
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 ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
1-Apr-23	Cloudy	8:43	67	81	63	291	500
6-Apr-23	Cloudy	8:46	53	56	74		
12-Apr-23	Fine	8:54	81	74	74		
18-Apr-23	Fine	8:52	60	77	74		
24-Apr-23	Fine	8:51	63	91	77		
29-Apr-23	Cloudy	8:31	102	88	84		
		Min	53				
		Max	102				
		Average	74				

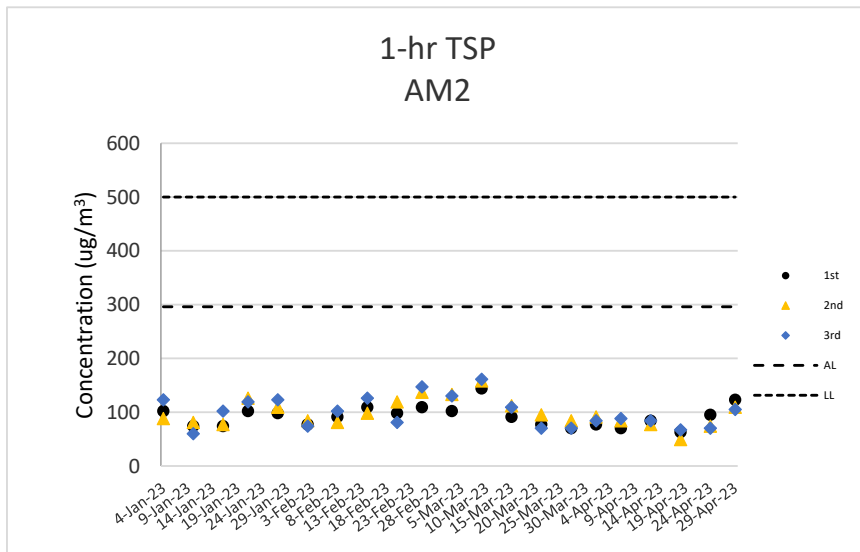
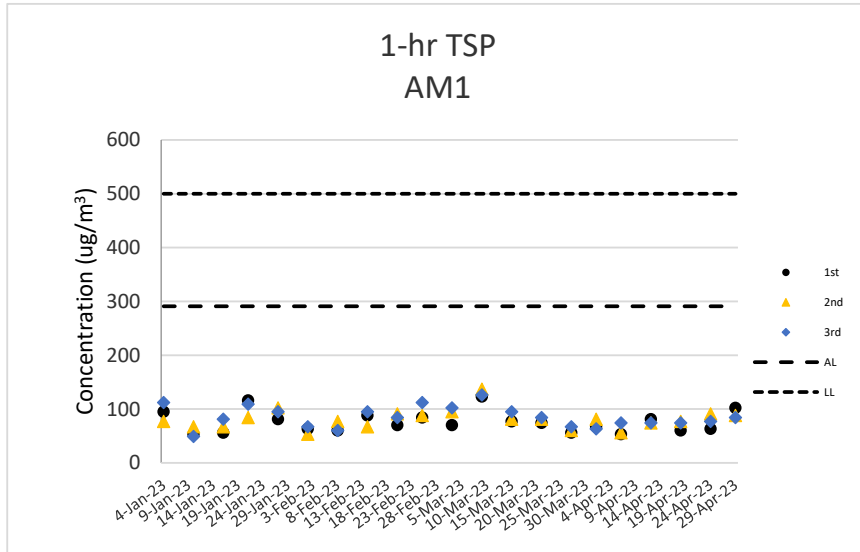
AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
1-Apr-23	Cloudy	8:54	77	91	84	296	500
6-Apr-23	Cloudy	8:37	70	84	88		
12-Apr-23	Fine	8:43	84	77	84		
18-Apr-23	Fine	8:34	63	49	67		
24-Apr-23	Fine	8:39	95	74	70		
29-Apr-23	Cloudy	8:42	123	109	105		
		Min	49				
		Max	123				
		Average	83				

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level



Air Quality Monitoring Results

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 _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6-Apr-23	11:09	51	53	50	0.1	Cloudy	75
12-Apr-23	11:24	51	53	49	0.2	Fine	75
18-Apr-23	11:23	52	56	50	0.1	Fine	75
24-Apr-23	11:23	49	53	46	0.2	Fine	75
	Max	52					
	Min	49					

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)
6-Apr-23	13:05	63	66	57	0.3	Cloudy	75
12-Apr-23	13:13	65	67	58	0.5	Fine	75
18-Apr-23	13:37	64	67	57	0.2	Fine	75
24-Apr-23	13:36	66	69	64	0.3	Fine	75
	Max	66					
	Min	63					

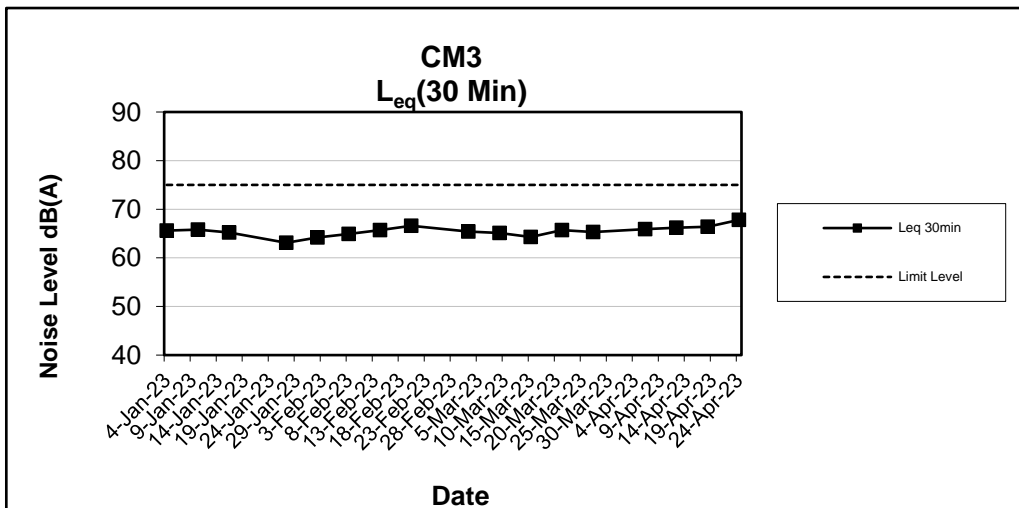
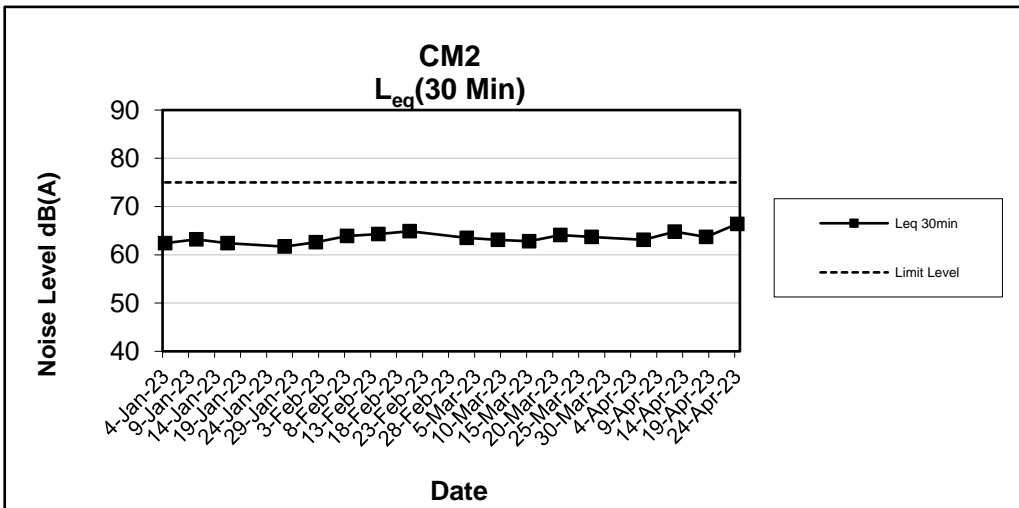
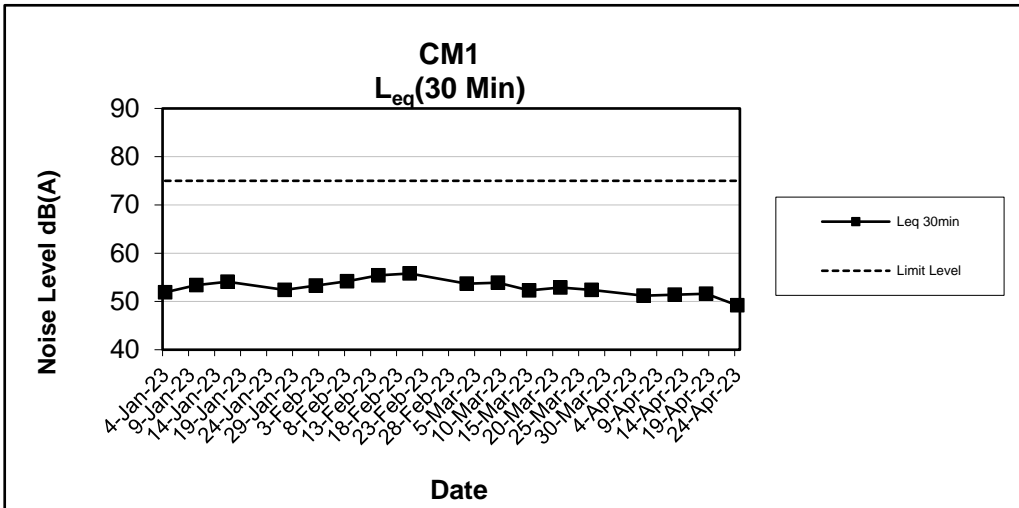
CM3 - Squatter house to the east of YLSTW

