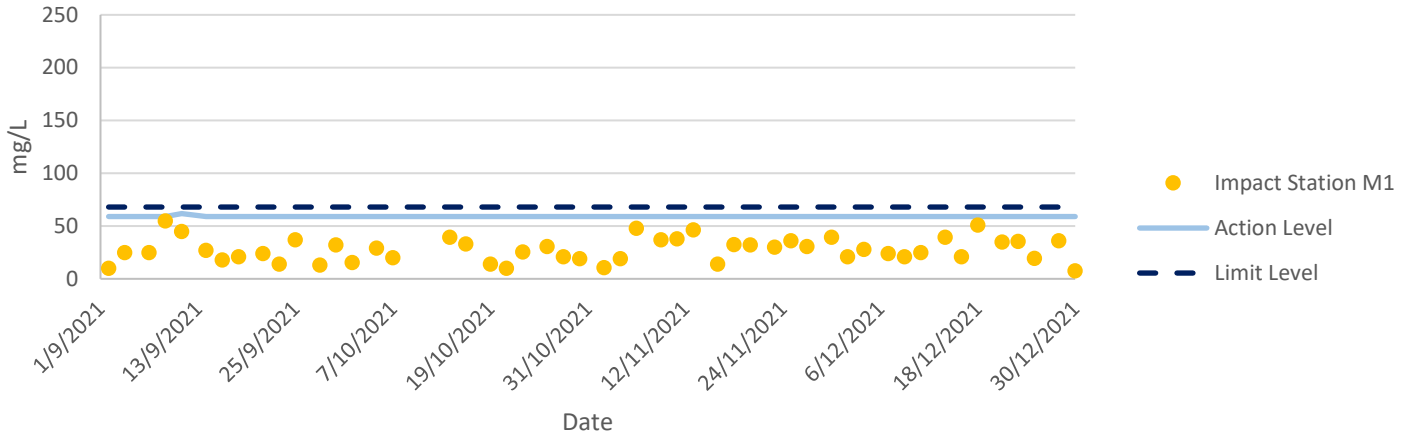
Turbidity at Mid-Ebb Tide



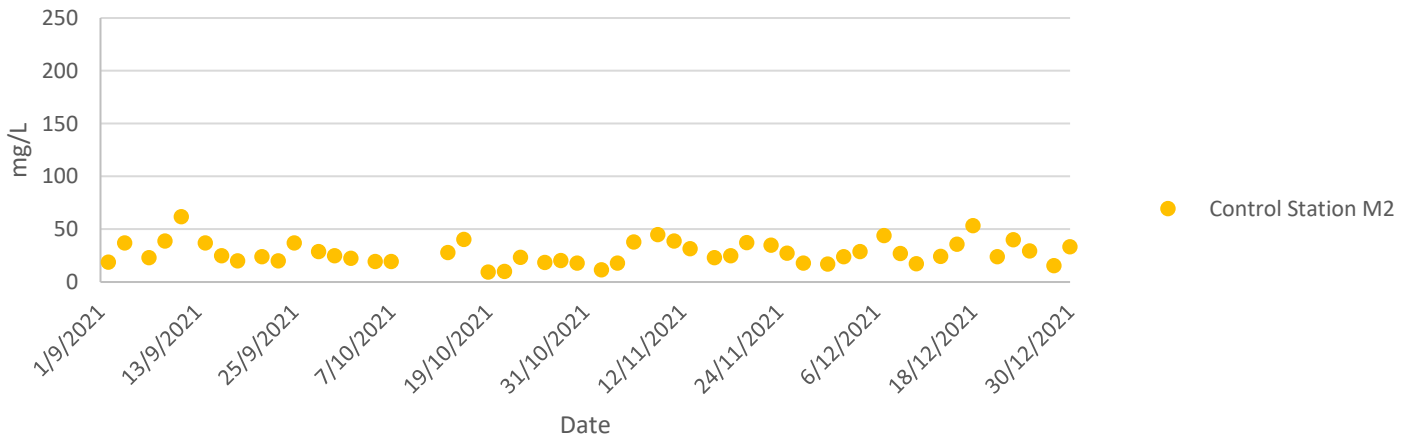
Turbidity at Mid-Ebb Tide



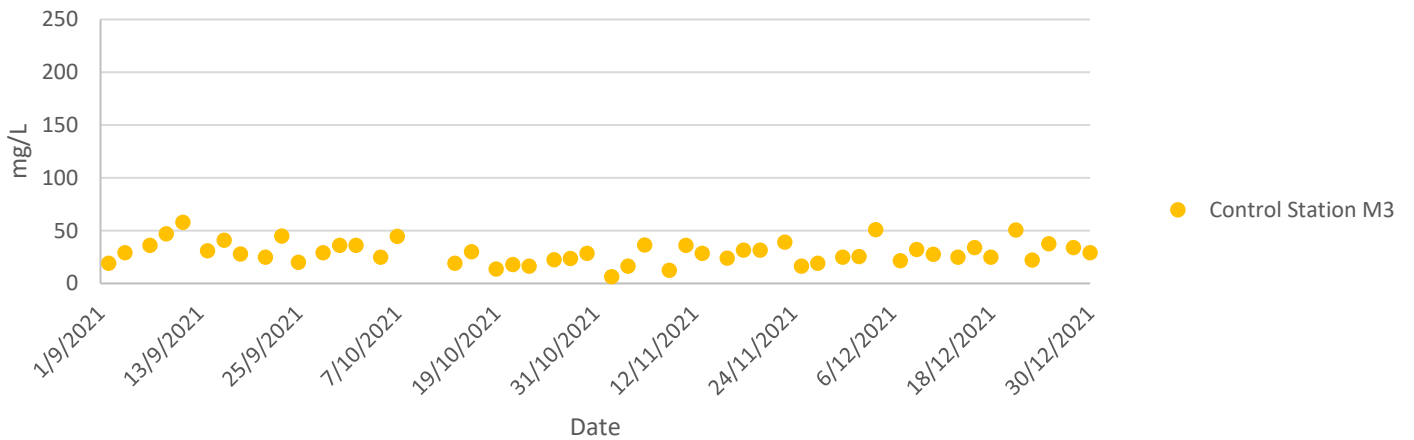
Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids 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 (93 ind.) with majority of its individuals recorded while they were resting on a *Eucalyptus* tree in Nam Sang Wai. On the other hand, species with the least abundance (1 ind.) include the Collared Crow *Corvus torquatus*, Common Kingfisher *Alcedo atthis*, Common Snipe *Gallinago gallinago*, Eastern Yellow Wagtail *Motacilla tschutschensis* and Plain Prinia *Prinia inornata*.

Transect Walk

Among the different species recorded, the Great Egret was noted with the highest abundance (30 ind.) and followed by Little Egret *Egretta garzetta* (20 ind.). On the other hand, the Daurian Redstart *Phoenicurus aureus*, Large-billed Crow *Corvus macrorhynchos*, Northern Shoveler *Anas clypeata*, and White Wagtail *Motacilla alba* 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 (93 ind.). On the other hand, the Collared Crow *Corvus torquatus* had the lowest abundance (1 ind.).

Transect Walk

Among the different species recorded, the Great Egret was noted with the highest abundance (30 ind.) and followed by Little Egret *Egretta garzetta* (20 ind.) while the Northern Shoveler *Anas clypeata* had the lowest recorded abundance (1 ind.).

Appendix F.2 Ecological Bird Monitoring Results (16 and 22 December 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.2020-3)	Species of Conservation Importance	Wetland Dependent	Remarks
16/12/2021	Night time	Dry Season	NSW	Transect	NSW	Modified Watercourse	Great Egret	<i>Ardea alba</i>	30	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Great Egret	<i>Ardea alba</i>	30	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Transect	NSW	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Transect	NSW	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	5	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Transect	NSW	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	20	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Little Egret	<i>Egretta garzetta</i>	25	Common	R	PRC (RC)	-	-	LC	LC	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	7	Common	WV	PRC	-	-	LC	LC	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Transect	NSW	Modified Watercourse	Black-faced Spoonbill	<i>Platalea minor</i>	10	Common	WV	PGC	Class II	EN	EN	EN	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-faced Spoonbill	<i>Platalea minor</i>	3	Common	WV	PGC	Class II	EN	EN	EN	Y	Y	
