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## Air Quality Monitoring Results

**Air Quality Monitoring Results 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 ( $\text{ug}/\text{m}^3$ )	Limit Level ( $\text{ug}/\text{m}^3$ )
			1st Measurement	2nd Measurement	3rd Measurement		
3-Mar-23	Fine	8:35	70	95	102	291	500
9-Mar-23	Fine	8:31	123	137	126		
15-Mar-23	Fine	8:38	77	81	95		
21-Mar-23	Cloudy	8:48	74	81	84		
27-Mar-23	Cloudy	8:30	56	60	67		
		Min	56				
		Max	137				
		Average	89				

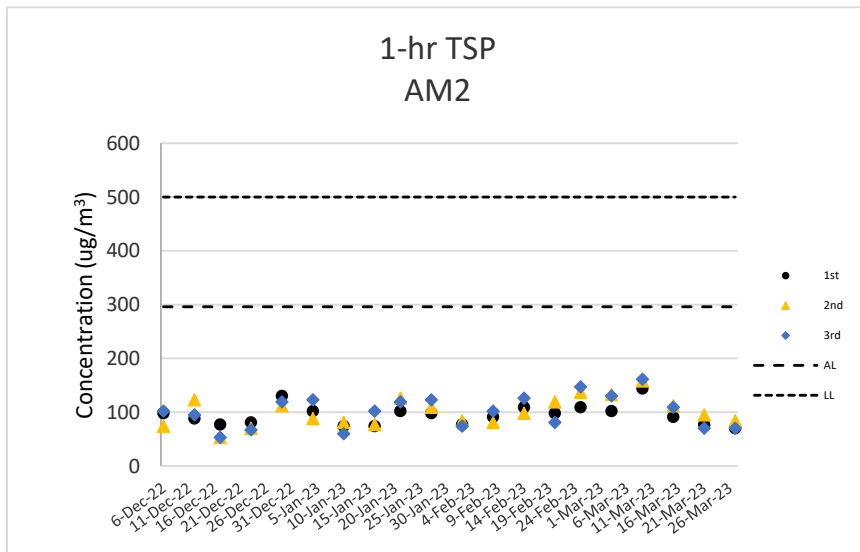
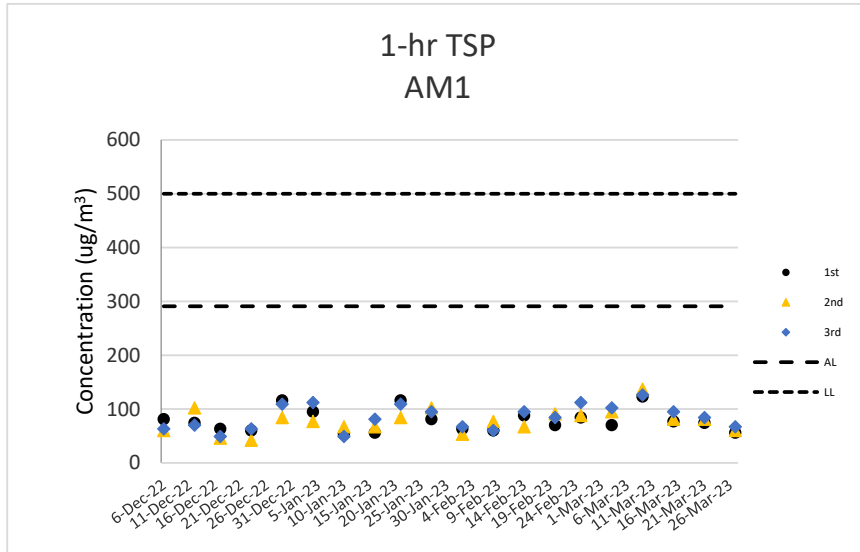
**AM2 - Squatter house at the west of Yuen Long STW**

Date	Weather Condition	Start Time	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\text{ug}/\text{m}^3$ )	Limit Level ( $\text{ug}/\text{m}^3$ )
			1st Measurement	2nd Measurement	3rd Measurement		
3-Mar-23	Fine	8:46	102	133	130	296	500
9-Mar-23	Fine	8:40	144	158	161		
15-Mar-23	Fine	8:49	91	112	109		
21-Mar-23	Cloudy	8:39	77	95	70		
27-Mar-23	Cloudy	8:39	70	84	70		
		Min	70				
		Max	161				
		Average	107				

Note:

Underline: Exceedance of Action Level

**Underline and Bold**: Exceedance of Limit Level



**Air Quality Monitoring Results**

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## Noise Monitoring Results

**Noise Monitoring Results 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 <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
3-Mar-23	10:19	54	56	51	0.2	Fine	75
9-Mar-23	10:43	54	56	52	0.1	Fine	75
15-Mar-23	10:11	52	55	51	0.1	Fine	75
21-Mar-23	11:10	53	55	50	0.1	Cloudy	75
27-Mar-23	10:10	52	54	51	0.1	Cloudy	75
	<b>Max</b>	54					
	<b>Min</b>	52					

**CM2 - Squatter house to the west of YLSTW**

Date	Start Time	L <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
3-Mar-23	8:53	64	66	57	0.2	Fine	75
9-Mar-23	8:46	63	66	57	0.3	Fine	75
15-Mar-23	8:55	63	65	56	0.3	Fine	75
21-Mar-23	13:03	64	67	57	0.1	Cloudy	75
27-Mar-23	8:44	64	66	57	0.2	Cloudy	75
	<b>Max</b>	64					
	<b>Min</b>	63					

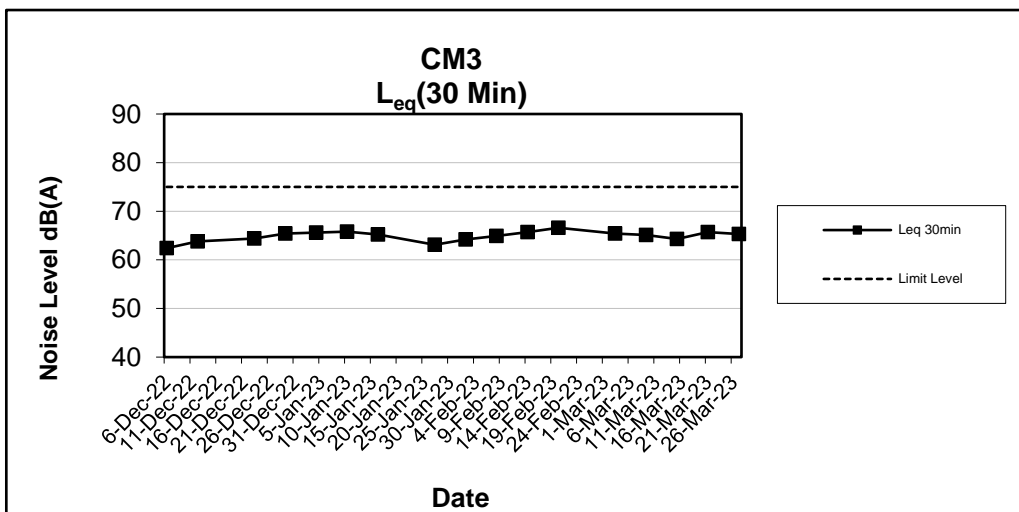
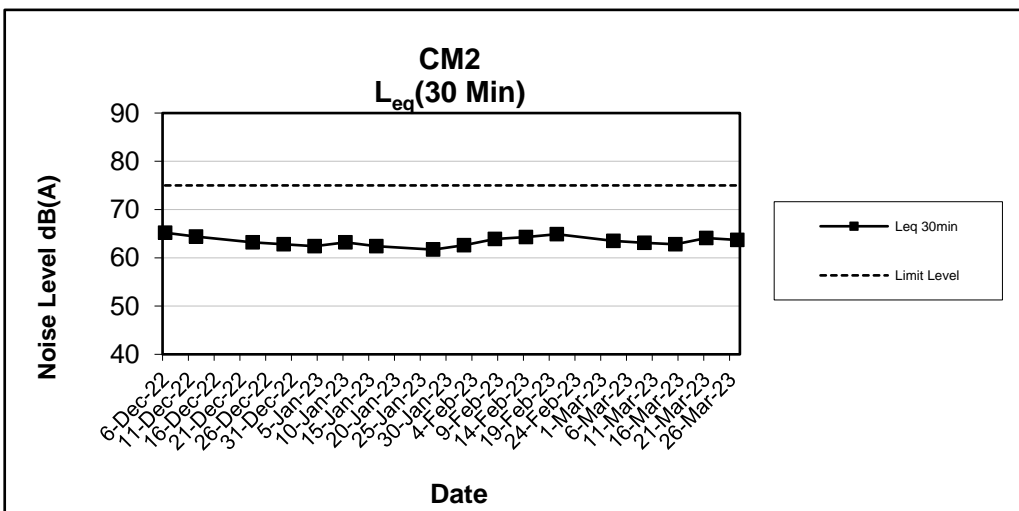
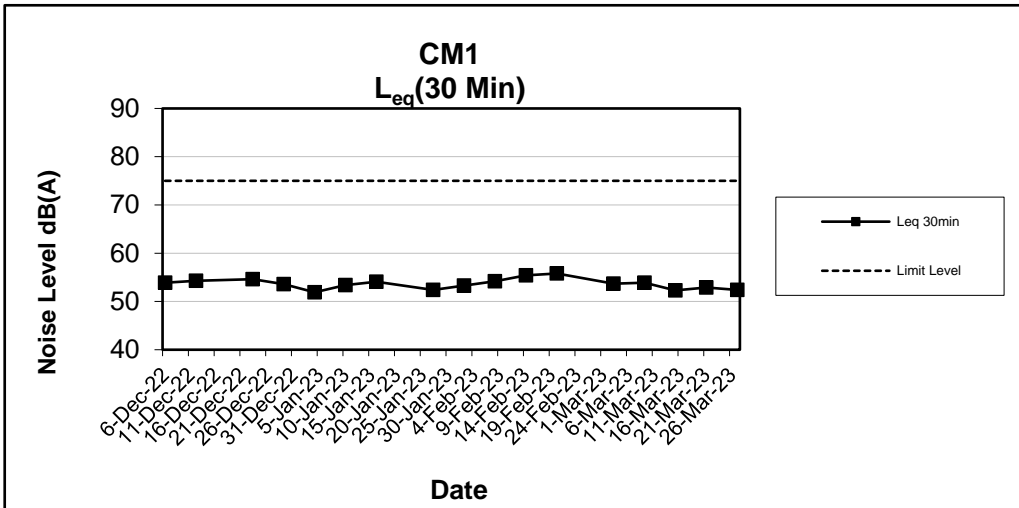
**CM3 - Squatter house to the east of YLSTW**

Date	Start Time	L <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
3-Mar-23	13:03	65	68	58	0.3	Fine	75
9-Mar-23	13:05	65	68	58	0.2	Fine	75
15-Mar-23	11:29	64	67	57	0.2	Fine	75
21-Mar-23	9:42	66	69	58	0.2	Cloudy	75
27-Mar-23	11:29	65	68	58	0.2	Cloudy	75
	<b>Max</b>	66					
	<b>Min</b>	64					

Note:

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

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



**Noise Monitoring Results**

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## Water Quality Monitoring Results

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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	2/3/2023	Mid-Flood	Fine	Smooth	10:32	2.4	M	1.2	1	0.356	246	7.36	7.37	11.65	11.64	20.82	20.82	71.7	71.5	6.02	6.00	17.0	17.1	25	25
M1	2/3/2023	Mid-Flood	Fine	Smooth	10:32	2.4	M	1.2	2			7.37		11.63		20.81		71.2		5.98		17.2		25	
M2	2/3/2023	Mid-Flood	Fine	Smooth	10:54	1.2	M	0.6	1	0.341	293	7.52	7.52	10.83	10.84	21.29	21.30	65.4	65.1	5.48	5.45	19.9	20.2	30	29
M2	2/3/2023	Mid-Flood	Fine	Smooth	10:54	1.2	M	0.6	2			7.51		10.84		21.31		64.7		5.42		20.4		28	
M3	2/3/2023	Mid-Flood	Fine	Moderate	10:41	1.4	M	0.7	1	0.066	196	7.23	7.24	10.29	10.22	21.04	21.07	58.0	57.9	4.87	4.85	25.9	26.0	30	31
M3	2/3/2023	Mid-Flood	Fine	Moderate	10:41	1.4	M	0.7	2			7.24		10.14		21.09		57.7		4.83		26.0		31	
M1	2/3/2023	Mid-Ebb	Fine	Smooth	23:31	2.2	M	1.1	1	0.398	219	7.56	7.56	9.36	9.36	21.78	21.78	59.2	59.6	4.94	4.96	23.2	23.0	30	29
M1	2/3/2023	Mid-Ebb	Fine	Smooth	23:31	2.2	M	1.1	2			7.55		9.35		21.78		59.9		4.98		22.7		28	
M2	2/3/2023	Mid-Ebb	Fine	Smooth	23:12	1.2	M	0.6	1	0.375	234	7.44	7.44	8.76	8.77	22.03	22.04	58.5	58.3	4.89	4.88	15.6	15.4	19	20
M2	2/3/2023	Mid-Ebb	Fine	Smooth	23:12	1.2	M	0.6	2			7.43		8.77		22.04		58.1		4.87		15.2		20	
M3	2/3/2023	Mid-Ebb	Fine	Moderate	23:23	1.2	M	0.6	1	0.057	98	7.26	7.25	9.23	9.24	21.64	21.65	62.4	62.6	5.20	5.22	25.0	25.0	35	36
M3	2/3/2023	Mid-Ebb	Fine	Moderate	23:23	1.2	M	0.6	2			7.24		9.24		21.66		62.7		5.23		25.0		37	