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)
6-Apr-23	9:42	66	68	59	0.2	Cloudy	75
12-Apr-23	9:50	66	68	59	0.2	Fine	75
18-Apr-23	9:44	66	69	64	0.2	Fine	75
24-Apr-23	9:47	68	71	65	0.2	Fine	75
	Max	68					
	Min	66					

Note:

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

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



Noise Monitoring Results

Water Quality Monitoring Results

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	1/4/2023	Mid-Flood	Fine	Moderate	16:59	1.4	M	0.7	1	0.073	265	7.22	7.23	11.09	11.09	22.03	22.04	55.3	55.4	4.46	4.47	20.6	20.6	26	27
M1	1/4/2023	Mid-Flood	Fine	Moderate	16:59	1.4	M	0.7	2			7.23		11.08		22.04		55.4		4.48		20.6		28	
M2	1/4/2023	Mid-Flood	Fine	Moderate	16:33	1.1	M	0.55	1	0.085	187	7.23	7.25	11.13	11.14	22.14	22.16	59.0	58.4	4.82	4.84	20.4	20.4	28	28
M2	1/4/2023	Mid-Flood	Fine	Moderate	16:33	1.1	M	0.55	2			7.26		11.14		22.17		58.4		4.85		20.3		28	
M3	1/4/2023	Mid-Flood	Cloudy	Smooth	16:25	0.6	M	0.3	1	0.298	91	7.37	7.38	7.65	7.66	23.75	23.75	73.7	73.3	6.06	6.04	25.0	25.1	76	74
M3	1/4/2023	Mid-Flood	Cloudy	Smooth	16:25	0.6	M	0.3	2			7.38		7.67		23.74		72.9		6.01		25.2		71	
M1	1/4/2023	Mid-Ebb	Fine	Moderate	11:59	1.3	M	0.65	1	0.048	75	6.97	6.98	10.90	10.89	22.50	22.49	61.1	61.3	4.97	4.98	20.6	20.6	28	30
M1	1/4/2023	Mid-Ebb	Fine	Moderate	11:59	1.3	M	0.65	2			6.98		10.87		22.47		61.4		4.99		20.6		32	
M2	1/4/2023	Mid-Ebb	Fine	Moderate	12:27	1	M	0.5	1	0.058	143	7.29	7.29	11.08	11.08	22.22	22.26	64.9	64.9	5.30	5.29	20.7	20.7	28	27
M2	1/4/2023	Mid-Ebb	Fine	Moderate	12:27	1	M	0.5	2			7.28		11.07		22.29		64.8		5.27		20.7		25	
M3	1/4/2023	Mid-Ebb	Cloudy	Smooth	11:51	0.4	M	0.2	1	0.221	262	7.23	7.24	7.08	7.08	22.96	22.97	50.1	50.3	4.09	4.10	26.8	26.8	36	35
M3	1/4/2023	Mid-Ebb	Cloudy	Smooth	11:51	0.4	M	0.2	2			7.24		7.07		22.97		50.5		4.11		26.9		34	

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	4/4/2023	Mid-Flood	Cloudy	Smooth	7:30	2.2	M	1.1	1	0.4	247	7.61	7.62	9.63	9.64	21.05	21.06	45.2	45.5	3.63	3.65	17.1	16.8	22	23
M1	4/4/2023	Mid-Flood	Cloudy	Smooth	7:30	2.2	M	1.1	2			7.63		9.64		21.06		45.7		3.66		16.6		24	
M2	4/4/2023	Mid-Flood	Cloudy	Smooth	7:47	1.2	M	0.6	1	0.382	315	7.88	7.87	9.04	9.04	21.53	21.54	47.7	47.5	3.84	3.83	19.8	19.6	29	30
M2	4/4/2023	Mid-Flood	Cloudy	Smooth	7:47	1.2	M	0.6	2			7.86		9.04		21.55		47.2		3.81		19.5		30	
M3	4/4/2023	Mid-Flood	Cloudy	Smooth	7:27	0.4	M	0.2	1	0.347	92	7.82	7.81	7.71	7.72	21.96	21.97	48.9	49.3	3.94	3.96	24.1	23.7	28	29
M3	4/4/2023	Mid-Flood	Cloudy	Smooth	7:27	0.4	M	0.2	2			7.80		7.73		21.97		49.6		3.98		23.3		30	
M1	4/4/2023	Mid-Ebb	Cloudy	Smooth	13:24	2.4	M	1.2	1	0.365	200	7.60	7.60	8.51	8.51	23.88	23.89	57.2	57.6	4.60	4.63	18.2	18.6	23	24
M1	4/4/2023	Mid-Ebb	Cloudy	Smooth	13:24	2.4	M	1.2	2			7.59		8.50		23.89		57.9		4.65		18.9		24	
M2	4/4/2023	Mid-Ebb	Cloudy	Smooth	13:06	1.2	M	0.6	1	0.357	241	7.74	7.74	7.94	7.94	23.40	23.41	60.4	60.2	4.89	4.87	15.9	15.5	18	19
M2	4/4/2023	Mid-Ebb	Cloudy	Smooth	13:06	1.2	M	0.6	2			7.73		7.94		23.41		59.9		4.85		15.2		20	
M3	4/4/2023	Mid-Ebb	Cloudy	Smooth	13:08	0.6	M	0.3	1	0.324	274	7.69	7.69	6.90	6.90	23.68	23.68	63.4	63.0	5.09	5.06	19.7	19.8	23	23
M3	4/4/2023	Mid-Ebb	Cloudy	Smooth	13:08	0.6	M	0.3	2			7.68		6.89		23.67		62.5		5.03		20.0		23	