16/12/2021	Night time	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Pied Avocet	<i>Recurvirostra avosetta</i>	20	Abundant	WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Transect	FLW	Plantation-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	7	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	7	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	7	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	7	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	6	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Crested Myna	<i>Acridotheres cristatellus</i>	1	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	15	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Northern Shoveler	<i>Anas clypeata</i>	4	Abundant	WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Northern Shoveler	<i>Anas clypeata</i>	1	Abundant	WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Eurasian Teal	<i>Anas crecca</i>	4	Common	WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Great Egret	<i>Ardea alba</i>	11	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Great Egret	<i>Ardea alba</i>	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y	

22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	18	Common	R,PM	-	-	-	LC	LC	N	Y
22/12/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	3	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	37	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Transect	NSW	In flight	Large-billed Crow	<i>Corvus macrorhynchos</i>	1	Common	R	-	-	-	LC	LC	N	N
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	In flight	Collared Crow	<i>Corvus torquatus</i>	1	Uncommon	R	LC	-	-	NT	VU	Y	Y
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	1	Introduced	R	-	-	-	LC	LC	N	N
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Azure-winged Magpie	<i>Cyanopica cyanus</i>	3	Introduced	R	-	-	-	LC	LC	N	N
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Intermediate Egret	<i>Egretta intermedia</i>	7	Common	PM	RC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Common Snipe	<i>Gallinago gallinago</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
22/12/2021	Daytime	Dry Season	NSW	Transect	NSW	Plantation-NSW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	5	Abundant	R	-	-	-	LC	LC	N	N
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
22/12/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	1	Common	PM	RC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	4	Common	PM	RC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	11	Common	PM	RC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	8	Common	PM	RC	-	-	LC	LC	Y	Y
22/12/2021	Daytime	Dry Season	FLW	Transect	FLW	In flight	Black Kite	<i>Milvus migrans</i>	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y