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



Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	4/3/2023	Mid-Flood	Fine	Moderate	17:56	1.4	M	0.7	1	0.033	56	6.43	6.43	8.17	8.17	20.41	20.42	73.2	73.4	6.24	6.27	19.3	19.3	29	28
M1	4/3/2023	Mid-Flood	Fine	Moderate	17:56	1.4	M	0.7	2			6.42		8.16		20.42		73.6		6.29		19.2		27	
M2	4/3/2023	Mid-Flood	Fine	Moderate	17:38	1.3	M	0.65	1	0.043	72	6.59	6.59	8.23	8.24	20.86	20.87	77.1	77.2	6.46	6.45	20.4	20.4	29	30
M2	4/3/2023	Mid-Flood	Fine	Moderate	17:38	1.3	M	0.65	2			6.58		8.24		20.87		77.2		6.43		20.3		30	
M3	4/3/2023	Mid-Flood	Fine	Smooth	17:27	0.6	M	0.3	1	0.329	95	7.53	7.54	8.01	8.02	25.31	25.31	78.1	77.7	6.55	6.52	36.5	36.3	61	64
M3	4/3/2023	Mid-Flood	Fine	Smooth	17:27	0.6	M	0.3	2			7.55		8.02		25.31		77.2		6.49		36.1		66	
M1	4/3/2023	Mid-Ebb	Fine	Moderate	12:54	0.9	M	0.45	1	0.073	98	6.44	6.43	8.07	8.07	21.44	21.47	79.3	79.4	6.18	6.16	21.3	21.3	34	36
M1	4/3/2023	Mid-Ebb	Fine	Moderate	12:54	0.9	M	0.45	2			6.41		8.06		21.49		79.4		6.14		21.2		37	
M2	4/3/2023	Mid-Ebb	Fine	Moderate	12:33	1.8	M	0.9	1	0.097	143	6.83	6.83	8.16	8.15	21.77	21.75	84.4	84.6	6.89	6.91	19.3	19.3	23	23
M2	4/3/2023	Mid-Ebb	Fine	Moderate	12:33	1.8	M	0.9	2			6.82		8.14		21.73		84.7		6.93		19.3		22	
M3	4/3/2023	Mid-Ebb	Fine	Smooth	12:41	0.4	M	0.2	1	0.291	266	7.39	7.39	6.16	6.15	22.82	22.83	70.6	70.4	5.96	5.95	26.8	27.0	26	24
M3	4/3/2023	Mid-Ebb	Fine	Smooth	12:41	0.4	M	0.2	2			7.38		6.14		22.83		70.2		5.93		27.2		22	

Remark

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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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	7/3/2023	Mid-Flood	Fine	Moderate	8:21	1.4	M	0.7	1	0.076	53	8.07	8.08	7.56	7.55	19.23	19.19	96.8	96.6	8.54	8.53	27.6	27.5	37	38
M1	7/3/2023	Mid-Flood	Fine	Moderate	8:21	1.4	M	0.7	2			8.08		7.54		19.14		96.4		8.51		27.4		38	
M2	7/3/2023	Mid-Flood	Fine	Moderate	8:44	1.3	M	0.65	1	0.069	65	8.11	8.12	7.84	7.85	18.79	18.81	94.4	94.4	8.32	8.32	26.4	26.4	41	40
M2	7/3/2023	Mid-Flood	Fine	Moderate	8:44	1.3	M	0.65	2			8.13		7.86		18.82		94.3		8.31		26.4		39	
M3	7/3/2023	Mid-Flood	Fine	Calm	8:41	0.4	M	0.2	1	0.341	86	7.56	7.57	8.28	8.28	18.68	18.69	73.4	73.0	6.13	6.11	34.7	34.3	46	45
M3	7/3/2023	Mid-Flood	Fine	Calm	8:41	0.4	M	0.2	2			7.58		8.27		18.69		72.6		6.08		34.0		43	
M1	7/3/2023	Mid-Ebb	Fine	Moderate	14:23	1	M	0.5	1	0.093	41	7.64	7.63	9.73	9.73	20.43	20.42	59.4	59.4	4.84	4.85	24.4	24.4	40	41
M1	7/3/2023	Mid-Ebb	Fine	Moderate	14:23	1	M	0.5	2			7.61		9.72		20.41		59.3		4.85		24.4		42	
M2	7/3/2023	Mid-Ebb	Fine	Moderate	14:07	0.9	M	0.45	1	0.087	92	7.56	7.54	9.92	9.93	20.92	20.92	60.0	60.2	5.02	5.06	25.1	25.0	46	48
M2	7/3/2023	Mid-Ebb	Fine	Moderate	14:07	0.9	M	0.45	2			7.51		9.94		20.91		60.4		5.09		24.9		50	
M3	7/3/2023	Mid-Ebb	Fine	Calm	14:04	0.4	M	0.2	1	0.318	257	7.34	7.35	6.46	6.47	24.51	24.52	79.1	79.0	6.53	6.52	30.5	30.2	42	43
M3	7/3/2023	Mid-Ebb	Fine	Calm	14:04	0.4	M	0.2	2			7.35		6.47		24.52		78.8		6.51		29.9		43	

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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	9/3/2023	Mid-Flood	Fine	Calm	9:26	2.2	M	1.1	1	0.391	259	7.53	7.54	8.60	8.61	18.18	18.19	63.3	63.5	4.99	5.01	27.7	27.4	30	30
M1	9/3/2023	Mid-Flood	Fine	Calm	9:26	2.2	M	1.1	2			7.54		8.62		18.20		63.7		5.02		27.0		30	
M2	9/3/2023	Mid-Flood	Fine	Calm	9:44	1.2	M	0.6	1	0.361	304	7.72	7.72	8.34	8.33	18.49	18.50	66.1	66.5	5.24	5.27	23.6	23.4	28	28
M2	9/3/2023	Mid-Flood	Fine	Calm	9:44	1.2	M	0.6	2			7.71		8.32		18.51		66.9		5.29		23.2		28	
M3	9/3/2023	Mid-Flood	Fine	Calm	9:19	0.4	M	0.2	1	0.338	79	7.69	7.69	7.04	7.04	19.38	19.39	68.7	68.8	5.55	5.56	29.7	30.1	38	40
M3	9/3/2023	Mid-Flood	Fine	Calm	9:19	0.4	M	0.2	2			7.68		7.03		19.39		68.9		5.57		30.6		41	
M1	9/3/2023	Mid-Ebb	Fine	Calm	15:35	2.2	M	1.1	1	0.381	210	7.58	7.59	8.01	8.01	24.86	24.86	79.9	79.7	6.46	6.45	29.3	29.4	37	36
M1	9/3/2023	Mid-Ebb	Fine	Calm	15:35	2.2	M	1.1	2			7.59		8.01		24.86		79.5		6.44		29.5		35	
M2	9/3/2023	Mid-Ebb	Fine	Calm	15:16	1.2	M	0.6	1	0.372	238	7.65	7.65	7.26	7.27	24.44	24.45	77.7	77.4	6.28	6.26	24.1	24.6	32	33
M2	9/3/2023	Mid-Ebb	Fine	Calm	15:16	1.2	M	0.6	2			7.64		7.28		24.45		77.1		6.24		25.0		33	
M3	9/3/2023	Mid-Ebb	Fine	Calm	15:03	0.4	M	0.2	1	0.324	262	7.31	7.32	5.37	5.37	25.01	25.02	75.6	75.4	6.11	6.10	37.4	37.1	51	50
M3	9/3/2023	Mid-Ebb	Fine	Calm	15:03	0.4	M	0.2	2			7.33		5.36		25.03		75.2		6.09		36.8		48	

Remark

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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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	11/3/2023	Mid-Flood	Fine	Calm	10:05	2.2	M	1.1	1	0.379	253	7.62	7.63	8.09	8.10	22.86	22.87	73.4	73.6	6.03	6.04	25.8	26.3	31	32
M1	11/3/2023	Mid-Flood	Fine	Calm	10:05	2.2	M	1.1	2			7.63		8.11		22.88		73.7		6.05		26.8		32	
M2	11/3/2023	Mid-Flood	Fine	Calm	10:23	1.2	M	0.6	1	0.367	290	7.69	7.70	7.68	7.68	23.41	23.42	69.1	69.4	5.68	5.70	23.3	23.6	27	28
M2	11/3/2023	Mid-Flood	Fine	Calm	10:23	1.2	M	0.6	2			7.70		7.67		23.42		69.7		5.71		24.0		28	
M3	11/3/2023	Mid-Flood	Fine	Calm	9:59	0.4	M	0.2	1	0.357	87	7.53	7.54	7.26	7.26	23.23	23.24	67.6	67.5	5.64	5.63	31.8	31.2	44	45
M3	11/3/2023	Mid-Flood	Fine	Calm	9:59	0.4	M	0.2	2			7.55		7.25		23.24		67.3		5.62		30.7		46	
M1	11/3/2023	Mid-Ebb	Fine	Calm	16:22	2.2	M	1.1	1	0.35	196	7.46	7.46	7.83	7.82	26.18	26.19	77.1	77.3	6.42	6.43	24.5	24.1	26	27
M1	11/3/2023	Mid-Ebb	Fine	Calm	16:22	2.2	M	1.1	2			7.45		7.81		26.19		77.5		6.44		23.7		28	
M2	11/3/2023	Mid-Ebb	Fine	Calm	16:02	1.2	M	0.6	1	0.35	229	7.58	7.58	7.17	7.18	25.63	25.63	79.7	79.6	6.59	6.59	19.0	19.0	31	29
M2	11/3/2023	Mid-Ebb	Fine	Calm	16:02	1.2	M	0.6	2			7.57		7.19		25.62		79.5		6.58		18.9		27	
M3	11/3/2023	Mid-Ebb	Fine	Calm	16:05	0.4	M	0.2	1	0.346	272	7.32	7.33	6.66	6.67	26.01	26.02	71.5	71.2	5.89	5.87	34.2	34.6	33	34
M3	11/3/2023	Mid-Ebb	Fine	Calm	16:05	0.4	M	0.2	2			7.33		6.68		26.02		70.8		5.85		34.9		35	

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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	14/3/2023	Mid-Flood	Fine	Smooth	11:12	2.4	M	1.2	1	0.389	254	7.63	7.63	12.14	12.15	20.37	20.37	68.6	69.0	5.65	5.67	28.8	28.5	35	36
M1	14/3/2023	Mid-Flood	Fine	Smooth	11:12	2.4	M	1.2	2			7.62	7.62	12.16	12.15	20.36	20.37	69.3	69.0	5.69	5.67	28.2	28.5	36	36
M2	14/3/2023	Mid-Flood	Fine	Smooth	11:31	1.2	M	0.6	1	0.37	311	7.49	7.49	11.21	11.22	20.69	20.69	61.7	61.6	5.19	5.18	25.6	25.9	29	29
M2	14/3/2023	Mid-Flood	Fine	Smooth	11:31	1.2	M	0.6	2			7.48	7.48	11.22	11.22	20.69	20.69	61.4	61.6	5.17	5.18	26.2	25.9	29	29
M3	14/3/2023	Mid-Flood	Fine	Moderate	11:09	1.4	M	0.7	1	0.075	76	7.29	7.27	11.47	11.50	21.05	21.05	66.9	66.8	5.54	5.56	34.2	34.2	49	49
M3	14/3/2023	Mid-Flood	Fine	Moderate	11:09	1.4	M	0.7	2			7.24	7.27	11.52	11.50	21.04	21.05	66.7	66.8	5.57	5.56	34.1	34.2	52	51
M1	14/3/2023	Mid-Ebb	Fine	Smooth	18:20	2.2	M	1.1	1	0.404	202	7.57	7.58	10.91	10.92	21.62	21.62	57.3	57.5	4.61	4.62	27.0	27.0	45	45
M1	14/3/2023	Mid-Ebb	Fine	Smooth	18:20	2.2	M	1.1	2			7.59	7.58	10.93	10.92	21.61	21.62	57.7	57.5	4.63	4.62	27.1	27.0	44	45
M2	14/3/2023	Mid-Ebb	Fine	Smooth	18:03	1.2	M	0.6	1	0.383	236	7.71	7.71	8.47	8.48	21.21	21.20	53.2	53.7	4.33	4.36	24.7	24.5	29	29
M2	14/3/2023	Mid-Ebb	Fine	Smooth	18:03	1.2	M	0.6	2			7.70	7.71	8.49	8.48	21.19	21.20	54.1	53.7	4.39	4.36	24.3	24.5	28	29
M3	14/3/2023	Mid-Ebb	Fine	Moderate	18:07	1.2	M	0.6	1	0.042	105	7.21	7.22	13.41	13.44	20.83	20.84	49.3	49.4	4.08	4.09	32.7	32.7	34	34
M3	14/3/2023	Mid-Ebb	Fine	Moderate	18:07	1.2	M	0.6	2			7.23	7.22	13.47	13.44	20.84	20.84	49.4	49.4	4.09	4.09	32.8	32.7	34	34

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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	16/3/2023	Mid-Flood	Fine	Calm	8:10	2.2	M	1.1	1	0.41	252	7.67	7.67	8.10	8.10	18.47	18.48	60.8	60.5	4.93	4.91	21.8	22.0	42	40
M1	16/3/2023	Mid-Flood	Fine	Calm	8:10	2.2	M	1.1	2			7.66		8.09		18.49		60.2		4.89		22.1		37	
M2	16/3/2023	Mid-Flood	Fine	Calm	8:28	1.2	M	0.6	1	0.401	301	7.60	7.61	7.06	7.07	18.75	18.75	56.9	57.2	4.68	4.70	25.5	26.1	37	38
M2	16/3/2023	Mid-Flood	Fine	Calm	8:28	1.2	M	0.6	2			7.61		7.08		18.74		57.4		4.71		26.7		39	
M3	16/3/2023	Mid-Flood	Fine	Calm	8:06	0.4	M	0.2	1	0.391	92	7.56	7.56	7.18	7.19	18.39	18.39	53.8	54.2	4.44	4.47	28.6	29.0	31	31
M3	16/3/2023	Mid-Flood	Fine	Calm	8:06	0.4	M	0.2	2			7.55		7.19		18.39		54.6		4.49		29.5		30	
M1	16/3/2023	Mid-Ebb	Fine	Calm	21:09	2.4	M	1.2	1	0.394	192	7.46	7.47	7.36	7.36	23.12	23.13	69.1	69.3	5.69	5.71	28.2	27.7	38	38
M1	16/3/2023	Mid-Ebb	Fine	Calm	21:09	2.4	M	1.2	2			7.47		7.35		23.13		69.5		5.72		27.3		37	
M2	16/3/2023	Mid-Ebb	Fine	Calm	20:51	1.2	M	0.6	1	0.402	241	7.54	7.55	6.94	6.95	23.25	23.26	73.3	72.9	6.05	6.03	23.9	24.4	30	29
M2	16/3/2023	Mid-Ebb	Fine	Calm	20:51	1.2	M	0.6	2			7.56		6.96		23.26		72.5		6.01		24.8		28	
M3	16/3/2023	Mid-Ebb	Fine	Calm	20:52	0.6	M	0.3	1	0.382	261	7.62	7.63	6.47	6.47	23.87	23.87	67.1	67.3	5.56	5.57	32.0	31.5	29	29
M3	16/3/2023	Mid-Ebb	Fine	Calm	20:52	0.6	M	0.3	2			7.64		6.46		23.86		67.5		5.58		31.0		28	