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

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	6/4/2023	Mid-Flood	Cloudy	Calm	8:20	2.2	M	1.1	1	0.383	256	7.85	7.85	9.32	9.33	24.04	24.05	62.1	62.5	4.64	4.67	24.6	24.4	20	21
M1	6/4/2023	Mid-Flood	Cloudy	Calm	8:20	2.2	M	1.1	2			7.84		9.34		24.05		62.9		4.69		24.2		21	
M2	6/4/2023	Mid-Flood	Cloudy	Calm	8:36	1.2	M	0.6	1	0.353	308	7.72	7.73	8.29	8.30	24.46	24.46	58.9	58.7	4.47	4.46	21.0	21.5	18	18
M2	6/4/2023	Mid-Flood	Cloudy	Calm	8:36	1.2	M	0.6	2			7.73		8.31		24.46		58.5		4.44		21.9		17	
M3	6/4/2023	Mid-Flood	Cloudy	Calm	8:09	0.4	M	0.2	1	0.326	80	7.60	7.61	7.85	7.85	24.19	24.20	47.8	48.2	3.67	3.70	26.8	26.4	22	24
M3	6/4/2023	Mid-Flood	Cloudy	Calm	8:09	0.4	M	0.2	2			7.62		7.85		24.21		48.6		3.73		25.9		26	
M1	6/4/2023	Mid-Ebb	Cloudy	Calm	14:23	2.4	M	1.2	1	0.403	191	7.69	7.68	7.22	7.23	27.01	27.02	71.6	71.8	5.37	5.38	23.0	22.9	22	22
M1	6/4/2023	Mid-Ebb	Cloudy	Calm	14:23	2.4	M	1.2	2			7.67		7.23		27.02		71.9		5.39		22.7		22	
M2	6/4/2023	Mid-Ebb	Cloudy	Calm	14:04	1.2	M	0.6	1	0.382	232	7.45	7.45	7.04	7.05	26.74	26.74	74.1	73.8	5.56	5.55	17.2	17.7	12	12
M2	6/4/2023	Mid-Ebb	Cloudy	Calm	14:04	1.2	M	0.6	2			7.44		7.05		26.73		73.5		5.53		18.2		12	
M3	6/4/2023	Mid-Ebb	Cloudy	Calm	14:06	0.6	M	0.3	1	0.337	272	7.48	7.49	6.23	6.24	26.87	26.88	70.2	69.9	5.28	5.26	22.2	22.3	28	29
M3	6/4/2023	Mid-Ebb	Cloudy	Calm	14:06	0.6	M	0.3	2			7.49		6.25		26.88		69.6		5.24		22.4		30	

Remark

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

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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	8/4/2023	Mid-Flood	Cloudy	Smooth	8:51	2.4	M	1.2	1	0.418	238	7.86	7.87	10.18	10.17	19.30	19.31	53.2	52.9	4.12	4.10	26.7	26.1	41	41
M1	8/4/2023	Mid-Flood	Cloudy	Smooth	8:51	2.4	M	1.2	2			7.87		10.16		19.31		52.5		4.08		25.5		40	
M2	8/4/2023	Mid-Flood	Cloudy	Smooth	9:06	1.2	M	0.6	1	0.399	287	7.81	7.82	9.09	9.09	19.92	19.92	58.1	58.4	4.45	4.47	24.7	24.7	38	37
M2	8/4/2023	Mid-Flood	Cloudy	Smooth	9:06	1.2	M	0.6	2			7.82		9.08		19.92		58.7		4.49		24.8		35	
M3	8/4/2023	Mid-Flood	Cloudy	Smooth	8:51	0.8	M	0.4	1	0.369	93	7.69	7.70	8.34	8.34	19.47	19.47	55.9	55.7	4.29	4.28	34.3	33.8	45	46
M3	8/4/2023	Mid-Flood	Cloudy	Smooth	8:51	0.8	M	0.4	2			7.71		8.33		19.47		55.4		4.26		33.4		46	
M1	8/4/2023	Mid-Ebb	Cloudy	Smooth	15:24	2.4	M	1.2	1	0.407	207	7.56	7.56	8.16	8.17	22.43	22.43	68.9	69.1	5.15	5.16	22.1	22.4	32	31
M1	8/4/2023	Mid-Ebb	Cloudy	Smooth	15:24	2.4	M	1.2	2			7.55		8.17		22.42		69.2		5.17		22.7		30	
M2	8/4/2023	Mid-Ebb	Cloudy	Smooth	15:05	1.2	M	0.6	1	0.415	229	7.68	7.68	8.02	8.02	22.51	22.52	66.6	66.9	4.99	5.01	25.0	24.7	31	33
M2	8/4/2023	Mid-Ebb	Cloudy	Smooth	15:05	1.2	M	0.6	2			7.67		8.01		22.52		67.1		5.02		24.4		34	
M3	8/4/2023	Mid-Ebb	Cloudy	Smooth	15:05	0.6	M	0.3	1	0.394	264	7.37	7.38	7.59	7.59	22.79	22.79	65.4	65.6	4.90	4.91	36.3	36.7	54	54
M3	8/4/2023	Mid-Ebb	Cloudy	Smooth	15:05	0.6	M	0.3	2			7.38		7.59		22.78		65.7		4.92		37.2		53	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	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	11/4/2023	Mid-Flood	Fine	Moderate	9:58	1.2	M	0.6	1	0.034	175	6.75	6.76	2.63	2.66	24.05	24.06	80.5	80.4	6.67	6.66	20.9	20.9	26	27
M1	11/4/2023	Mid-Flood	Fine	Moderate	9:58	1.2	M	0.6	2			6.77		2.69		24.07		80.2		6.64		6.66		20.9	
M2	11/4/2023	Mid-Flood	Fine	Moderate	10:13	0.9	M	0.45	1	0.063	85	6.80	6.81	3.41	3.42	24.08	24.07	76.9	76.7	6.40	6.39	24.2	24.1	36	35
M2	11/4/2023	Mid-Flood	Fine	Moderate	10:13	0.9	M	0.45	2			6.81		3.42		24.06		76.4		6.38		6.39		24.1	
M3	11/4/2023	Mid-Flood	Fine	Moderate	10:03	1.2	M	0.6	1	0.056	65	6.99	6.97	3.92	3.93	24.09	24.06	82.1	82.2	6.76	6.78	31.7	31.7	44	44
M3	11/4/2023	Mid-Flood	Fine	Moderate	10:03	1.2	M	0.6	2			6.94		3.93		24.02		82.3		6.79		6.78		31.7	
M1	11/4/2023	Mid-Ebb	Fine	Moderate	17:39	1	M	0.5	1	0.062	305	6.71	6.72	5.13	5.14	24.14	24.13	87.1	87.2	7.20	7.22	24.6	24.4	25	25
M1	11/4/2023	Mid-Ebb	Fine	Moderate	17:39	1	M	0.5	2			6.73		5.14		24.12		87.2		7.23		7.22		24.2	
M2	11/4/2023	Mid-Ebb	Fine	Moderate	17:12	0.7	M	0.35	1	0.073	268	6.91	6.92	4.22	4.24	24.19	24.18	83.1	83.2	6.83	6.84	19.2	19.2	36	36
M2	11/4/2023	Mid-Ebb	Fine	Moderate	17:12	0.7	M	0.35	2			6.93		4.26		24.16		83.2		6.85		6.84		19.2	
M3	11/4/2023	Mid-Ebb	Fine	Moderate	16:59	1	M	0.5	1	0.085	164	6.91	6.92	4.26	4.25	24.18	24.18	83.1	83.5	6.83	6.85	31.0	31.0	39	40
M3	11/4/2023	Mid-Ebb	Fine	Moderate	16:59	1	M	0.5	2			6.93		4.23		24.17		83.9		6.87		6.85		31.1	