22/12/2021	Daytime	Dry Season	NSW	Transect	NSW	In flight	Black Kite	<i>Milvus migrans</i>	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Transect	FLW	In flight	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	24	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	3	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	3	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	3	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	In flight	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Great Cormorant	<i>Phalacrocorax carbo</i>	50	Common	WV	PRC	-	-	LC	LC	Y	Y	Resting
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Developed Area	Daurian Redstart	<i>Phoenicurus aureus</i>	1	Common	WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Dusky Warbler	<i>Phylloscopus fuscatus</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Black-faced Spoonbill	<i>Platalea minor</i>	6	Common	WV	PGC	Class II	EN	EN	EN	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Black-faced Spoonbill	<i>Platalea minor</i>	1	Common	WV	PGC	Class II	EN	EN	EN	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Black-faced Spoonbill	<i>Platalea minor</i>	2	Common	WV	PGC	Class II	EN	EN	EN	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Transect	NSW	Plantation-NSW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	10	Abundant	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Transect	NSW	Plantation-NSW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	17	Abundant	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Reedbed	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Pied Avocet	<i>Recurvirostra avoetia</i>	5	Abundant	WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Pied Avocet	<i>Recurvirostra avoetia</i>	3	Abundant	WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Pied Avocet	<i>Recurvirostra avoetia</i>	2	Abundant	WV	RC	-	-	LC	LC	Y	Y	

22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Pied Avocet	<i>Recurvirostra avosetta</i>	4	Abundant	WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Pied Avocet	<i>Recurvirostra avosetta</i>	9	Abundant	WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Spotted Dove	<i>Spilopelia chinensis</i>	5	Abundant	R	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Red Turtle Dove	<i>Streptopelia tranquebarica</i>	2	Uncommon	PM	-	-	-	LC	LC	N	N	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	1	Common	R	LC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Greenshank	<i>Tringa nebularia</i>	5	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Common Greenshank	<i>Tringa nebularia</i>	1	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Redshank	<i>Tringa totanus</i>	5	Common	PM	RC	-	-	LC	LC	Y	Y	
22/12/2021	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Common Redshank	<i>Tringa totanus</i>	1	Common	PM	RC	-	-	LC	LC	Y	Y	

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 (16 and 22 December 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	43	0.100467	-2.29792	-0.23087	0.530513
<i>Alcedo atthis</i>	1	0.002336	-6.05912	-0.01416	0.085778
<i>Amaurornis phoenicurus</i>	2	0.004673	-5.36598	-0.02507	0.13455
<i>Anas clypeata</i>	4	0.009346	-4.67283	-0.04367	0.204068
<i>Anas crecca</i>	4	0.009346	-4.67283	-0.04367	0.204068
<i>Ardea alba</i>	47	0.109813	-2.20898	-0.24257	0.535841
<i>Ardea cinerea</i>	13	0.030374	-3.49417	-0.10613	0.370842
<i>Ardeola bacchus</i>	9	0.021028	-3.8619	-0.08121	0.313618
<i>Bubulcus coromandus</i>	18	0.042056	-3.16875	-0.13327	0.422284
<i>Chroicocephalus ridibundus</i>	37	0.086449	-2.44821	-0.21164	0.518148
<i>Corvus torquatus</i>	1	0.002336	-6.05912	-0.01416	0.085778
<i>Cyanopica cyanus</i>	4	0.009346	-4.67283	-0.04367	0.204068
<i>Egretta garzetta</i>	36	0.084112	-2.4756	-0.20823	0.515491
<i>Egretta intermedia</i>	7	0.016355	-4.11321	-0.06727	0.276705
<i>Gallinago gallinago</i>	1	0.002336	-6.05912	-0.01416	0.085778
<i>Garrulax perspicillatus</i>	3	0.007009	-4.96051	-0.03477	0.172477
<i>Gracupica nigricollis</i>	2	0.004673	-5.36598	-0.02507	0.13455
<i>Himantopus himantopus</i>	15	0.035047	-3.35107	-0.11744	0.393564
<i>Motacilla alba</i>	4	0.009346	-4.67283	-0.04367	0.204068
<i>Motacilla tschutschensis</i>	1	0.002336	-6.05912	-0.01416	0.085778
<i>Phalacrocorax carbo</i>	93	0.21729	-1.52652	-0.3317	0.506345
<i>Phylloscopus fuscatus</i>	3	0.007009	-4.96051	-0.03477	0.172477
<i>Platalea minor</i>	12	0.028037	-3.57422	-0.10021	0.358178
<i>Prinia inornata</i>	1	0.002336	-6.05912	-0.01416	0.085778
<i>Pycnonotus sinensis</i>	5	0.011682	-4.44969	-0.05198	0.231305
<i>Recurvirostra avosetta</i>	34	0.079439	-2.53276	-0.2012	0.509594
<i>Spilopelia chinensis</i>	9	0.021028	-3.8619	-0.08121	0.313618
<i>Streptopelia tranquebarica</i>	2	0.004673	-5.36598	-0.02507	0.13455
<i>Tachybaptus ruficollis</i>	5	0.011682	-4.44969	-0.05198	0.231305
<i>Tringa nebularia</i>	6	0.014019	-4.26736	-0.05982	0.255286
<i>Tringa totanus</i>	6	0.014019	-4.26736	-0.05982	0.255286
Total	428	1	-131.355	-2.7268	8.531688
Richness	31				
SS	8.531688				
SQ	7.435416				
H	2.7268				
S²H	0.002643				