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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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	18/3/2023	Mid-Flood	Fine	Calm	16:53	2.4	M	1.2	1	0.382	242	7.80	7.80	8.93	8.94	24.66	24.67	97.8	98.0	7.81	7.82	25.6	25.4	31	30
M1	18/3/2023	Mid-Flood	Fine	Calm	16:53	2.4	M	1.2	2			7.79	7.75	8.95	8.67	24.68	24.39	98.2	96.4	7.83	7.71	25.3	24.7	28	22
M2	18/3/2023	Mid-Flood	Fine	Calm	16:37	1.2	M	0.6	1	0.356	289	7.75	7.75	8.67	8.67	24.39	24.39	96.4	96.7	7.71	7.73	24.7	24.5	22	22
M2	18/3/2023	Mid-Flood	Fine	Calm	16:37	1.2	M	0.6	2			7.74	7.69	8.66	8.17	24.38	24.87	96.9	95.2	7.74	7.60	24.3	30.0	21	25
M3	18/3/2023	Mid-Flood	Fine	Calm	16:42	0.8	M	0.4	1	0.298	95	7.69	7.69	8.17	8.18	24.87	24.88	95.2	95.1	7.60	7.59	30.0	30.2	25	25
M3	18/3/2023	Mid-Flood	Fine	Calm	16:42	0.8	M	0.4	2			7.68	7.45	8.19	8.13	24.88	22.32	94.9	89.6	7.58	7.16	30.4	28.3	25	27
M1	18/3/2023	Mid-Ebb	Fine	Calm	12:07	2.2	M	1.1	1	0.323	196	7.44	7.45	8.13	8.13	22.31	22.32	89.6	89.9	7.16	7.18	28.5	28.3	27	27
M1	18/3/2023	Mid-Ebb	Fine	Calm	12:07	2.2	M	1.1	2			7.45	7.49	8.12	7.85	22.33	22.98	90.1	91.7	7.19	7.43	28.1	23.1	27	41
M2	18/3/2023	Mid-Ebb	Fine	Calm	12:25	1.2	M	0.6	1	0.31	231	7.49	7.49	7.86	7.86	22.97	22.98	91.7	91.5	7.43	7.42	23.1	23.2	41	43
M2	18/3/2023	Mid-Ebb	Fine	Calm	12:25	1.2	M	0.6	2			7.49	7.32	7.86	7.30	22.98	22.74	91.3	87.5	7.41	6.99	23.4	32.8	45	43
M3	18/3/2023	Mid-Ebb	Fine	Calm	12:04	0.4	M	0.2	1	0.247	270	7.29	7.30	7.32	7.31	22.74	22.75	87.5	87.4	7.00	6.99	33.2	32.8	43	43
M3	18/3/2023	Mid-Ebb	Fine	Calm	12:04	0.4	M	0.2	2			7.31	7.30	7.30	7.30	22.76	22.76	87.2	87.2	6.98	6.98	32.4	32.4	42	42

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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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	21/3/2023	Mid-Flood	Fine	Moderate	8:13	1.3	M	0.65	1	0.065	98	7.50	7.51	4.41	4.42	24.96	24.95	78.3	78.4	6.32	6.33	25.7	25.7	33	33
M1	21/3/2023	Mid-Flood	Fine	Moderate	8:13	1.3	M	0.65	2			7.52		4.43		24.94		78.4		6.33		25.7		32	
M2	21/3/2023	Mid-Flood	Fine	Moderate	8:26	1.2	M	0.6	1	0.056	135	7.26	7.25	4.23	4.23	26.41	26.39	83.4	83.3	5.48	5.49	26.2	26.2	25	26
M2	21/3/2023	Mid-Flood	Fine	Moderate	8:26	1.2	M	0.6	2			7.24		4.22		26.37		83.2		5.49		26.2		27	
M3	21/3/2023	Mid-Flood	Cloudy	Smooth	8:19	0.4	M	0.2	1	0.361	88	7.49	7.49	6.02	6.03	20.96	20.97	65.3	65.1	5.35	5.34	32.4	32.5	43	43
M3	21/3/2023	Mid-Flood	Cloudy	Smooth	8:19	0.4	M	0.2	2			7.49		6.04		20.97		64.9		5.33		32.6		42	
M1	21/3/2023	Mid-Ebb	Fine	Moderate	14:27	1.2	M	0.6	1	0.122	78	7.64	7.63	3.62	3.63	24.73	24.73	80.7	80.7	6.41	6.42	19.8	19.8	42	41
M1	21/3/2023	Mid-Ebb	Fine	Moderate	14:27	1.2	M	0.6	2			7.61		3.63		24.72		80.6		6.42		19.8		40	
M2	21/3/2023	Mid-Ebb	Fine	Moderate	14:09	1.1	M	0.55	1	0.076	144	7.53	7.54	3.31	3.32	25.06	25.07	82.3	82.4	6.58	6.58	18.8	18.8	33	32
M2	21/3/2023	Mid-Ebb	Fine	Moderate	14:09	1.1	M	0.55	2			7.54		3.32		25.07		82.4		6.57		18.8		31	
M3	21/3/2023	Mid-Ebb	Cloudy	Smooth	14:04	0.6	M	0.3	1	0.35	261	7.34	7.34	5.16	5.16	24.36	24.37	68.5	68.2	5.54	5.53	35.3	35.0	49	51
M3	21/3/2023	Mid-Ebb	Cloudy	Smooth	14:04	0.6	M	0.3	2			7.33		5.15		24.38		67.9		5.51		34.6		53	

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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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	23/3/2023	Mid-Flood	Fine	Moderate	9:08	1.1	M	0.55	1	0.085	96	7.42	7.42	5.28	5.26	25.78	25.76	87.4	87.3	6.91	6.88	29.0	28.7	25	25
M1	23/3/2023	Mid-Flood	Fine	Moderate	9:08	1.1	M	0.55	2			7.41		5.24		25.74		87.2		6.84		28.5		25	
M2	23/3/2023	Mid-Flood	Fine	Moderate	9:24	0.9	M	0.45	1	0.076	143	7.51	7.52	5.04	5.03	26.14	26.16	88.9	89.0	7.02	7.04	27.3	27.3	27	26
M2	23/3/2023	Mid-Flood	Fine	Moderate	9:24	0.9	M	0.45	2			7.52		5.01		26.17		89.1		7.06		27.3		25	
M3	23/3/2023	Mid-Flood	Cloudy	Smooth	9:03	0.6	M	0.3	1	0.373	95	7.55	7.55	6.25	6.26	23.88	23.89	72.1	71.9	5.63	5.62	31.6	32.1	37	37
M3	23/3/2023	Mid-Flood	Cloudy	Smooth	9:03	0.6	M	0.3	2			7.54		6.27		23.90		71.7		5.60		32.5		36	
M1	23/3/2023	Mid-Ebb	Fine	Moderate	15:34	1	M	0.5	1	0.085	325	7.49	7.48	4.57	4.57	25.09	25.08	85.8	85.8	6.84	6.84	22.3	22.3	23	25
M1	23/3/2023	Mid-Ebb	Fine	Moderate	15:34	1	M	0.5	2			7.46		4.56		25.07		85.7		6.83		22.2		26	
M2	23/3/2023	Mid-Ebb	Fine	Moderate	15:11	0.7	M	0.35	1	0.074	314	7.54	7.55	4.36	4.34	25.66	25.67	87.0	87.0	6.93	6.93	21.5	21.6	27	27
M2	23/3/2023	Mid-Ebb	Fine	Moderate	15:11	0.7	M	0.35	2			7.56		4.31		25.67		86.9		6.92		21.6		26	
M3	23/3/2023	Mid-Ebb	Cloudy	Smooth	15:06	0.6	M	0.3	1	0.364	271	7.46	7.47	4.48	4.49	26.81	26.82	84.1	83.9	6.74	6.73	27.4	26.8	35	33
M3	23/3/2023	Mid-Ebb	Cloudy	Smooth	15:06	0.6	M	0.3	2			7.48		4.49		26.82		83.6		6.71		26.2		31	

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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	25/3/2023	Mid-Flood	Cloudy	Smooth	9:45	2.4	M	1.2	1	0.399	235	7.40	7.41	6.02	6.03	22.95	22.95	87.6	87.4	6.52	6.51	26.8	26.9	32	30
M1	25/3/2023	Mid-Flood	Cloudy	Smooth	9:45	2.4	M	1.2	2			7.41		6.04		22.95		87.2		6.49		27.1		28	
M2	25/3/2023	Mid-Flood	Cloudy	Smooth	10:02	1.2	M	0.6	1	0.392	280	7.53	7.54	5.77	5.77	23.28	23.29	90.4	90.6	6.69	6.70	22.6	22.7	27	26
M2	25/3/2023	Mid-Flood	Cloudy	Smooth	10:02	1.2	M	0.6	2			7.54		5.76		23.29		90.7		6.71		22.8		25	
M3	25/3/2023	Mid-Flood	Cloudy	Smooth	9:48	0.8	M	0.4	1	0.361	93	7.37	7.38	5.14	5.15	23.14	23.14	92.5	92.8	6.81	6.83	31.5	31.0	40	40
M3	25/3/2023	Mid-Flood	Cloudy	Smooth	9:48	0.8	M	0.4	2			7.39		5.15		23.13		93.1		6.85		30.6		39	
M1	25/3/2023	Mid-Ebb	Cloudy	Smooth	16:24	2.2	M	1.1	1	0.408	198	7.36	7.36	4.18	4.19	20.09	20.10	96.9	97.3	7.11	7.14	23.3	23.2	34	33
M1	25/3/2023	Mid-Ebb	Cloudy	Smooth	16:24	2.2	M	1.1	2			7.36		4.19		20.11		97.7		7.16		23.2		32	
M2	25/3/2023	Mid-Ebb	Cloudy	Smooth	16:05	1.2	M	0.6	1	0.42	221	7.44	7.43	3.71	3.71	20.56	20.56	94.5	94.3	6.96	6.95	20.9	20.7	28	29
M2	25/3/2023	Mid-Ebb	Cloudy	Smooth	16:05	1.2	M	0.6	2			7.42		3.70		20.55		94.1		6.94		20.5		29	
M3	25/3/2023	Mid-Ebb	Cloudy	Smooth	16:06	0.6	M	0.3	1	0.384	262	7.31	7.32	3.87	3.87	20.33	20.32	96.2	95.8	7.06	7.04	25.1	24.7	28	29
M3	25/3/2023	Mid-Ebb	Cloudy	Smooth	16:06	0.6	M	0.3	2			7.32		3.86		20.31		95.4		7.02		24.2		29	

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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	28/3/2023	Mid-Flood	Cloudy	Smooth	10:33	2.2	M	1.1	1	0.351	224	7.51	7.51	7.84	7.85	19.42	19.43	45.8	45.3	4.01	3.98	15.8	15.9	17	18
M1	28/3/2023	Mid-Flood	Cloudy	Smooth	10:33	2.2	M	1.1	2			7.51	7.51	7.86	7.85	19.43	19.43	44.8	45.3	3.95	3.98	16.0	15.9	18	18
M2	28/3/2023	Mid-Flood	Cloudy	Smooth	10:49	1.2	M	0.6	1	0.366	300	7.82	7.83	7.76	7.77	19.79	19.79	42.2	42.0	3.69	3.68	13.8	14.1	18	19
M2	28/3/2023	Mid-Flood	Cloudy	Smooth	10:49	1.2	M	0.6	2			7.83	7.83	7.78	7.77	19.78	19.79	41.8	42.0	3.66	3.68	14.4	14.1	19	19
M3	28/3/2023	Mid-Flood	Fine	Moderate	10:44	1.4	M	0.7	1	0.068	91	7.69	7.69	7.42	7.43	20.56	20.55	44.1	43.5	3.71	3.73	18.6	18.6	25	24
M3	28/3/2023	Mid-Flood	Fine	Moderate	10:44	1.4	M	0.7	2			7.68	7.68	7.44	7.43	20.54	20.55	42.9	43.5	3.74	3.73	18.6	18.6	23	24
M1	28/3/2023	Mid-Ebb	Cloudy	Smooth	18:21	2.2	M	1.1	1	0.388	206	7.61	7.60	7.24	7.25	18.57	18.57	52.1	52.3	4.58	4.60	17.3	17.4	18	20
M1	28/3/2023	Mid-Ebb	Cloudy	Smooth	18:21	2.2	M	1.1	2			7.59	7.59	7.25	7.25	18.56	18.57	52.5	52.3	4.61	4.60	17.4	17.4	21	20
M2	28/3/2023	Mid-Ebb	Cloudy	Smooth	18:03	1.2	M	0.6	1	0.4	232	7.69	7.70	6.91	6.91	18.92	18.93	49.5	49.9	4.40	4.42	14.5	14.8	15	16
M2	28/3/2023	Mid-Ebb	Cloudy	Smooth	18:03	1.2	M	0.6	2			7.70	7.70	6.90	6.91	18.94	18.93	50.2	49.9	4.44	4.42	15.1	14.8	16	16
M3	28/3/2023	Mid-Ebb	Fine	Moderate	18:21	1.3	M	0.65	1	0.047	133	7.68	7.68	6.34	6.34	20.28	20.29	52.4	52.5	4.03	4.04	14.5	14.5	15	16
M3	28/3/2023	Mid-Ebb	Fine	Moderate	18:21	1.3	M	0.65	2			7.67	7.67	6.33	6.34	20.29	20.29	52.6	52.5	4.05	4.04	14.5	14.5	16	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

Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	30/3/2023	Mid-Flood	Fine	Moderate	8:04	1	M	0.5	1	0.057	162	7.44	7.46	6.23	6.25	24.13	24.13	68.8	68.6	4.63	4.61	18.2	18.2	17	17
M1	30/3/2023	Mid-Flood	Fine	Moderate	8:04	1	M	0.5	2			7.48		6.27		24.12		68.4		4.59		18.2		17	
M2	30/3/2023	Mid-Flood	Fine	Moderate	7:45	0.8	M	0.4	1	0.045	71	7.67	7.65	6.45	6.45	24.82	24.82	62.4	62.3	4.43	4.42	18.5	18.5	17	17
M2	30/3/2023	Mid-Flood	Fine	Moderate	7:45	0.8	M	0.4	2			7.62		6.44		24.81		62.1		4.41		18.5		16	
M3	30/3/2023	Mid-Flood	Cloudy	Smooth	7:59	0.6	M	0.3	1	0.319	83	7.46	7.46	7.08	7.09	20.08	20.09	49.3	49.1	4.21	4.19	15.6	15.4	18	18
M3	30/3/2023	Mid-Flood	Cloudy	Smooth	7:59	0.6	M	0.3	2			7.45		7.09		20.09		48.8		4.16		15.2		17	
M1	30/3/2023	Mid-Ebb	Fine	Moderate	21:05	1.2	M	0.6	1	0.086	98	7.31	7.32	7.95	7.95	22.16	22.17	74.5	74.3	4.87	4.84	12.3	12.4	18	17
M1	30/3/2023	Mid-Ebb	Fine	Moderate	21:05	1.2	M	0.6	2			7.32		7.94		22.18		74.1		4.81		12.4		16	
M2	30/3/2023	Mid-Ebb	Fine	Moderate	21:29	0.9	M	0.45	1	0.077	265	7.26	7.27	7.84	7.84	24.85	24.84	80.3	80.4	5.21	5.23	13.1	13.1	17	17
M2	30/3/2023	Mid-Ebb	Fine	Moderate	21:29	0.9	M	0.45	2			7.27		7.83		24.82		80.4		5.24		13.2		16	
M3	30/3/2023	Mid-Ebb	Cloudy	Smooth	20:42	0.6	M	0.3	1	0.338	273	7.21	7.22	5.07	5.08	21.18	21.18	45.3	45.4	3.82	3.83	18.0	17.6	16	16
M3	30/3/2023	Mid-Ebb	Cloudy	Smooth	20:42	0.6	M	0.3	2			7.23		5.08		21.17		45.5		3.84		17.1		16	