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	13/4/2023	Mid-Flood	Fine	Moderate	6:25	1.1	M	0.55	1	0.063	115	7.20	7.21	7.70	7.72	24.92	24.92	56.4	56.6	4.46	4.49	20.6	20.6	20	22
M1	13/4/2023	Mid-Flood	Fine	Moderate	6:25	1.1	M	0.55	2			7.21		7.73		24.91		56.8		4.52		20.6		23	
M2	13/4/2023	Mid-Flood	Fine	Moderate	6:51	0.9	M	0.45	1	0.056	71	7.24	7.24	7.68	7.66	25.06	25.07	58.8	58.9	4.65	4.67	18.9	18.9	21	21
M2	13/4/2023	Mid-Flood	Fine	Moderate	6:51	0.9	M	0.45	2			7.23		7.64		25.07		58.9		4.68		18.8		21	
M3	13/4/2023	Mid-Flood	Fine	Moderate	6:34	1.4	M	0.7	1	0.093	86	7.31	7.32	8.34	8.37	24.96	24.97	60.8	60.8	4.56	4.57	28.3	28.3	26	27
M3	13/4/2023	Mid-Flood	Fine	Moderate	6:34	1.4	M	0.7	2			7.32		8.39		24.97		60.8		4.57		28.2		27	
M1	13/4/2023	Mid-Ebb	Fine	Moderate	19:38	1	M	0.5	1	0.046	133	7.27	7.27	7.89	7.87	24.90	24.91	72.2	72.3	5.72	5.72	24.6	24.6	28	27
M1	13/4/2023	Mid-Ebb	Fine	Moderate	19:38	1	M	0.5	2			7.26		7.84		24.91		72.4		5.71		24.6		26	
M2	13/4/2023	Mid-Ebb	Fine	Moderate	19:11	0.7	M	0.35	1	0.103	99	7.37	7.36	0.37	4.38	24.83	24.85	70.4	70.3	5.55	5.53	22.3	22.4	30	30
M2	13/4/2023	Mid-Ebb	Fine	Moderate	19:11	0.7	M	0.35	2			7.34		8.40		24.87		70.2		5.51		22.5		29	
M3	13/4/2023	Mid-Ebb	Fine	Moderate	19:18	1	M	0.5	1	0.045	302	7.34	7.34	8.24	8.23	25.86	25.85	74.2	74.2	4.93	4.94	37.9	37.8	50	50
M3	13/4/2023	Mid-Ebb	Fine	Moderate	19:18	1	M	0.5	2			7.34		8.21		25.84		74.1		4.94		37.8		49	

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	15/4/2023	Mid-Flood	Fine	Moderate	15:39	1	M	0.5	1	0.103	31	7.74	7.74	6.01	6.02	26.03	26.02	75.9	75.8	5.93	5.92	19.2	19.2	24	25
M1	15/4/2023	Mid-Flood	Fine	Moderate	15:39	1	M	0.5	2			7.73		6.02		26.01		75.6		5.90		19.2		25	
M2	15/4/2023	Mid-Flood	Fine	Moderate	15:20	1.3	M	0.65	1	0.067	74	7.83	7.83	6.12	6.12	26.44	26.47	74.8	74.6	5.82	5.81	20.2	20.2	28	27
M2	15/4/2023	Mid-Flood	Fine	Moderate	15:20	1.3	M	0.65	2			7.82		6.11		26.49		74.4		5.79		20.2		26	
M3	15/4/2023	Mid-Flood	Fine	Moderate	15:24	1	M	0.5	1	0.123	313	7.24	7.23	6.84	6.83	27.44	27.45	74.2	74.3	5.69	5.69	30.1	30.1	33	34
M3	15/4/2023	Mid-Flood	Fine	Moderate	15:24	1	M	0.5	2			7.22		6.81		27.46		74.3		5.68		30.2		35	
M1	15/4/2023	Mid-Ebb	Fine	Moderate	11:01	1.1	M	0.55	1	0.073	143	7.62	7.63	6.59	6.59	26.53	26.54	61.2	61.3	4.76	4.78	25.6	25.6	35	34
M1	15/4/2023	Mid-Ebb	Fine	Moderate	11:01	1.1	M	0.55	2			7.64		6.58		26.54		61.4		4.79		25.6		33	
M2	15/4/2023	Mid-Ebb	Fine	Moderate	11:19	0.9	M	0.45	1	0.036	80	7.52	7.51	6.48	6.48	26.41	26.42	60.4	60.5	4.63	4.64	24.1	24.1	29	30
M2	15/4/2023	Mid-Ebb	Fine	Moderate	11:19	0.9	M	0.45	2			7.49		6.47		26.42		60.5		4.64		24.2		30	
M3	15/4/2023	Mid-Ebb	Fine	Moderate	10:55	0.9	M	0.45	1	0.076	143	7.31	7.32	6.83	6.84	26.79	26.77	71.5	71.5	5.51	5.51	29.5	29.5	38	40
M3	15/4/2023	Mid-Ebb	Fine	Moderate	10:55	0.9	M	0.45	2			7.32		6.84		26.74		71.4		5.50		29.4		42	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	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	18/4/2023	Mid-Flood	Fine	Moderate	7:10	1.1	M	0.55	1	0.048	77	7.72	7.73	2.42	2.45	28.71	28.72	83.8	83.6	6.41	6.40	20.4	20.5	27	28
M1	18/4/2023	Mid-Flood	Fine	Moderate	7:10	1.1	M	0.55	2			7.73		2.48		28.73		83.4		6.39		6.40		20.5	
M2	18/4/2023	Mid-Flood	Fine	Moderate	7:33	0.9	M	0.45	1	0.105	322	7.64	7.65	2.59	2.59	28.33	28.34	86.9	86.7	6.67	6.65	21.6	21.6	31	31
M2	18/4/2023	Mid-Flood	Fine	Moderate	7:33	0.9	M	0.45	2			7.66		2.58		28.34		86.4		6.63		6.65		21.5	
M3	18/4/2023	Mid-Flood	Fine	Moderate	7:04	1.2	M	0.6	1	0.067	141	7.71	7.72	3.26	3.25	28.35	28.36	78.3	78.4	5.98	5.99	28.6	28.6	37	38
M3	18/4/2023	Mid-Flood	Fine	Moderate	7:04	1.2	M	0.6	2			7.73		3.24		28.36		78.4		5.99		5.99		28.6	
M1	18/4/2023	Mid-Ebb	Fine	Moderate	13:39	1	M	0.5	1	0.076	265	7.68	7.67	2.16	2.15	28.38	28.36	91.0	91.0	6.99	6.98	21.9	21.9	31	30
M1	18/4/2023	Mid-Ebb	Fine	Moderate	13:39	1	M	0.5	2			7.66		2.14		28.34		90.9		6.97		6.97		21.9	
M2	18/4/2023	Mid-Ebb	Fine	Moderate	13:11	0.8	M	0.4	1	0.085	92	7.76	7.74	1.90	1.92	28.41	28.42	93.8	93.6	7.22	7.21	19.6	19.6	39	39
M2	18/4/2023	Mid-Ebb	Fine	Moderate	13:11	0.8	M	0.4	2			7.72		1.94		28.42		93.4		7.20		7.20		19.6	
M3	18/4/2023	Mid-Ebb	Fine	Moderate	13:09	0.9	M	0.45	1	0.053	70	7.61	7.62	3.14	3.13	28.25	28.23	87.0	86.7	6.66	6.65	31.9	31.9	45	46
M3	18/4/2023	Mid-Ebb	Fine	Moderate	13:09	0.9	M	0.45	2			7.62		3.12		28.21		86.4		6.63		6.63		31.8	