Appendix F.3.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (16 and 22 December 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	4	0.012158	-4.40976	-0.05361	0.236426
<i>Anas crecca</i>	4	0.012158	-4.40976	-0.05361	0.236426
<i>Ardea alba</i>	47	0.142857	-1.94591	-0.27799	0.540938
<i>Ardea cinerea</i>	13	0.039514	-3.23111	-0.12767	0.412525
<i>Ardeola bacchus</i>	9	0.027356	-3.59883	-0.09845	0.354299
<i>Chroicocephalus ridibundus</i>	37	0.112462	-2.18514	-0.24575	0.536988
<i>Corvus torquatus</i>	1	0.00304	-5.79606	-0.01762	0.10211
<i>Egretta garzetta</i>	36	0.109422	-2.21254	-0.2421	0.535659
<i>Egretta intermedia</i>	7	0.021277	-3.85015	-0.08192	0.315397
<i>Himantopus himantopus</i>	15	0.045593	-3.08801	-0.14079	0.434762
<i>Phalacrocorax carbo</i>	93	0.282675	-1.26346	-0.35715	0.451241
<i>Platalea minor</i>	12	0.036474	-3.31115	-0.12077	0.399893
<i>Recurvirostra avosetta</i>	34	0.103343	-2.2697	-0.23456	0.532376
<i>Tachybaptus ruficollis</i>	5	0.015198	-4.18662	-0.06363	0.26638
<i>Tringa nebularia</i>	6	0.018237	-4.0043	-0.07303	0.292421
<i>Tringa totanus</i>	6	0.018237	-4.0043	-0.07303	0.292421
Total	329	1	-53.7668	-2.26167	5.940261
Richness	16				
SS	5.940261				
SQ	5.115137				
H	2.26167				
S²_H	0.002577				

Appendix F.3.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (16 and 22 December 2021)

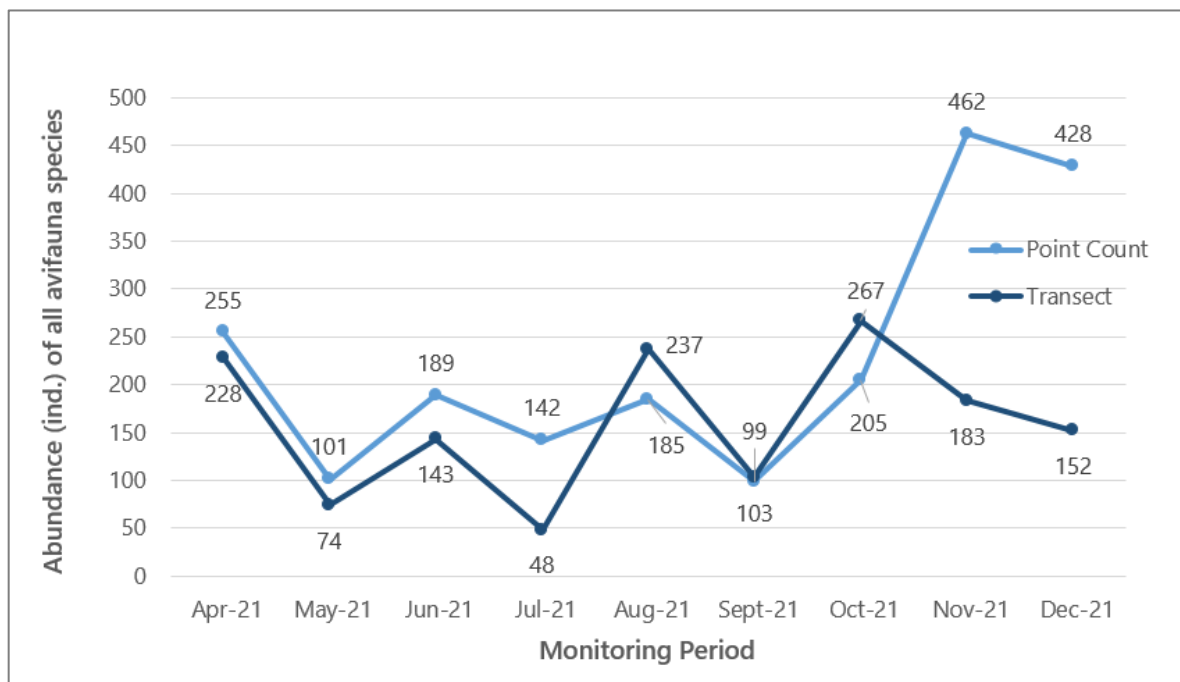
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	9	0.059211	-2.82666	-0.16737	0.473091
<i>Anas clypeata</i>	1	0.006579	-5.02388	-0.03305	0.166049
<i>Ardea alba</i>	30	0.197368	-1.62268	-0.32027	0.519691
<i>Ardea cinerea</i>	5	0.032895	-3.41444	-0.11232	0.383501
<i>Ardeola bacchus</i>	5	0.032895	-3.41444	-0.11232	0.383501
<i>Chroicocephalus ridibundus</i>	3	0.019737	-3.92527	-0.07747	0.3041
<i>Corvus macrorhynchos</i>	1	0.006579	-5.02388	-0.03305	0.166049
<i>Egretta garzetta</i>	20	0.131579	-2.02815	-0.26686	0.541235
<i>Garrulax perspicillatus</i>	5	0.032895	-3.41444	-0.11232	0.383501
<i>Himantopus himantopus</i>	9	0.059211	-2.82666	-0.16737	0.473091
<i>Milvus migrans</i>	4	0.026316	-3.63759	-0.09573	0.348211
<i>Motacilla alba</i>	1	0.006579	-5.02388	-0.03305	0.166049
<i>Phalacrocorax carbo</i>	5	0.032895	-3.41444	-0.11232	0.383501
<i>Phoenicurus aureus</i>	1	0.006579	-5.02388	-0.03305	0.166049
<i>Phylloscopus fuscatus</i>	2	0.013158	-4.33073	-0.05698	0.24678
<i>Platalea minor</i>	10	0.065789	-2.7213	-0.17903	0.487201
<i>Prinia inornata</i>	2	0.013158	-4.33073	-0.05698	0.24678
<i>Pycnonotus jocosus</i>	10	0.065789	-2.7213	-0.17903	0.487201