Remark

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

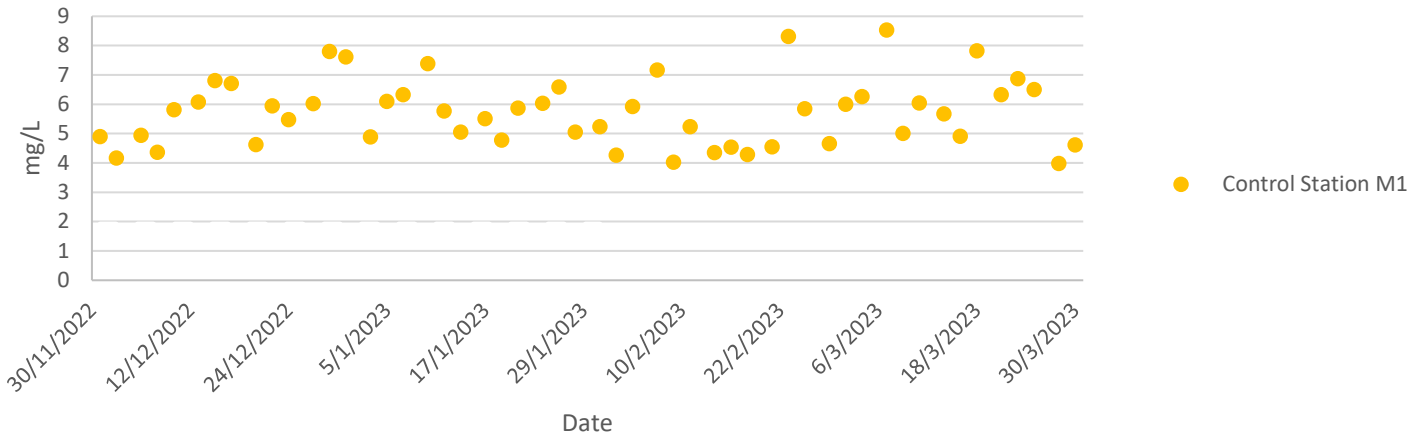
For Flood Tide

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

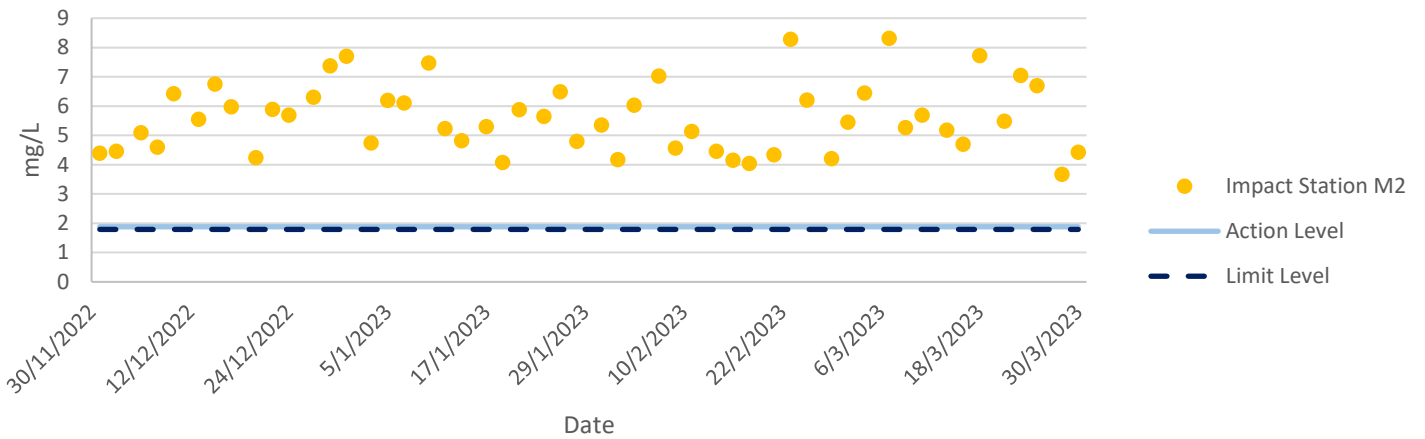
For Ebb Tide

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

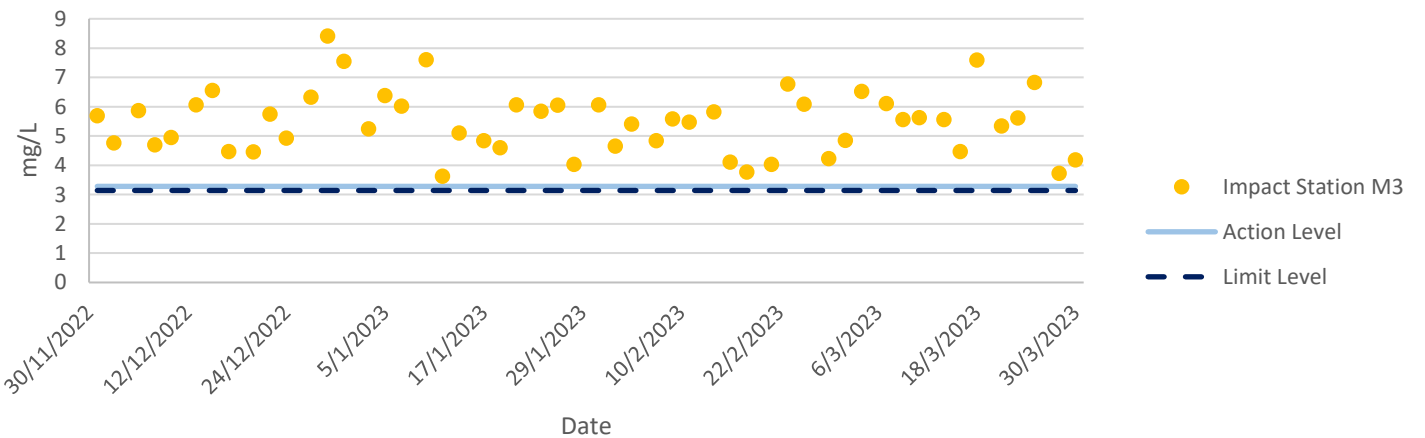
### Dissolved Oxygen at Mid-Flood Tide



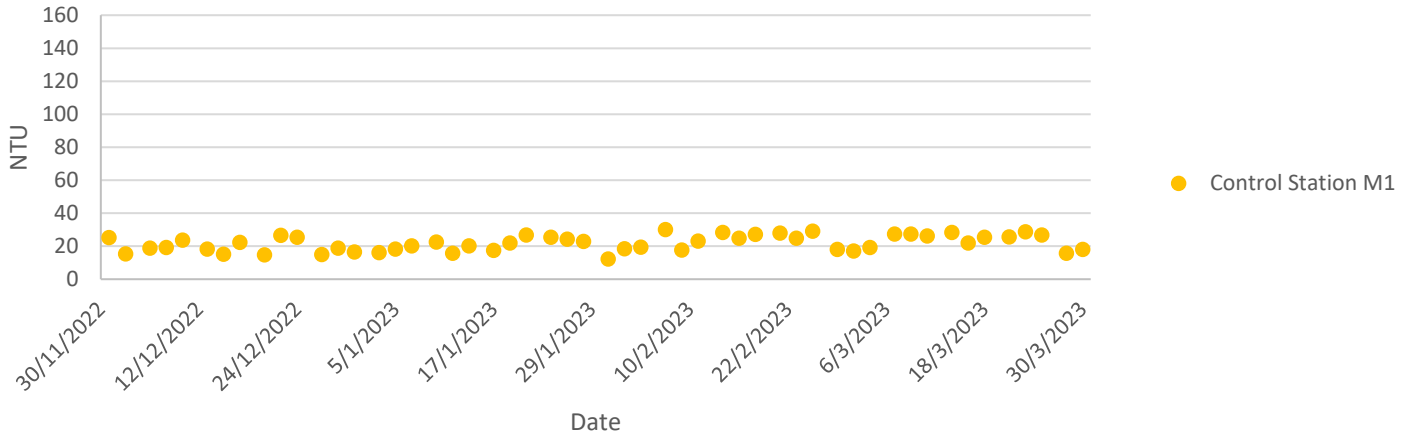
### Dissolved Oxygen at Mid-Flood Tide



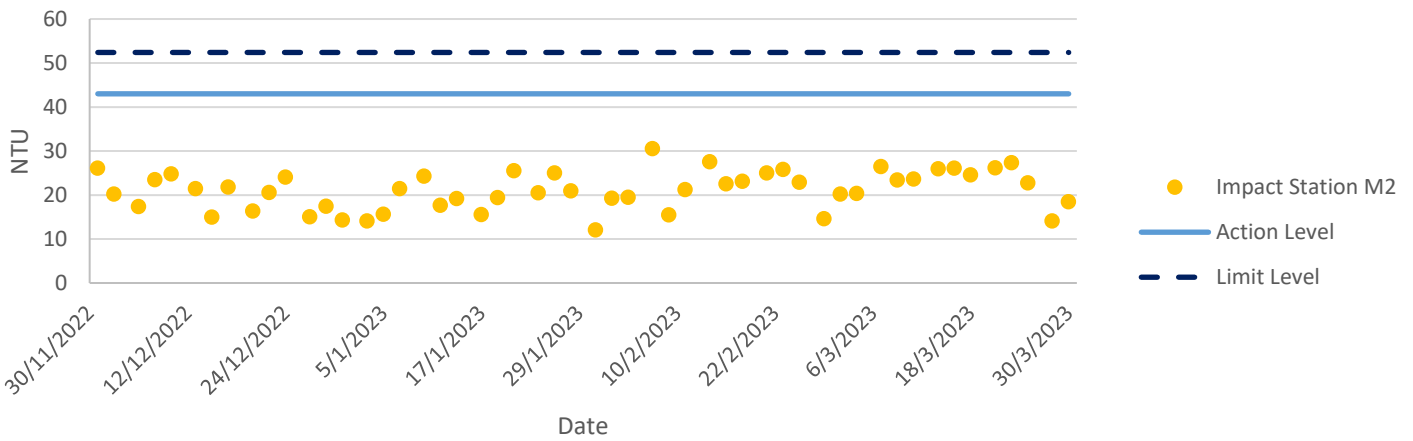
### Dissolved Oxygen at Mid-Flood Tide



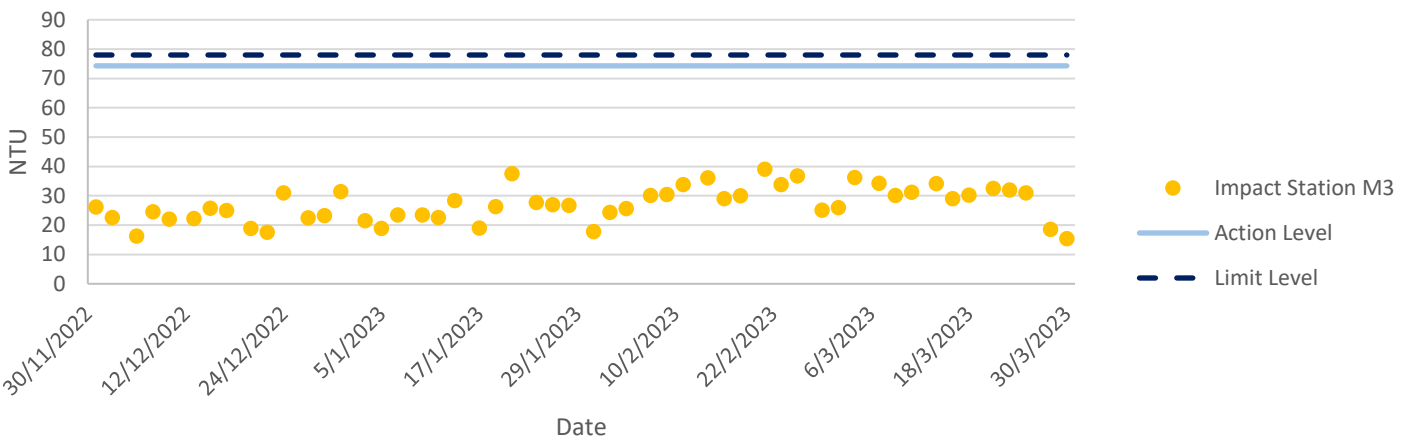
### Turbidity at Mid-Flood Tide



### Turbidity at Mid-Flood Tide

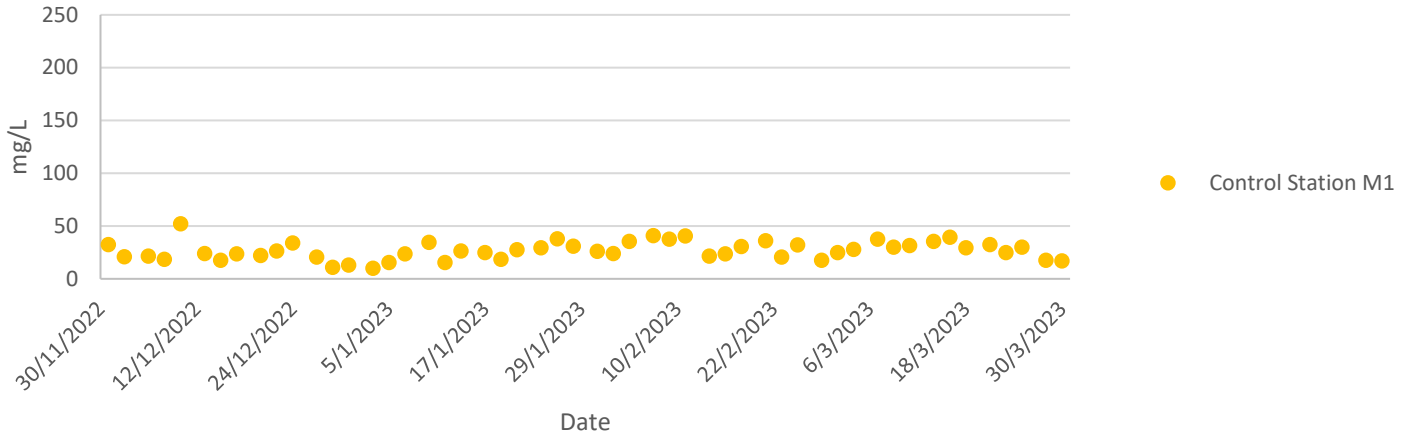


### Turbidity at Mid-Flood Tide

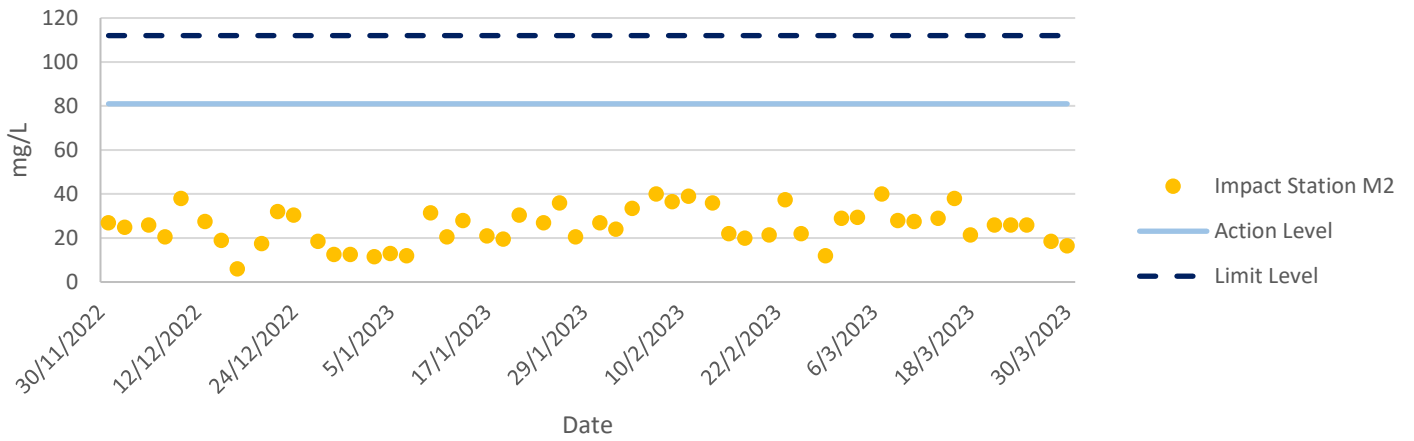


## Water Quality Monitoring Results

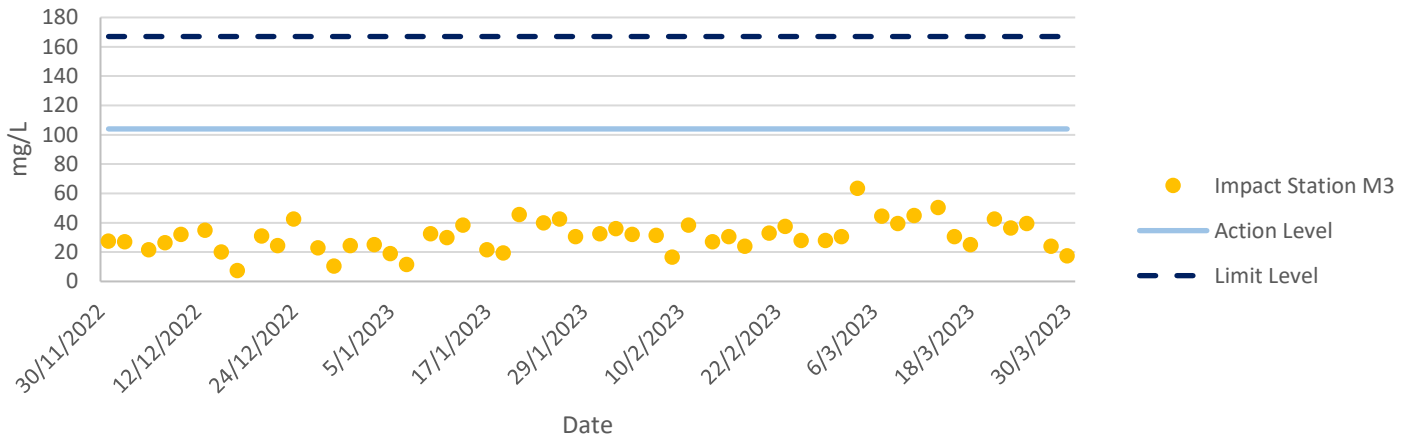
### Total Suspended Solids at Mid-Flood Tide