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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	20/4/2023	Mid-Flood	Fine	Moderate	7:58	1.1	M	0.55	1	0.065	76	7.81	7.82	2.41	2.42	25.16	25.17	95.1	95.2	7.73	7.74	23.8	23.8	25	24
M1	20/4/2023	Mid-Flood	Fine	Moderate	7:58	1.1	M	0.55	2			7.82		2.43		25.17		95.2		7.75		7.74		23.7	
M2	20/4/2023	Mid-Flood	Fine	Moderate	8:16	0.9	M	0.45	1	0.093	205	7.86	7.85	2.10	2.12	26.24	26.26	86.8	86.6	7.24	7.23	27.7	27.7	34	35
M2	20/4/2023	Mid-Flood	Fine	Moderate	8:16	0.9	M	0.45	2			7.83		2.13		26.27		86.4		7.22		7.23		27.7	
M3	20/4/2023	Mid-Flood	Fine	Moderate	7:51	1.2	M	0.6	1	0.081	157	7.87	7.87	2.11	2.18	29.95	29.95	89.3	89.5	7.30	7.34	29.7	29.7	38	39
M3	20/4/2023	Mid-Flood	Fine	Moderate	7:51	1.2	M	0.6	2			7.86		2.24		29.94		89.6		7.38		7.34		29.7	
M1	20/4/2023	Mid-Ebb	Fine	Moderate	14:21	1	M	0.5	1	0.113	287	7.94	7.93	1.61	1.62	25.29	25.32	93.9	93.7	7.65	7.63	20.7	20.8	24	24
M1	20/4/2023	Mid-Ebb	Fine	Moderate	14:21	1	M	0.5	2			7.92		1.62		25.34		93.4		7.61		7.63		20.8	
M2	20/4/2023	Mid-Ebb	Fine	Moderate	14:02	0.8	M	0.4	1	0.083	106	7.89	7.89	1.96	1.95	25.23	25.24	95.1	95.2	7.76	7.77	24.1	24.2	35	35
M2	20/4/2023	Mid-Ebb	Fine	Moderate	14:02	0.8	M	0.4	2			7.88		1.94		25.24		95.3		7.78		7.77		24.2	
M3	20/4/2023	Mid-Ebb	Fine	Moderate	13:59	1.1	M	0.55	1	0.074	305	7.73	7.74	3.12	3.12	25.08	25.08	88.7	88.7	7.19	7.18	39.2	39.3	56	56
M3	20/4/2023	Mid-Ebb	Fine	Moderate	13:59	1.1	M	0.55	2			7.74		3.11		25.07		88.6		7.16		7.18		39.3	

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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	22/4/2023	Mid-Flood	Fine	Moderate	8:35	1.2	M	0.6	1	0.051	303	8.12	8.13	10.24	10.24	25.20	25.21	86.4	86.6	6.71	6.72	24.8	24.8	29	30
M1	22/4/2023	Mid-Flood	Fine	Moderate	8:35	1.2	M	0.6	2			8.13		10.23		25.21		86.7		6.72		24.7		31	
M2	22/4/2023	Mid-Flood	Fine	Moderate	8:51	1	M	0.5	1	0.074	345	8.24	8.24	8.24	8.24	25.04	25.03	80.4	80.6	6.51	6.54	23.9	23.9	32	31
M2	22/4/2023	Mid-Flood	Fine	Moderate	8:51	1	M	0.5	2			8.23		8.23		25.02		80.8		6.56		23.9		30	
M3	22/4/2023	Mid-Flood	Fine	Moderate	8:42	1.2	M	0.6	1	0.074	145	8.16	8.17	10.42	10.42	25.10	25.12	87.2	87.3	6.78	6.79	28.1	28.1	22	24
M3	22/4/2023	Mid-Flood	Fine	Moderate	8:42	1.2	M	0.6	2			8.18		10.41		25.14		87.4		6.79		28.1		26	
M1	22/4/2023	Mid-Ebb	Fine	Moderate	15:20	1	M	0.5	1	0.053	241	7.73	7.73	5.84	5.83	25.14	25.13	65.7	65.7	4.83	4.83	22.3	22.4	32	32
M1	22/4/2023	Mid-Ebb	Fine	Moderate	15:20	1	M	0.5	2			7.72		5.81		25.11		65.6		4.82		22.4		32	
M2	22/4/2023	Mid-Ebb	Fine	Moderate	15:02	0.8	M	0.4	1	0.038	75	7.98	7.96	5.97	5.97	25.97	25.96	62.4	62.4	4.90	4.87	25.4	25.4	29	29
M2	22/4/2023	Mid-Ebb	Fine	Moderate	15:02	0.8	M	0.4	2			7.94		5.96		25.94		62.3		4.84		25.3		29	
M3	22/4/2023	Mid-Ebb	Fine	Moderate	15:06	0.9	M	0.45	1	0.104	245	8.24	8.24	10.04	10.04	24.92	24.93	86.4	86.4	6.72	6.72	27.2	27.3	31	31
M3	22/4/2023	Mid-Ebb	Fine	Moderate	15:06	0.9	M	0.45	2			8.23		10.03		24.93		86.3		6.71		27.3		30	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	104	167

For Ebb Tide

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

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

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	25/4/2023	Mid-Flood	Cloudy	Smooth	9:32	2.4	M	1.2	1	0.417	247	7.66	7.66	9.27	9.28	23.55	23.55	60.3	60.1	4.81	4.80	26.4	26.6	29	31
M1	25/4/2023	Mid-Flood	Cloudy	Smooth	9:32	2.4	M	1.2	2			7.65		9.29		23.54		59.9		4.79		26.7		32	
M2	25/4/2023	Mid-Flood	Cloudy	Smooth	9:47	1.2	M	0.6	1	0.393	295	7.80	7.80	8.96	8.95	23.89	23.89	57.4	57.8	4.58	4.61	24.2	24.1	27	27
M2	25/4/2023	Mid-Flood	Cloudy	Smooth	9:47	1.2	M	0.6	2			7.79		8.94		23.89		58.1		4.63		24.0		27	
M3	25/4/2023	Mid-Flood	Cloudy	Smooth	9:29	0.6	M	0.3	1	0.368	96	7.75	7.74	8.73	8.73	23.96	23.97	56.2	56.5	4.49	4.51	32.8	32.6	40	41
M3	25/4/2023	Mid-Flood	Cloudy	Smooth	9:29	0.6	M	0.3	2			7.73		8.72		23.98		56.7		4.52		32.4		41	
M1	25/4/2023	Mid-Ebb	Cloudy	Smooth	17:04	2.2	M	1.1	1	0.43	198	7.71	7.72	8.02	8.03	23.21	23.22	70.5	70.3	5.63	5.62	24.0	23.8	29	30
M1	25/4/2023	Mid-Ebb	Cloudy	Smooth	17:04	2.2	M	1.1	2			7.72		8.03		23.23		70.1		5.60		23.7		30	
M2	25/4/2023	Mid-Ebb	Cloudy	Smooth	16:49	1.2	M	0.6	1	0.403	223	7.86	7.86	7.86	7.87	23.03	23.04	64.3	64.5	5.22	5.23	20.6	20.7	23	22
M2	25/4/2023	Mid-Ebb	Cloudy	Smooth	16:49	1.2	M	0.6	2			7.85		7.88		23.04		64.7		5.24		20.8		21	
M3	25/4/2023	Mid-Ebb	Cloudy	Smooth	16:49	0.4	M	0.2	1	0.386	272	7.63	7.63	6.55	6.56	22.85	22.86	61.5	61.3	4.97	4.96	29.7	29.3	39	40
M3	25/4/2023	Mid-Ebb	Cloudy	Smooth	16:49	0.4	M	0.2	2			7.62		6.56		22.86		61.1		4.95		28.8		41	