<i>Pycnonotus sinensis</i>	17	0.111842	-2.19067	-0.24501	0.536733
<i>Recurvirostra avosetta</i>	9	0.059211	-2.82666	-0.16737	0.473091
<i>Spilopelia chinensis</i>	3	0.019737	-3.92527	-0.07747	0.3041
Total	152	1	-73.6669	-2.63842	7.6395
Richness	21				
SS	7.6395				
SQ	6.961255				
H	2.63842				
S²_H	0.004895				

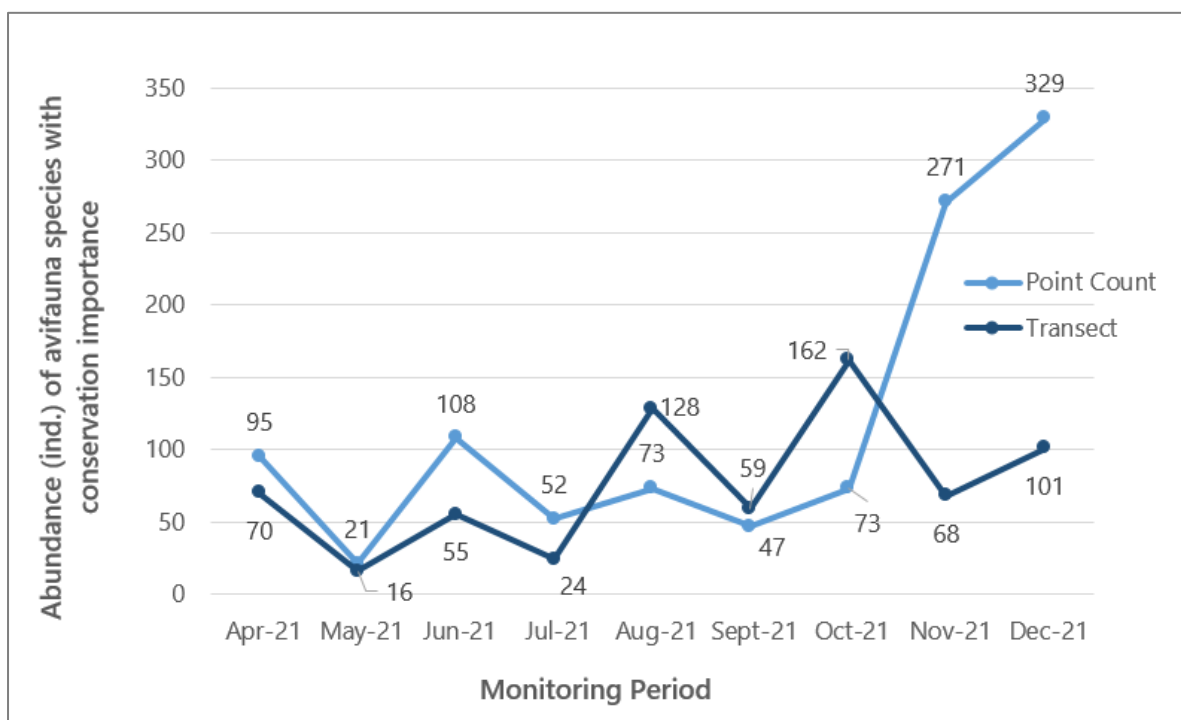
Appendix F.3.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (16 and 22 December 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	1	0.009901	-4.61512	-0.04569	0.210885
<i>Ardea alba</i>	30	0.29703	-1.21392	-0.36057	0.437706
<i>Ardea cinerea</i>	5	0.049505	-3.00568	-0.1488	0.447234
<i>Ardeola bacchus</i>	5	0.049505	-3.00568	-0.1488	0.447234
<i>Chroicocephalus ridibundus</i>	3	0.029703	-3.51651	-0.10445	0.367302
<i>Egretta garzetta</i>	20	0.19802	-1.61939	-0.32067	0.519291
<i>Himantopus himantopus</i>	9	0.089109	-2.4179	-0.21546	0.52095
<i>Milvus migrans</i>	4	0.039604	-3.22883	-0.12787	0.412884
<i>Phalacrocorax carbo</i>	5	0.049505	-3.00568	-0.1488	0.447234
<i>Platalea minor</i>	10	0.09901	-2.31254	-0.22896	0.529487
<i>Recurvirostra avosetta</i>	9	0.089109	-2.4179	-0.21546	0.52095
Total	101	1	-30.3591	-2.06553	4.861157
Richness	11				
SS	4.861157				
SQ	4.266398				
H	2.06553				
S²_H	0.006379				