### Total Suspended Solids at Mid-Flood Tide

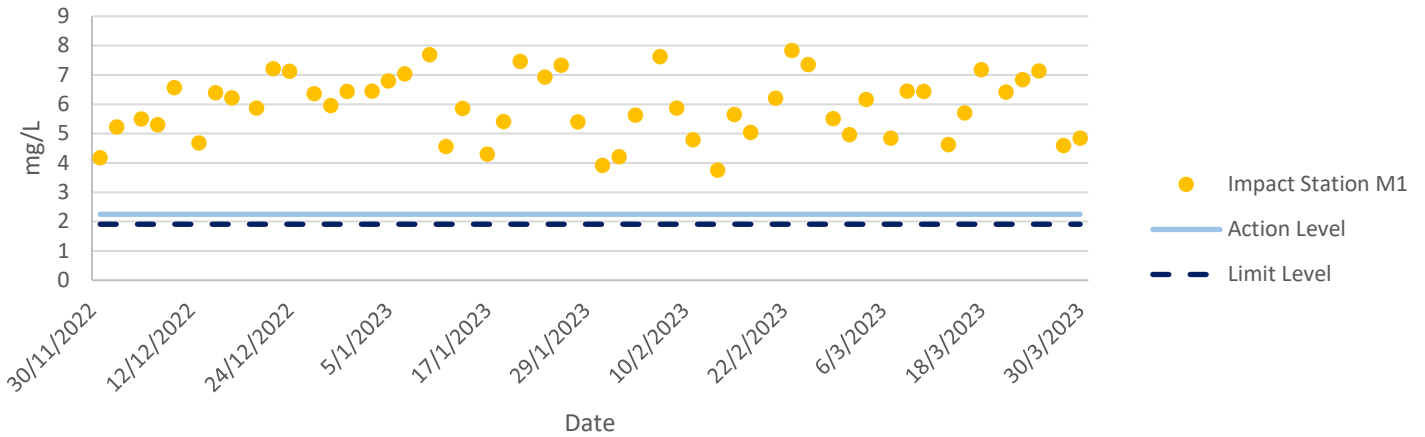


### Total Suspended Solids at Mid-Flood Tide

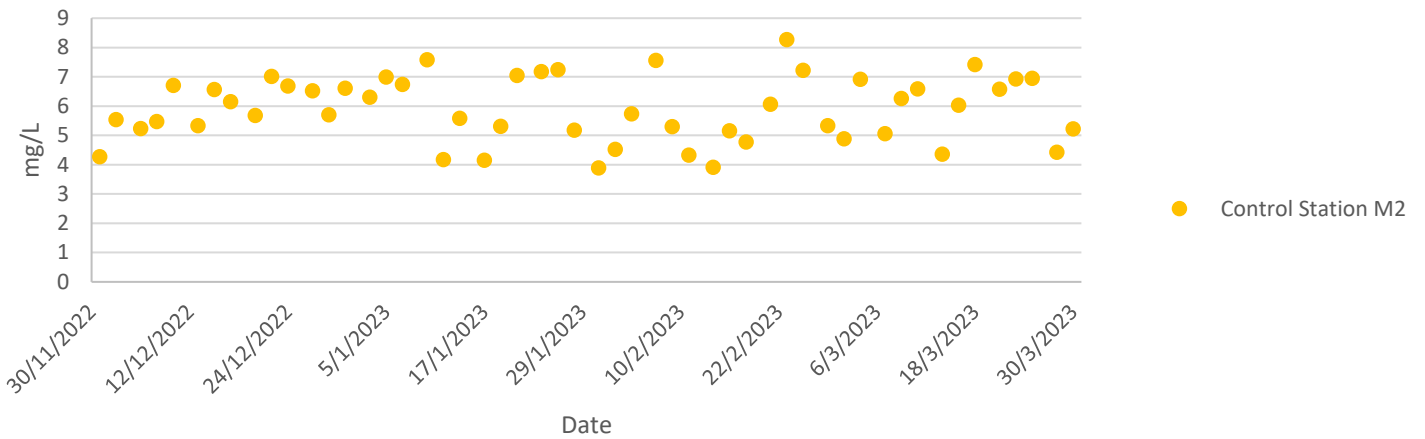


## Water Quality Monitoring Results

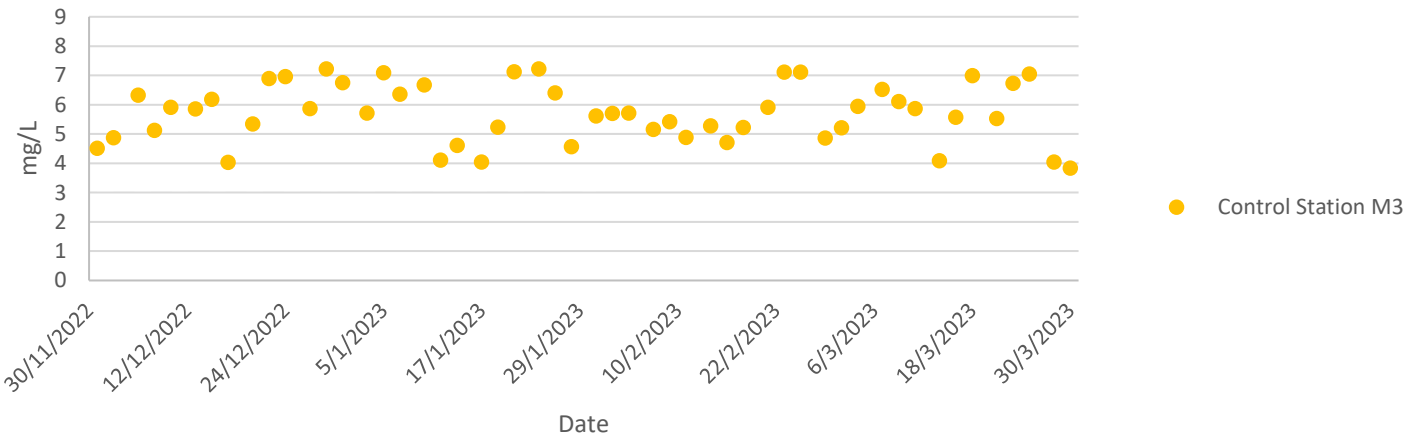
### Dissolved Oxygen at Mid-Ebb Tide



### Dissolved Oxygen at Mid-Ebb Tide

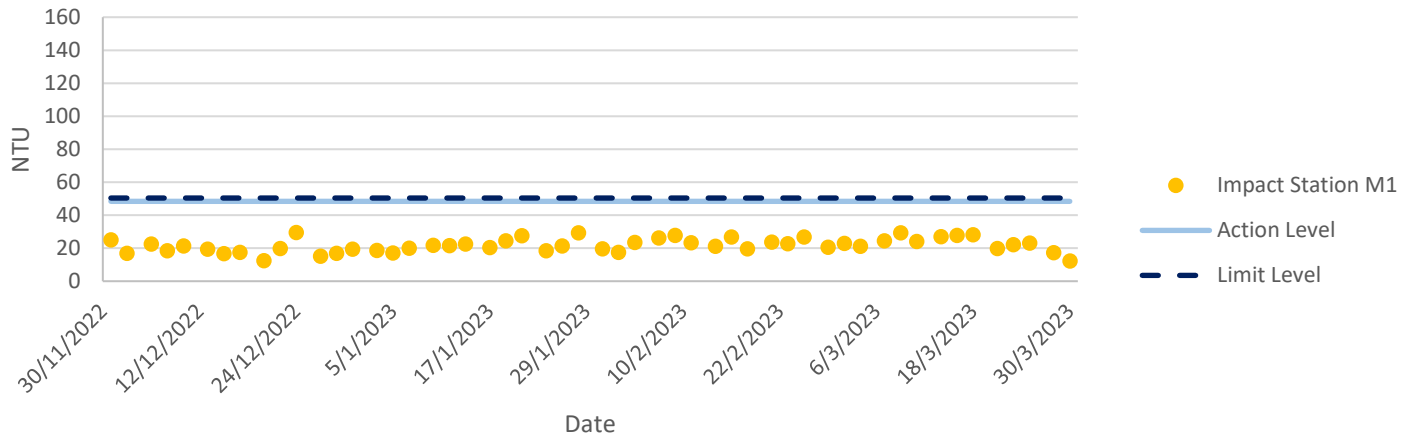


### Dissolved Oxygen at Mid-Ebb Tide

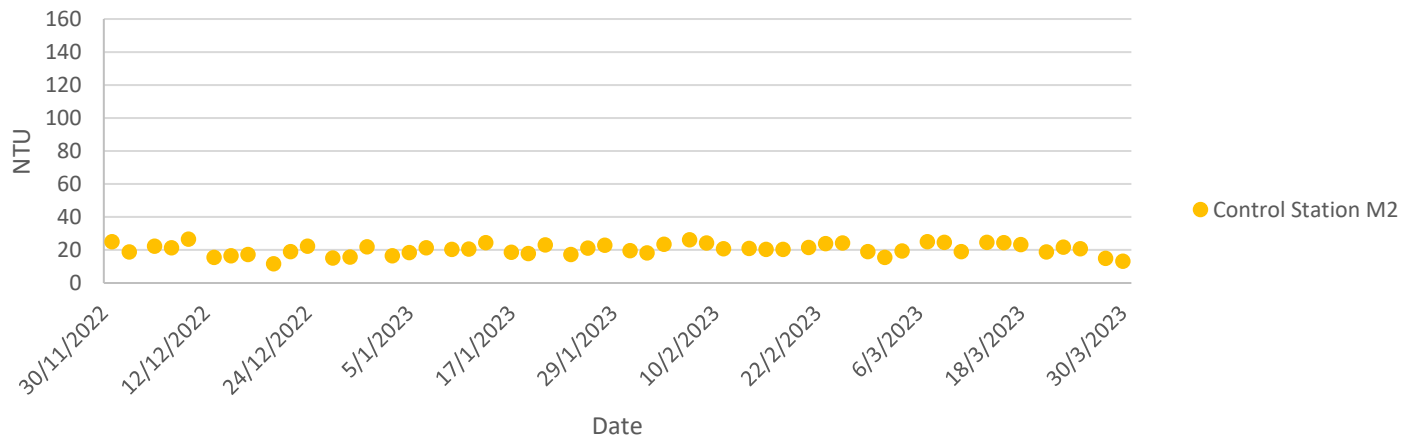




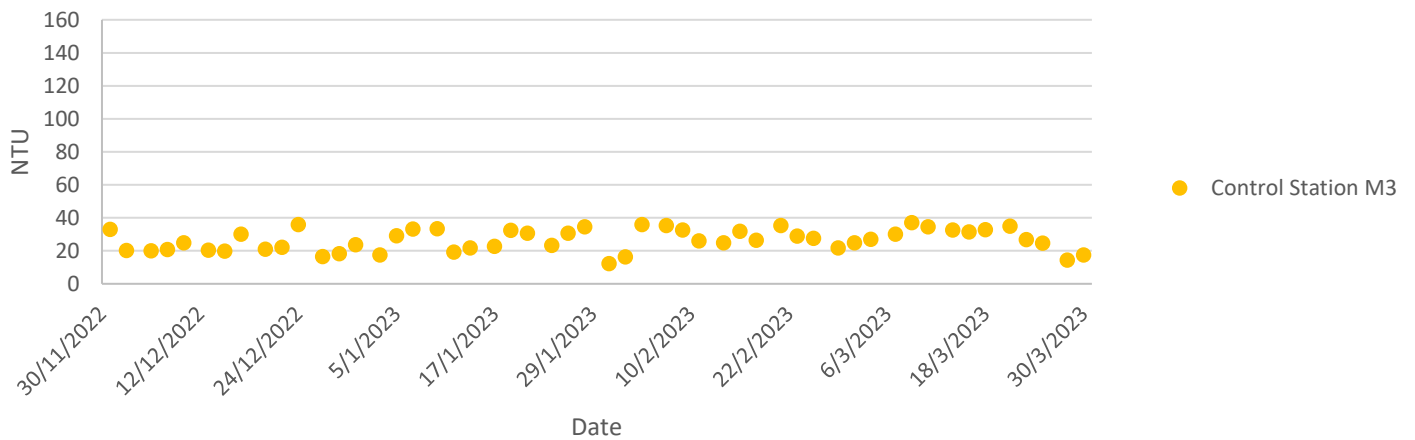
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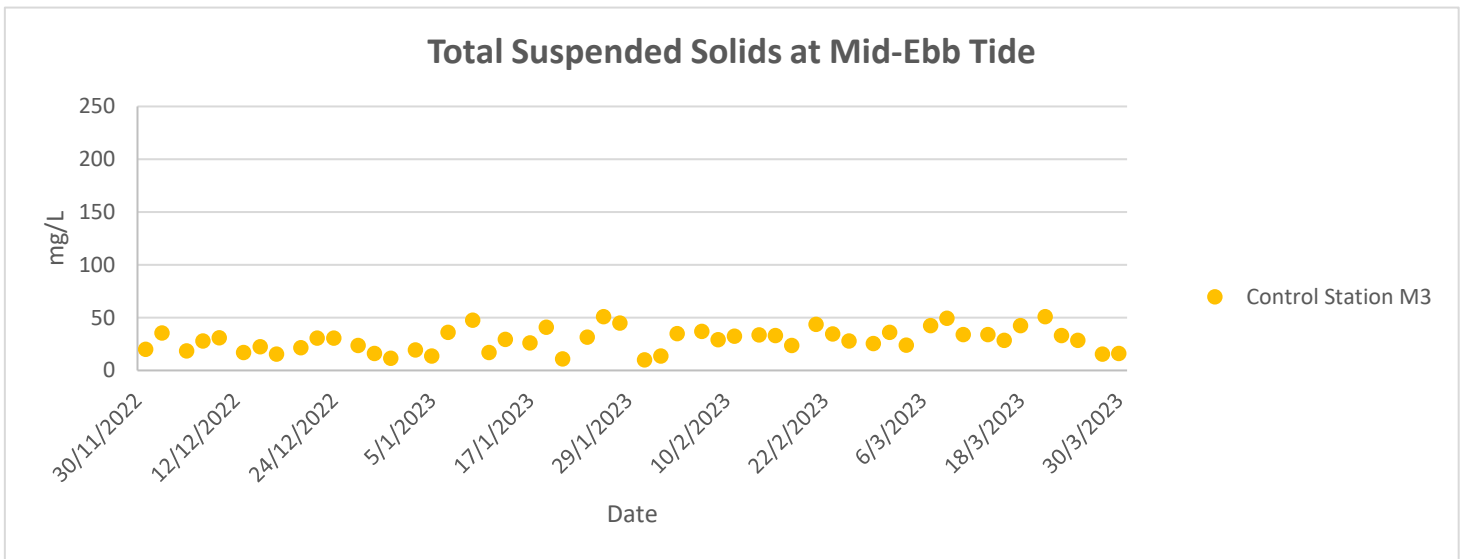
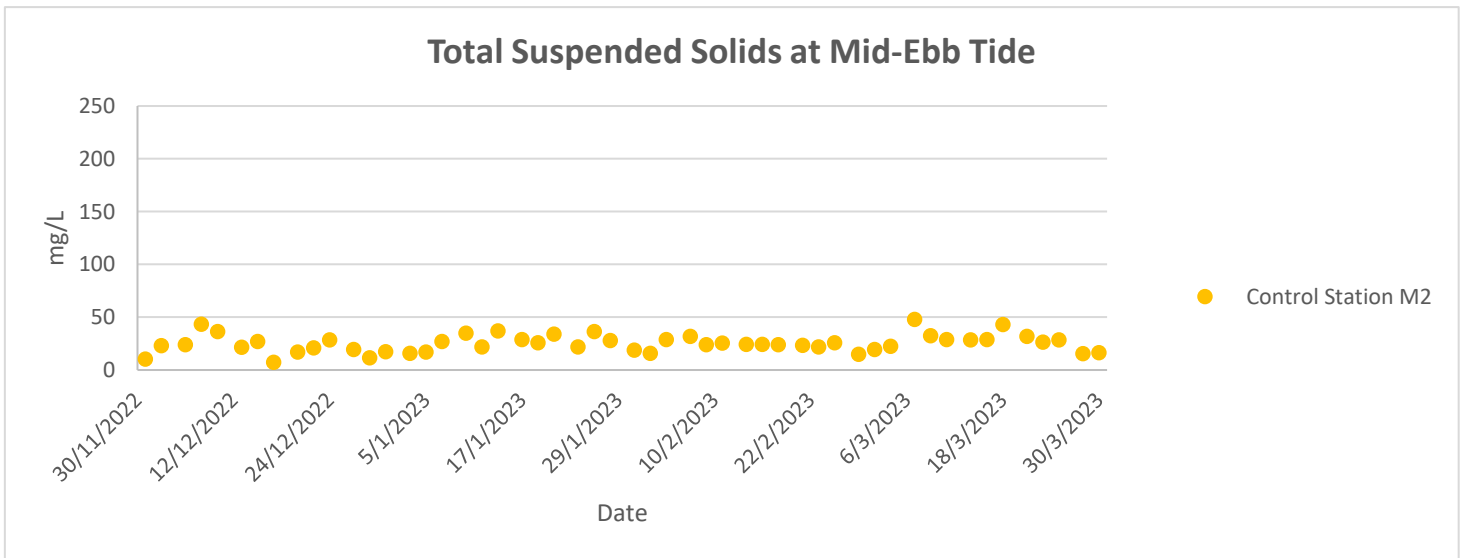
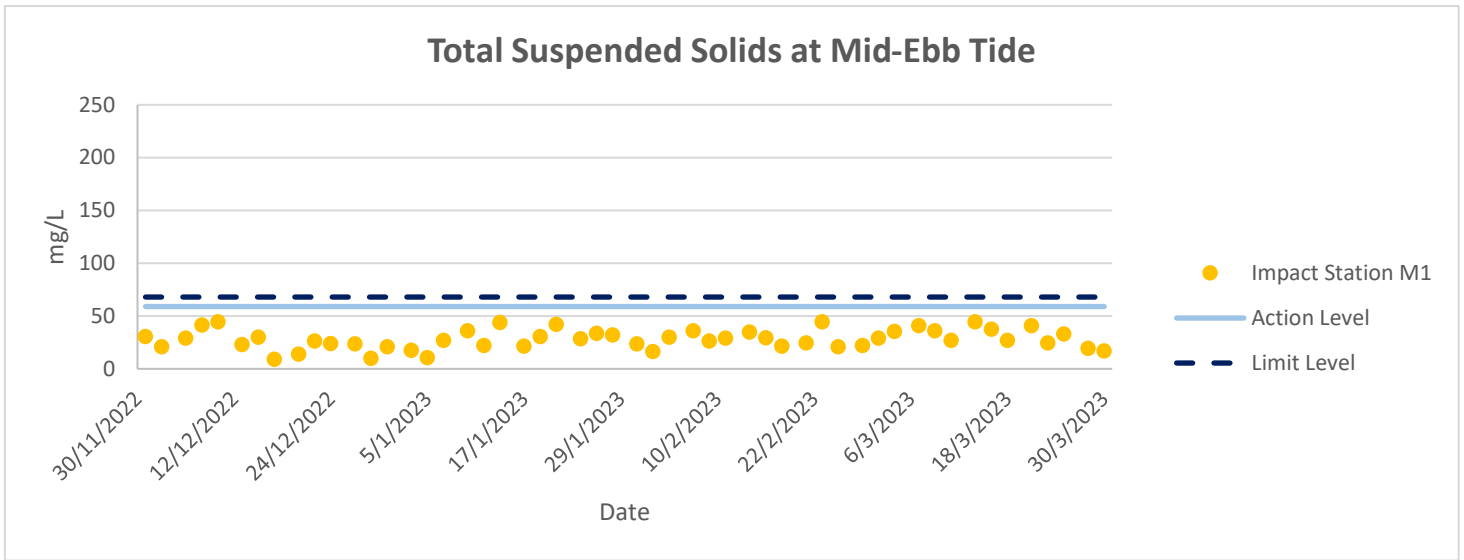


### Turbidity at Mid-Ebb Tide



### Turbidity at Mid-Ebb Tide





**Water Quality Monitoring Results**

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## 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 Ecological Bird Monitoring Result (21 March 2023)

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 <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>10</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Asian Koel	<i>Eudynamys scolopaceus</i>	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	6	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	5	Introduced	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Eurasian Tree Sparrow	<i>Passer montanus</i>	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Large-billed Crow	<i>Corvus macrorhynchos</i>	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	20	Common	WV	PRC	-	-	LC	LC	Y	Y