Remark

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4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
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	27/4/2023	Mid-Flood	Cloudy	Calm	10:15	2.4	M	1.2	1	0.392	254	7.73	7.73	7.27	7.28	23.31	23.32	58.3	58.6	4.74	4.76	13.0	13.2	14	14
M1	27/4/2023	Mid-Flood	Cloudy	Calm	10:15	2.4	M	1.2	2			7.72		7.29		23.32		58.9		4.78		13.5		14	
M2	27/4/2023	Mid-Flood	Cloudy	Calm	10:30	1.2	M	0.6	1	0.38	302	7.88	7.89	7.12	7.12	23.89	23.89	62.8	62.5	5.13	5.11	14.9	15.1	13	15
M2	27/4/2023	Mid-Flood	Cloudy	Calm	10:30	1.2	M	0.6	2			7.89		7.11		23.89		62.2		5.09		15.3		16	
M3	27/4/2023	Mid-Flood	Cloudy	Calm	10:07	0.6	M	0.3	1	0.333	90	7.84	7.85	6.74	6.75	23.08	23.09	56.6	56.4	4.56	4.54	26.2	26.7	31	31
M3	27/4/2023	Mid-Flood	Cloudy	Calm	10:07	0.6	M	0.3	2			7.86		6.75		23.09		56.1		4.52		27.2		31	
M1	27/4/2023	Mid-Ebb	Cloudy	Calm	18:42	2.2	M	1.1	1	0.412	212	7.68	7.68	6.39	6.40	25.84	25.84	65.6	65.9	5.33	5.35	18.0	17.8	19	19
M1	27/4/2023	Mid-Ebb	Cloudy	Calm	18:42	2.2	M	1.1	2			7.67		6.41		25.83		66.1		5.36		17.6		18	
M2	27/4/2023	Mid-Ebb	Cloudy	Calm	18:27	1.2	M	0.6	1	0.388	231	7.77	7.76	6.13	6.14	25.75	25.76	68.8	68.6	5.62	5.61	15.8	16.0	29	30
M2	27/4/2023	Mid-Ebb	Cloudy	Calm	18:27	1.2	M	0.6	2			7.75		6.15		25.76		68.4		5.60		16.2		31	
M3	27/4/2023	Mid-Ebb	Cloudy	Calm	18:26	0.4	M	0.2	1	0.381	263	7.79	7.79	5.88	5.87	25.47	25.47	70.7	70.5	5.73	5.72	23.0	23.3	49	50
M3	27/4/2023	Mid-Ebb	Cloudy	Calm	18:26	0.4	M	0.2	2			7.78		5.86		25.46		70.3		5.70		23.7		50	

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	29/4/2023	Mid-Flood	Cloudy	Calm	9:00	2.4	M	1.2	1	0.336	246	7.76	7.76	7.97	7.98	23.47	23.48	57.5	57.4	4.61	4.60	18.0	17.9	17	18
M1	29/4/2023	Mid-Flood	Cloudy	Calm	9:00	2.4	M	1.2	2			7.75		7.99		23.49		57.2		4.59		17.7		19	
M2	29/4/2023	Mid-Flood	Cloudy	Calm	9:15	1.2	M	0.6	1	0.319	313	7.86	7.87	7.90	7.90	23.78	23.79	60.9	61.4	4.86	4.89	16.0	16.3	19	20
M2	29/4/2023	Mid-Flood	Cloudy	Calm	9:15	1.2	M	0.6	2			7.87		7.89		23.79		61.8		4.92		16.6		20	
M3	29/4/2023	Mid-Flood	Cloudy	Calm	8:55	0.6	M	0.3	1	0.303	97	7.80	7.80	7.71	7.72	23.90	23.91	59.9	60.1	4.79	4.81	30.7	30.4	34	34
M3	29/4/2023	Mid-Flood	Cloudy	Calm	8:55	0.6	M	0.3	2			7.79		7.73		23.91		60.3		4.82		30.1		33	
M1	29/4/2023	Mid-Ebb	Cloudy	Calm	21:38	2.4	M	1.2	1	0.404	199	7.62	7.62	7.10	7.09	25.51	25.51	74.4	74.1	6.04	6.02	16.3	16.5	19	20
M1	29/4/2023	Mid-Ebb	Cloudy	Calm	21:38	2.4	M	1.2	2			7.61		7.08		25.50		73.7		5.99		16.6		20	
M2	29/4/2023	Mid-Ebb	Cloudy	Calm	21:20	1.2	M	0.6	1	0.37	239	7.73	7.72	6.87	6.88	25.96	25.95	76.7	76.3	6.22	6.20	13.4	13.4	15	15
M2	29/4/2023	Mid-Ebb	Cloudy	Calm	21:20	1.2	M	0.6	2			7.71		6.89		25.94		75.9		6.17		13.4		15	
M3	29/4/2023	Mid-Ebb	Cloudy	Calm	21:21	0.4	M	0.2	1	0.358	270	7.68	7.68	5.94	5.94	26.12	26.11	69.4	69.6	5.61	5.62	21.4	21.3	24	25
M3	29/4/2023	Mid-Ebb	Cloudy	Calm	21:21	0.4	M	0.2	2			7.67		5.93		26.10		69.8		5.63		21.2		25	

Remark

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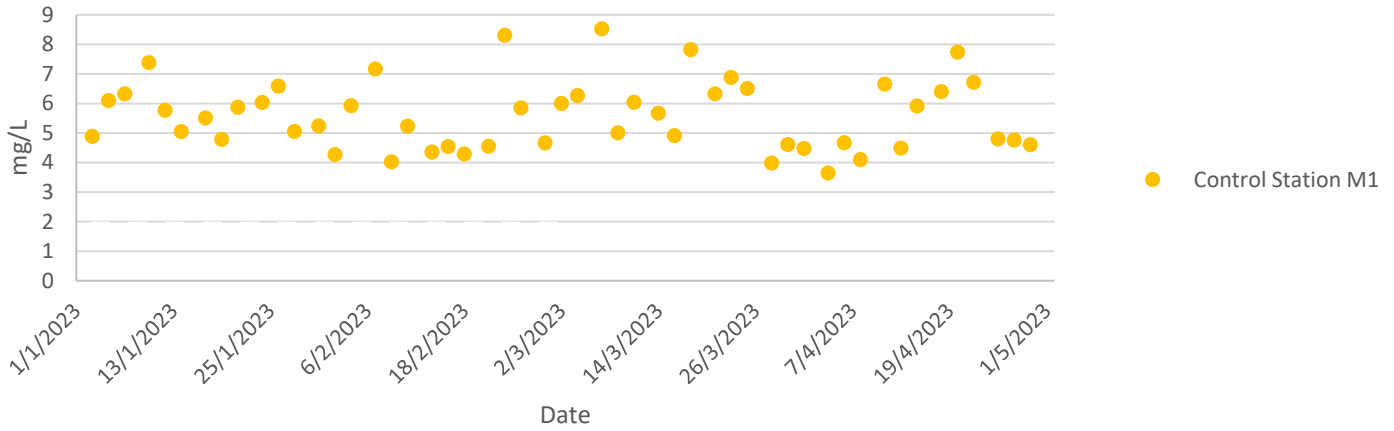
For Flood Tide