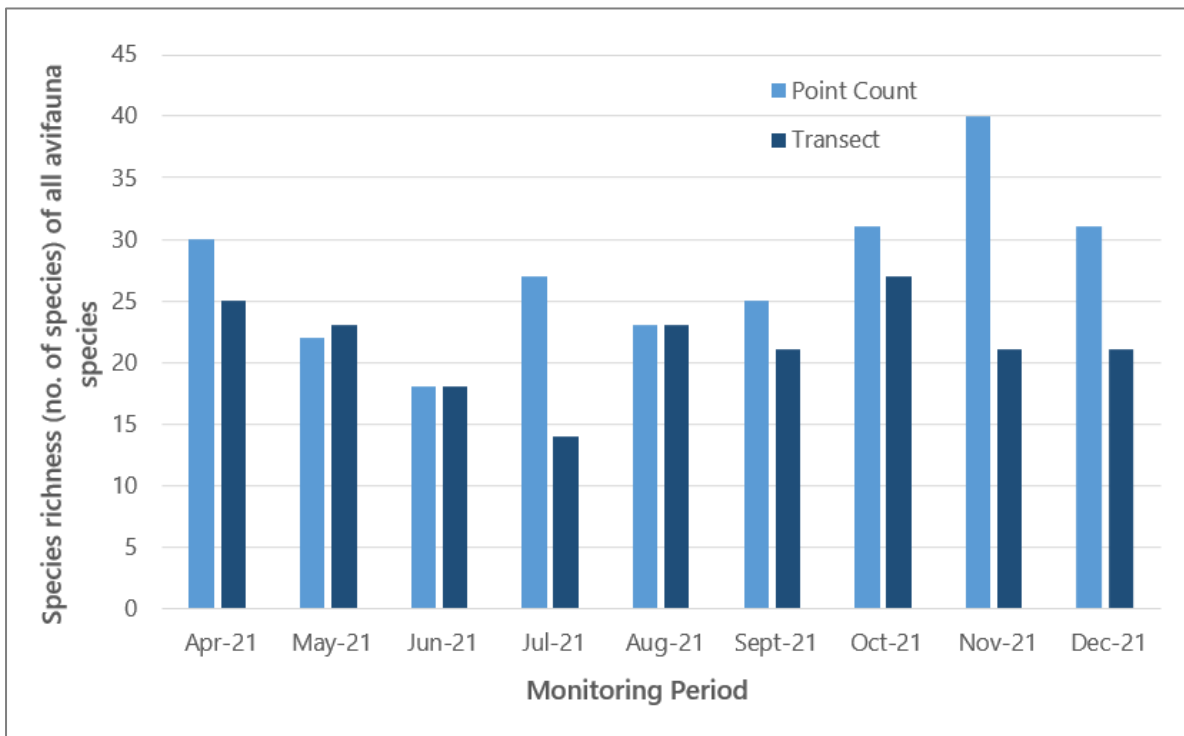
Appendix F.4.1 Abundance of all avifauna species throughout the monitoring period