21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Crested Myna	Acridotheres cristatellus	4	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Eurasian Collared Dove	Streptopelia decaocto	2	Found in Mai Po, Tsim Bei Tsui, Fung Lok Wai	-	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Little Grebe	Tachybaptus ruficollis	2	Common	R	LC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	White Wagtail	Motacilla alba	2	Common	PM,WV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Eastern Cattle Egret	Bubulcus coromandus	9	Common	R,PM	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Great Egret	Ardea alba	12	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	White-breasted Waterhen	Amaurornis phoenicurus	3	Common	R	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Asian Koel	Eudynamis scolopaceus	3	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Japanese White-eye	Zosterops japonicus	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Large-billed Crow	Corvus macrorhynchos	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Barn Swallow	Hirundo rustica	4	Abundant	PM,SV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Black-collared Starling	Gracupica nigricollis	2	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Cinereous Tit	Parus cinereus	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Great Cormorant	Phalacrocorax carbo	6	Common	WV	PRC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Red-billed Blue Magpie	Urocissa erythroryncha	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Asian Koel	Eudynamis scolopaceus	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-collared Starling	Gracupica nigricollis	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-headed Gull	Chroicocephalus ridibundus	15	Common	WV	PRC	-	-	LC	LC	Y	Y

21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-winged Stilt	Himantopus himantopus	7	Common	PM	RC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Greenshank	Tringa nebularia	10	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Moorhen	Gallinula chloropus	8	Common	R	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Sandpiper	Actitis hypoleucos	3	Common	PM,WV	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Marsh Sandpiper	Tringa stagnatilis	12	Common	PM,WV	RC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Pied Avocet	Recurvirostra avoetia	3	Abundant	WV	RC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Red-billed Blue Magpie	Urocissa erythroryncha	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	White-breasted Waterhen	Amaurornis phoenicurus	2	Common	R	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Wood Sandpiper	Tringa glareola	1	Common	PM,WV	LC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Asian Koel	Eudynamis scolopaceus	2	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Bulbul	Pycnonotus sinensis	11	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Eurasian Collared Dove	Streptopelia decaocto	3	Found in Mai Po, Tsim Bei Tsui, Fung Lok Wai	-	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Great Cormorant	Phalacrocorax carbo	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Masked Laughingthrush	Garrulax perspicillatus	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Red-whiskered Bulbul	Pycnonotus jocosus	11	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Spotted Dove	Spilopelia chinensis	3	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	White Wagtail	Motacilla alba	7	Common	PM,WV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Black-collared Starling	Gracupica nigricollis	15	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Black-winged Stilt	Himantopus himantopus	4	Common	PM	RC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Chinese Bulbul	Pycnonotus sinensis	3	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	N	Y

21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Common Moorhen	Gallinula chloropus	1	Common	R	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Common Redshank	Tringa totanus	3	Common	PM	RC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Great Cormorant	Phalacrocorax carbo	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Masked Laughingthrush	Garrulax perspicillatus	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Pied Avocet	Recurvirostra avoetia	1	Abundant	WV	RC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	Pied Kingfisher	Ceryle rudis	1	Uncommon	R	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Mangrove	White-throated Kingfisher	Halcyon smyrnensis	1	Common	R	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Asian Koel	Eudynamys scolopaceus	1	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Azure-winged Magpie	Cyanopica cyanus	1	Introduced	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Black-collared Starling	Gracupica nigricollis	10	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Chinese Bulbul	Pycnonotus sinensis	1	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Crested Myna	Acridotheres cristatellus	3	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Dusky Warbler	Phylloscopus fuscatus	3	Common	PM,WV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Eurasian Collared Dove	Streptopelia decaocto	4	Found in Mai Po, Tsim Bei Tsui, Fung Lok Wai	-	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Eurasian Tree Sparrow	Passer montanus	5	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Masked Laughingthrush	Garrulax perspicillatus	3	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Spotted Dove	Spilopelia chinensis	3	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Chinese Bulbul	Pycnonotus sinensis	7	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Crested Myna	Acridotheres cristatellus	2	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Red-billed Blue Magpie	Urocissa erythroryncha	2	Common	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Red-whiskered Bulbul	Pycnonotus jocosus	3	Abundant	R	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N



21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	White Wagtail	Motacilla alba	4	Common	PM,WV	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	White-breasted Waterhen	Amaurornis phoenicurus	2	Common	R	-	-	-	LC	LC	N	Y
21/03/2023	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	White-shouldered Starling	Sturnia sinensis	1	Common	PM	-	-	-	LC	LC	N	N
21/03/2023	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Chinese Pond Heron	Ardeola bacchus	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Great Cormorant	Phalacrocorax carbo	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
21/03/2023	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Grey Heron	Ardea cinerea	3	Common	WV	PRC	-	-	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.2.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (21 March 2023)**

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Acridotheres cristatellus</i>	14	0.051661	-2.96306	-0.15307	0.453566
<i>Actitis hypoleucos</i>	4	0.01476	-4.21582	-0.06223	0.262335
<i>Alcedo atthis</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Amaurornis phoenicurus</i>	6	0.02214	-3.81036	-0.08436	0.32145
<i>Ardea alba</i>	15	0.055351	-2.89407	-0.16019	0.463596
<i>Ardea cinerea</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Ardeola bacchus</i>	3	0.01107	-4.50351	-0.04985	0.224519
<i>Bubulcus coromandus</i>	9	0.03321	-3.40489	-0.11308	0.385018
<i>Centropus sinensis</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Ceryle rudis</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Chroicocephalus ridibundus</i>	35	0.129151	-2.04677	-0.26434	0.54105
<i>Copsychus saularis</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Corvus macrorhynchos</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Cyanopica cyanus</i>	5	0.01845	-3.99268	-0.07367	0.294124
<i>Dicrurus macrocercus</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Egretta garzetta</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Eudynamys scolopaceus</i>	7	0.02583	-3.65621	-0.09444	0.345295
<i>Gallinula chloropus</i>	9	0.03321	-3.40489	-0.11308	0.385018
<i>Garrulax perspicillatus</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Gracupica nigricollis</i>	21	0.077491	-2.5576	-0.19819	0.50689
<i>Halcyon smyrnensis</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Himantopus himantopus</i>	11	0.04059	-3.20422	-0.13006	0.416744
<i>Hirundo rustica</i>	4	0.01476	-4.21582	-0.06223	0.262335
<i>Lanius schach</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Milvus migrans</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Motacilla alba</i>	10	0.0369	-3.29953	-0.12175	0.401731
<i>Nycticorax nycticorax</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Parus cinereus</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Passer montanus</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Phalacrocorax carbo</i>	10	0.0369	-3.29953	-0.12175	0.401731
<i>Phylloscopus fuscatus</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Prinia flaviventris</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Prinia inornata</i>	2	0.00738	-4.90897	-0.03623	0.177845
<i>Pycnonotus jocosus</i>	15	0.055351	-2.89407	-0.16019	0.463596
<i>Pycnonotus sinensis</i>	17	0.062731	-2.76891	-0.1737	0.480946
<i>Recurvirostra avosetta</i>	4	0.01476	-4.21582	-0.06223	0.262335
<i>Spilopelia chinensis</i>	8	0.02952	-3.52268	-0.10399	0.366325
<i>Streptopelia decaocto</i>	5	0.01845	-3.99268	-0.07367	0.294124
<i>Tachybaptus ruficollis</i>	4	0.01476	-4.21582	-0.06223	0.262335
<i>Tringa glareola</i>	1	0.00369	-5.60212	-0.02067	0.115807
<i>Tringa nebularia</i>	10	0.0369	-3.29953	-0.12175	0.401731
<i>Tringa stagnatilis</i>	12	0.04428	-3.11721	-0.13803	0.430274
<i>Tringa totanus</i>	3	0.01107	-4.50351	-0.04985	0.224519
<i>Urocissa erythroryncha</i>	2	0.00738	-4.90897	-0.03623	0.177845

Zosterops japonicus	1	0.00369	-5.60212	-0.02067	0.115807
Total	271	1	-195.405	-3.32205	11.84188
Richness	45				
SS	11.842				
SQ	11.036				
H	<b>3.322</b>				
S <sup>2</sup> <sub>H</sub>	0.003				

**Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (21 March 2023)**

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
Ardea alba	15	0.130435	-2.03688	-0.26568	0.541159
Ardea cinerea	1	0.008696	-4.74493	-0.04126	0.195777
Ardeola bacchus	3	0.026087	-3.64632	-0.09512	0.346843
Centropus sinensis	2	0.017391	-4.05178	-0.07047	0.285512
Chroicocephalus ridibundus	35	0.304348	-1.18958	-0.36205	0.430686
Egretta garzetta	2	0.017391	-4.05178	-0.07047	0.285512
Himantopus himantopus	11	0.095652	-2.34704	-0.2245	0.526908
Milvus migrans	2	0.017391	-4.05178	-0.07047	0.285512
Phalacrocorax carbo	10	0.086957	-2.44235	-0.21238	0.518701
Recurvirostra avosetta	4	0.034783	-3.35864	-0.11682	0.392363
Tachybaptus ruficollis	4	0.034783	-3.35864	-0.11682	0.392363
Tringa glareola	1	0.008696	-4.74493	-0.04126	0.195777
Tringa nebularia	10	0.086957	-2.44235	-0.21238	0.518701
Tringa stagnatilis	12	0.104348	-2.26003	-0.23583	0.532979
Tringa totanus	3	0.026087	-3.64632	-0.09512	0.346843
Total	115	1	-48.3734	-2.23062	5.795638
Richness	15				
SS	5.796				
SQ	4.976				
H	<b>2.231</b>				
S <sup>2</sup> <sub>H</sub>	0.008				

**Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (21 March 2023)**

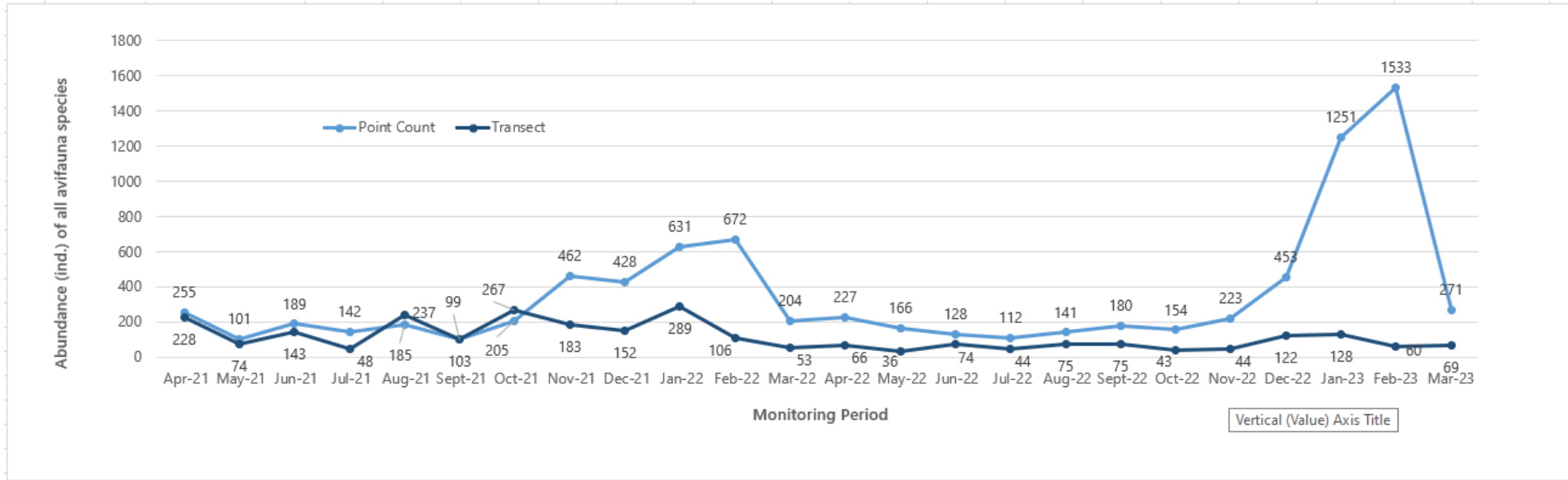
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
Acridotheres cristatellus	5	0.072464	-2.62467	-0.19019	0.499195
Amaurornis phoenicurus	2	0.028986	-3.54096	-0.10264	0.363432
Ardea alba	2	0.028986	-3.54096	-0.10264	0.363432

Ardea cinerea	3	0.043478	-3.13549	-0.13633	0.427449
Ardeola bacchus	3	0.043478	-3.13549	-0.13633	0.427449
Centropus sinensis	1	0.014493	-4.23411	-0.06136	0.259821
Cyanopica cyanus	1	0.014493	-4.23411	-0.06136	0.259821
Egretta garzetta	1	0.014493	-4.23411	-0.06136	0.259821
Eudynamys scolopaceus	1	0.014493	-4.23411	-0.06136	0.259821
Garrulax perspicillatus	3	0.043478	-3.13549	-0.13633	0.427449
Gracupica nigricollis	10	0.144928	-1.93152	-0.27993	0.540692
Motacilla alba	5	0.072464	-2.62467	-0.19019	0.499195
Passer montanus	5	0.072464	-2.62467	-0.19019	0.499195
Phalacrocorax carbo	1	0.014493	-4.23411	-0.06136	0.259821
Phylloscopus fuscatus	3	0.043478	-3.13549	-0.13633	0.427449
Pycnonotus jocosus	3	0.043478	-3.13549	-0.13633	0.427449
Pycnonotus sinensis	8	0.115942	-2.15466	-0.24982	0.53827
Spilopelia chinensis	5	0.072464	-2.62467	-0.19019	0.499195
Streptopelia decaocto	4	0.057971	-2.84781	-0.16509	0.470147
Sturnia sinensis	1	0.014493	-4.23411	-0.06136	0.259821
Urocissa erythroryncha	2	0.028986	-3.54096	-0.10264	0.363432
<b>Total</b>	<b>69</b>	<b>1</b>	<b>-69.1377</b>	<b>-2.81333</b>	<b>8.332354</b>
<b>Richness</b>	<b>21</b>				
<b>SS</b>	<b>8.332</b>				
<b>SQ</b>	<b>7.915</b>				
<b>H</b>	<b>2.813</b>				
<b>S<sup>2</sup><sub>H</sub></b>	<b>0.008</b>				