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

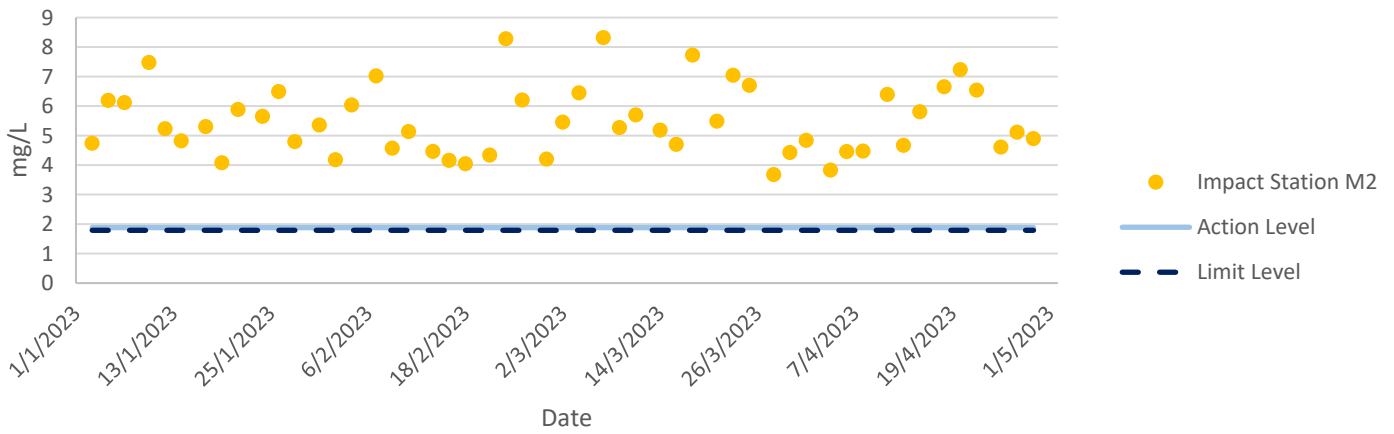
For Ebb Tide

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

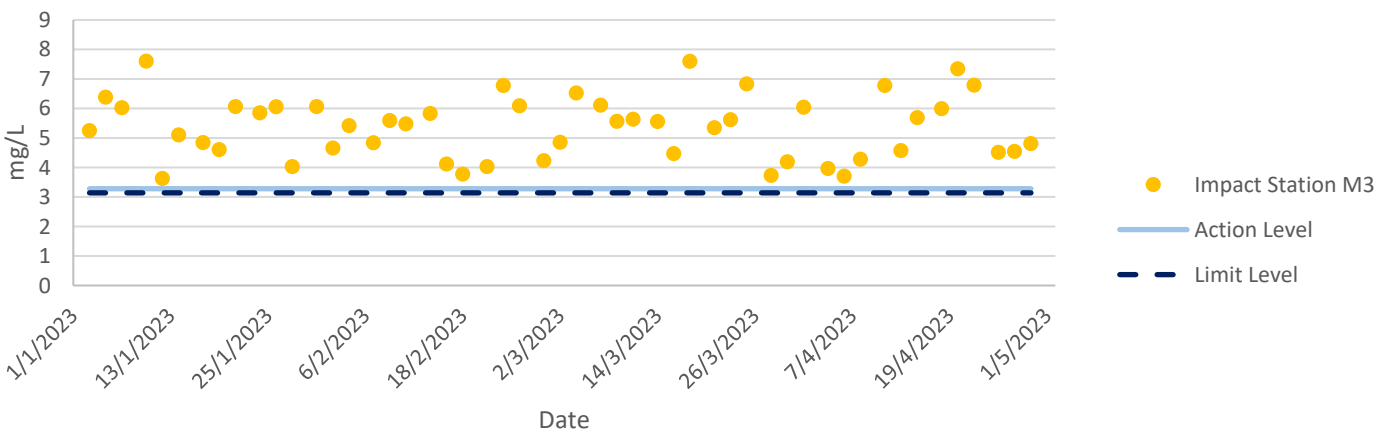
Dissolved Oxygen at Mid-Flood Tide



Dissolved Oxygen at Mid-Flood Tide

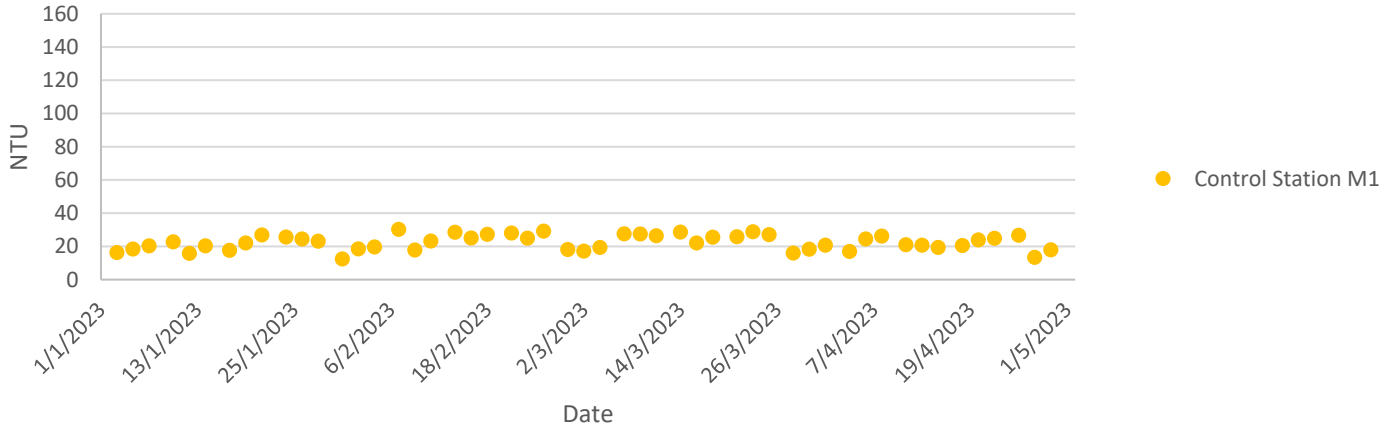


Dissolved Oxygen at Mid-Flood Tide

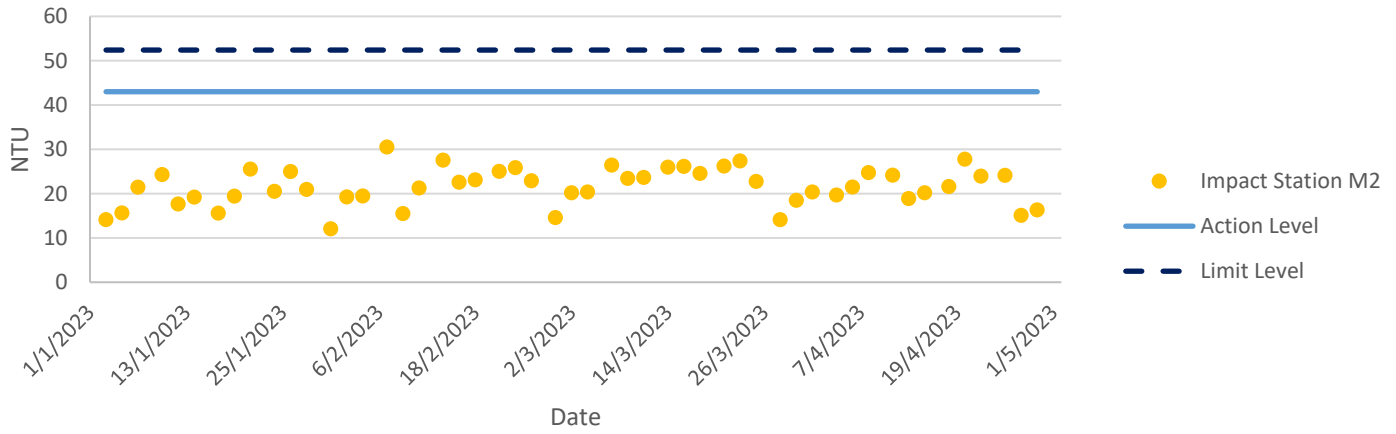