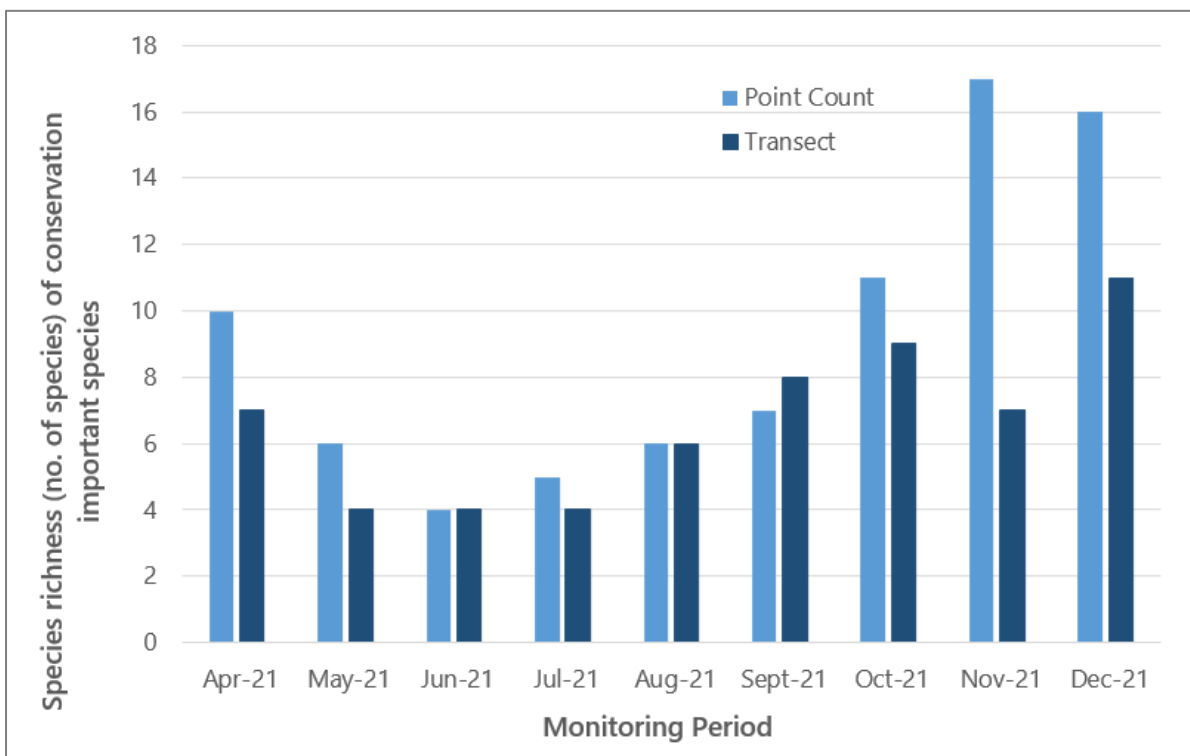
Appendix F.4.2 Abundance of avifauna species with conservation importance throughout the monitoring period



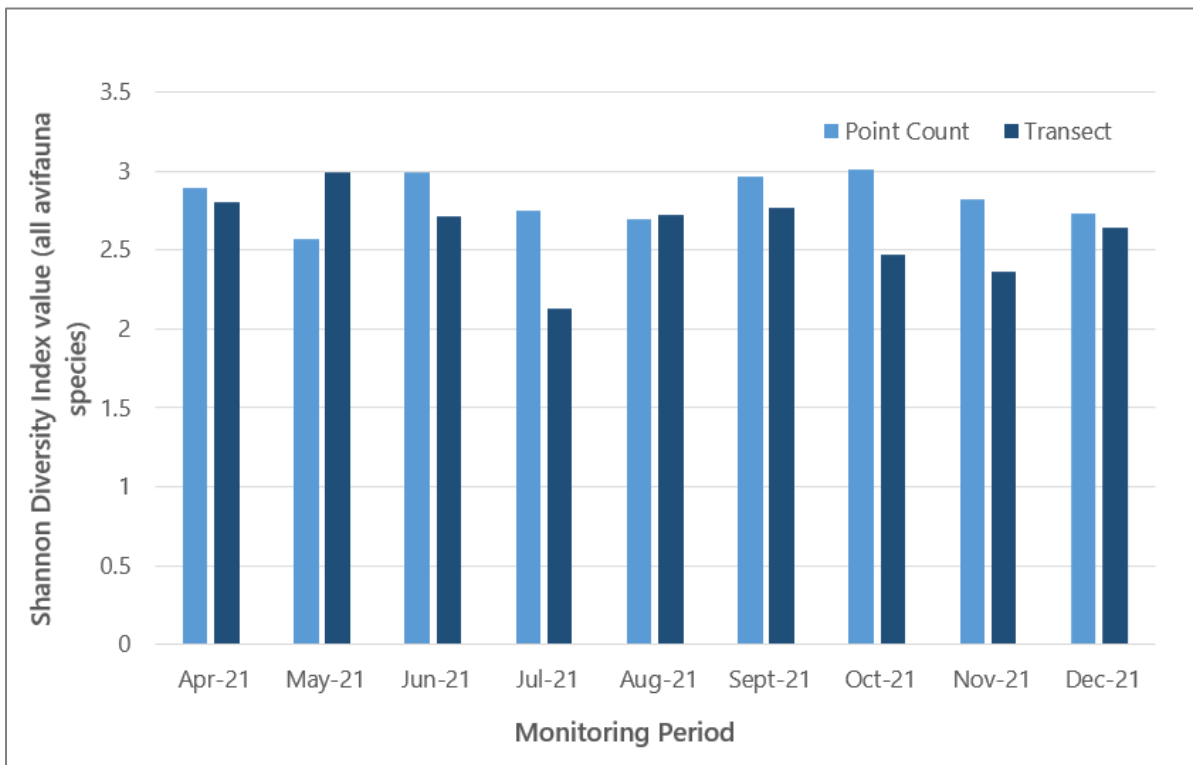
Appendix F.5.1 Species richness of all avifauna species throughout the monitoring period