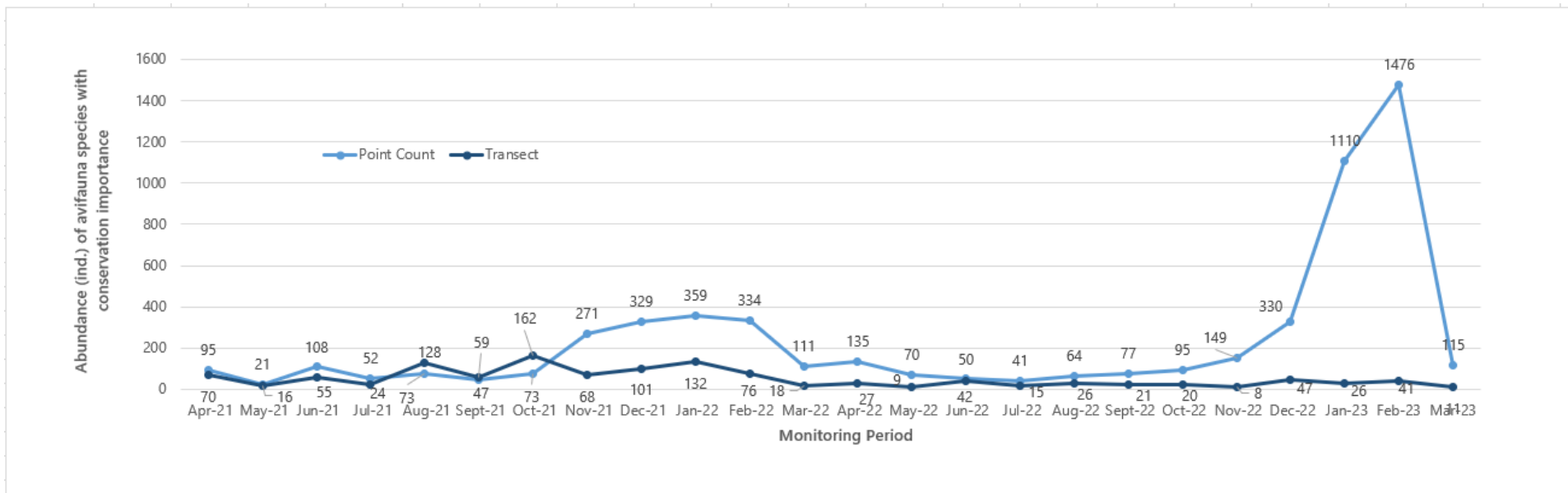
**Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (21 March 2023)**

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
Ardea alba	2	0.181818	-1.70475	-0.30995	0.528394
Ardea cinerea	3	0.272727	-1.29928	-0.35435	0.460401
Ardeola bacchus	3	0.272727	-1.29928	-0.35435	0.460401
Centropus sinensis	1	0.090909	-2.3979	-0.21799	0.522718
Egretta garzetta	1	0.090909	-2.3979	-0.21799	0.522718
Phalacrocorax carbo	1	0.090909	-2.3979	-0.21799	0.522718
<b>Total</b>	<b>11</b>	<b>1</b>	<b>-11.497</b>	<b>-1.67263</b>	<b>3.01735</b>
<b>Richness</b>	<b>6</b>				
<b>SS</b>	<b>3.017</b>				
<b>SQ</b>	<b>2.798</b>				
<b>H</b>	<b>1.673</b>				
<b>S<sup>2</sup><sub>H</sub></b>	<b>0.041</b>				

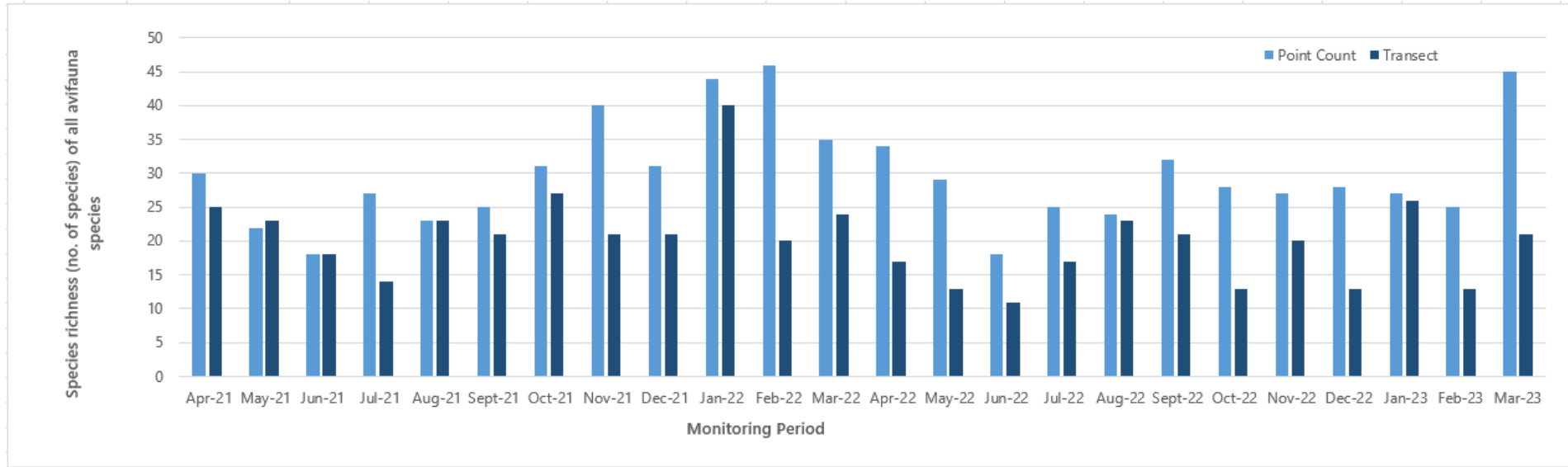
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



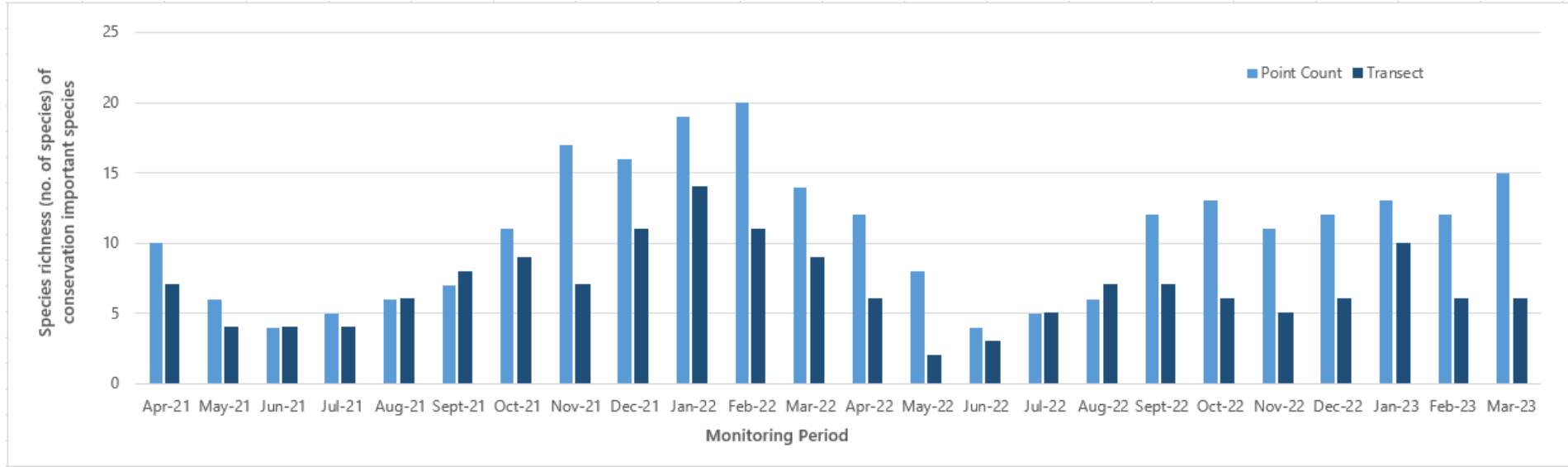
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



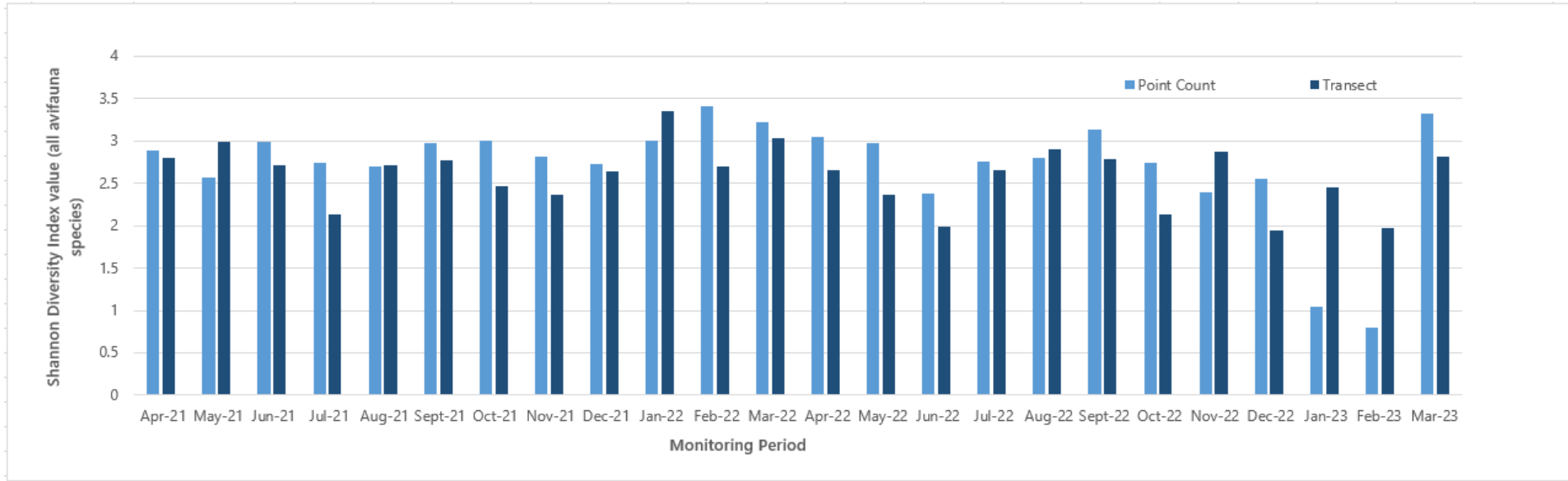
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



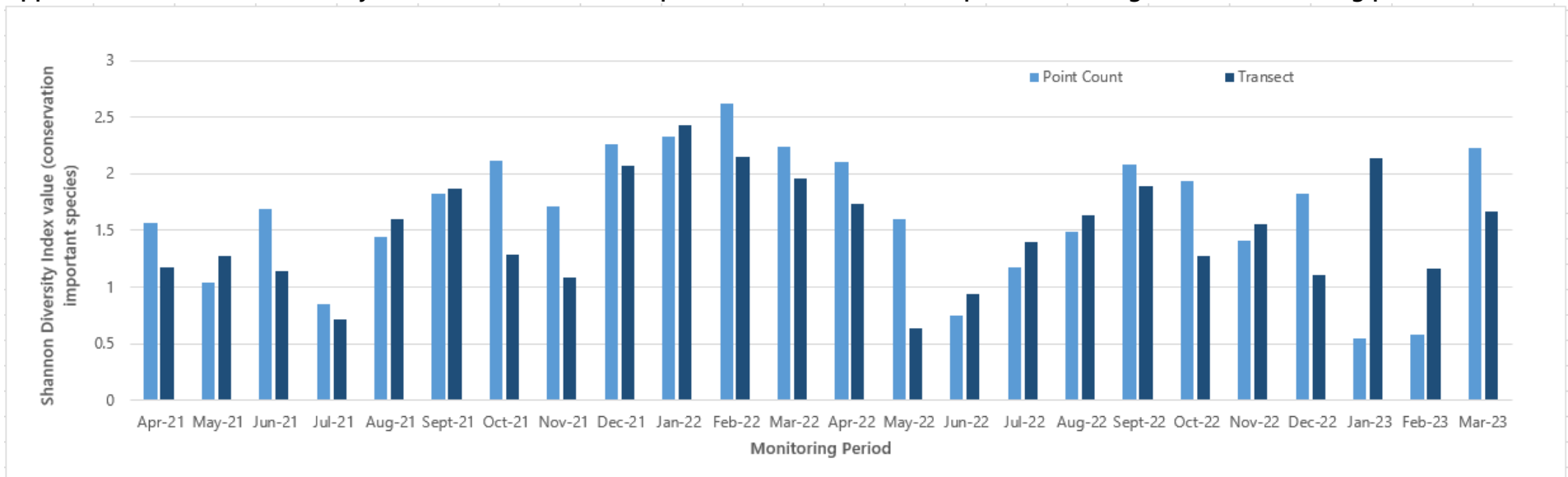
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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



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



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

Formula:

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

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

Months	March 2017	March 2023
Total	607	271
Richness	42	45
H	2.73	3.32
S <sup>2</sup> <sub>H</sub>	0.003	0.003
t	7.690	
df	695.535	
Crit	1.963	
p	0.000	
CI	0.104	0.114

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

Months	March 2017	March 2023
Total	170	69
Richness	33	21
H	2.86	2.81
S <sup>2</sup> <sub>H</sub>	0.007	0.008
t	0.407	
df	179.839	
Crit	1.973	
p	0.684	
CI	0.164	0.181



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

Months	March 2017	March 2023
Total	510	115
Richness	21	15
H	2.21	2.23
S <sup>2</sup> <sub>H</sub>	0.002	0.008
t	0.206	
df	186.565	
Crit	1.973	
p	0.837	
CI	0.093	0.175

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

Months	March 2017	March 2023
Total	44	11
Richness	8	6
H	1.16	1.67
S <sup>2</sup> <sub>H</sub>	0.035	0.041
t	1.869	
df	32.286	
Crit	2.037	
p	0.071	
CI	0.375	0.403