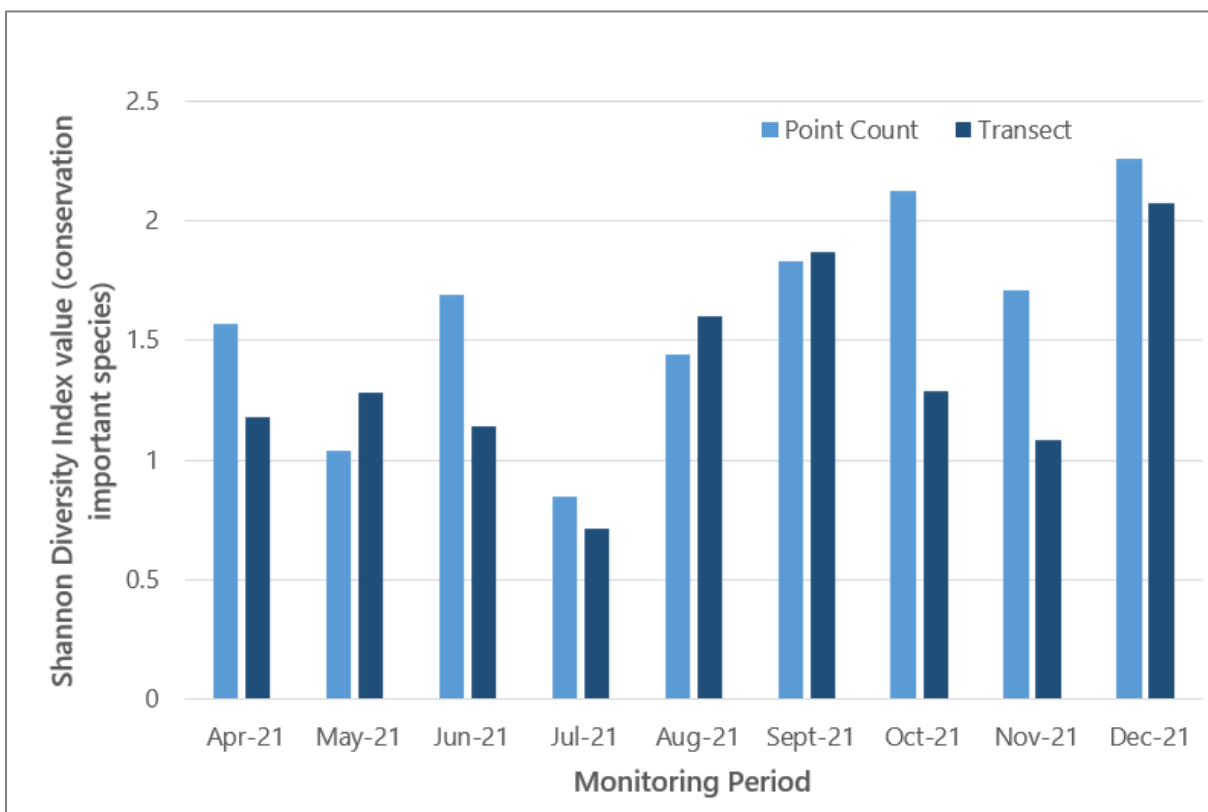
Appendix F.5.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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	December 2016	December 2021
N	81	80
df	80	79
M	6.54	5.35
SS	10256.1	5590.2
S ²	128.2	70.76
t-value	0.76	
p-value	0.45	
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.7.2 Abundance of avifauna species with conservation importance – Point Count Method

Months	December 2016	December 2021
N	51	53
df	50	52
M	9.06	6.21
SS	9306.82	5012.72
S ²	186.14	96.4
t-value	1.23	
p-value	0.22	
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:

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

Output: Species diversity of all avifauna species – Transect Walk Method

Months	December 2016	December 2021
Total	85	152
N	22	21
H	2.67	2.64
S ² _H	0.011	0.01
t	0.26	
df	163	
Crit	1.97	
p	0.79	
CI	0.21	0.14
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		