Water Quality Monitoring Results

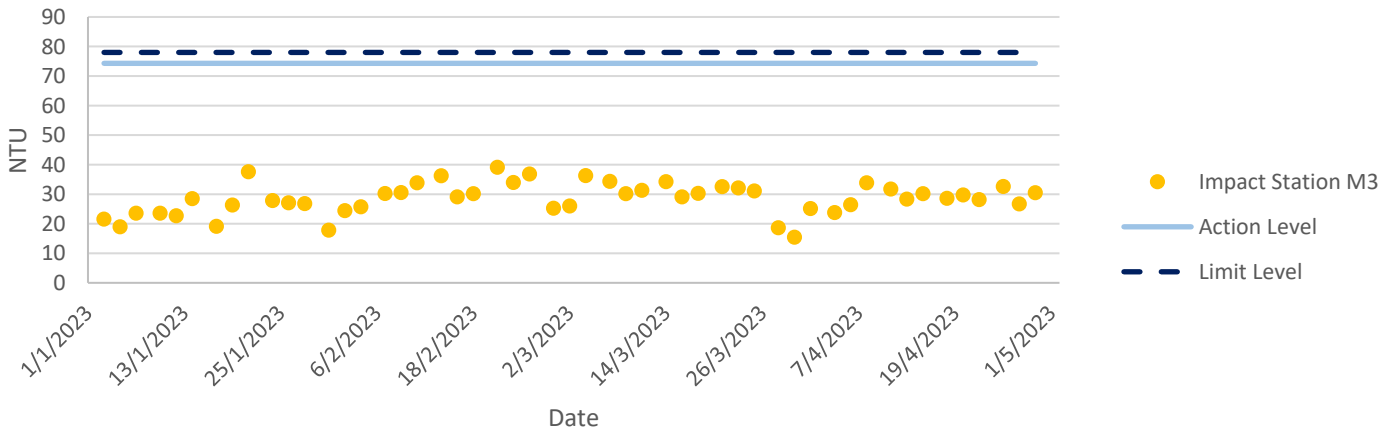
Turbidity at Mid-Flood Tide



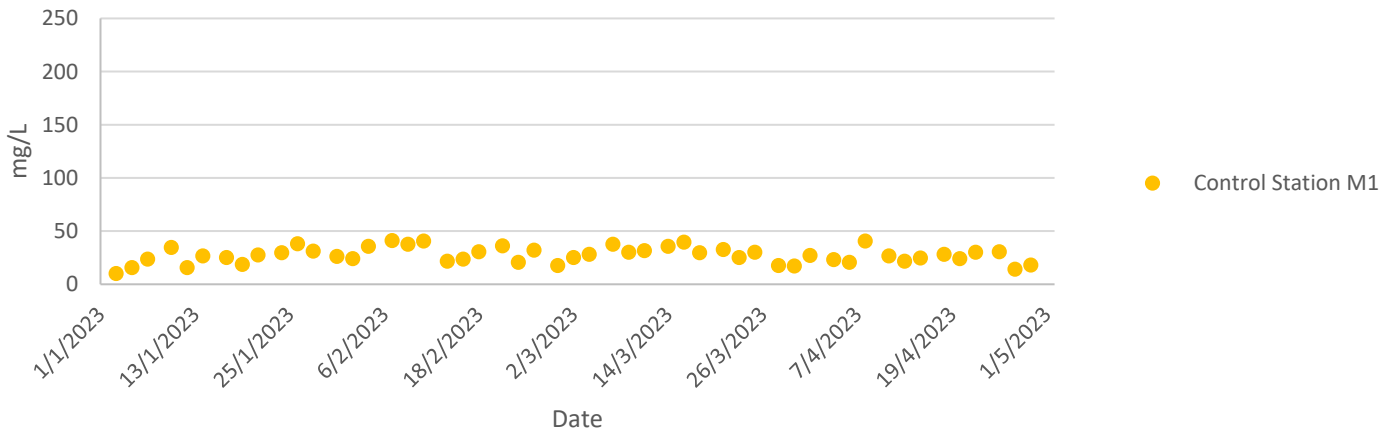
Turbidity at Mid-Flood Tide



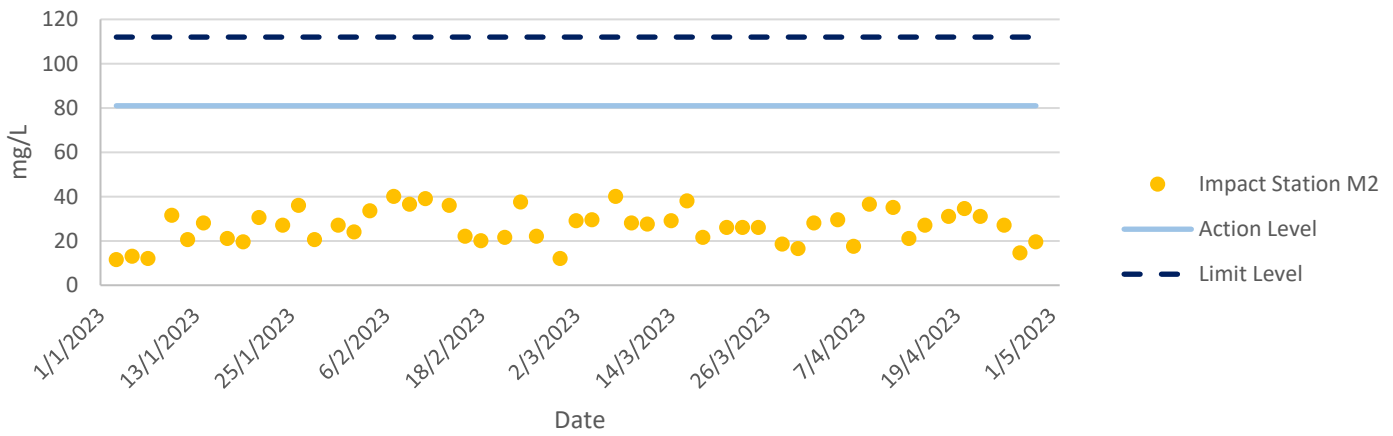
Turbidity at Mid-Flood Tide



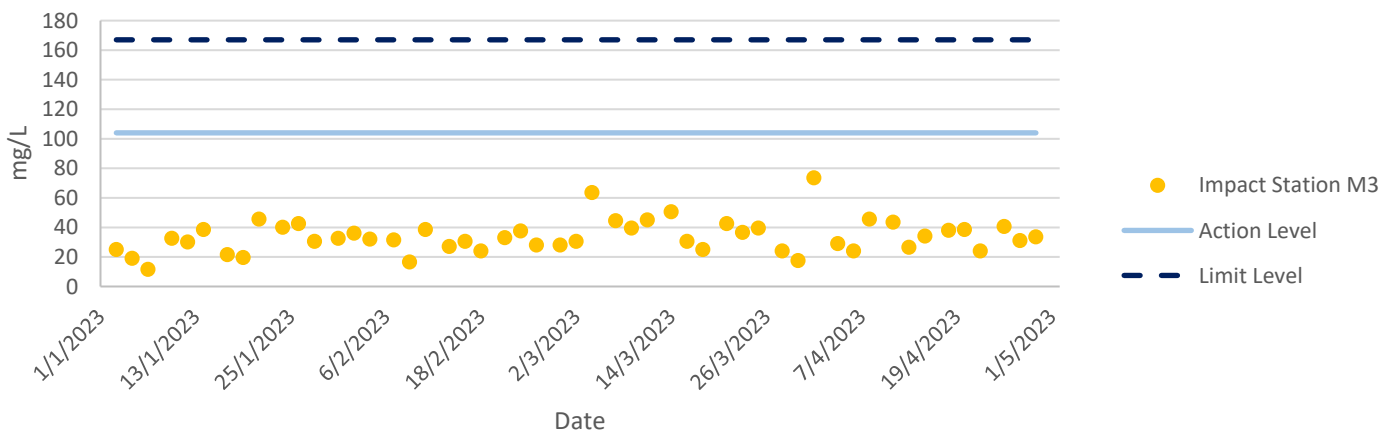
Total Suspended Solids at Mid-Flood Tide



Total Suspended Solids at Mid-Flood Tide

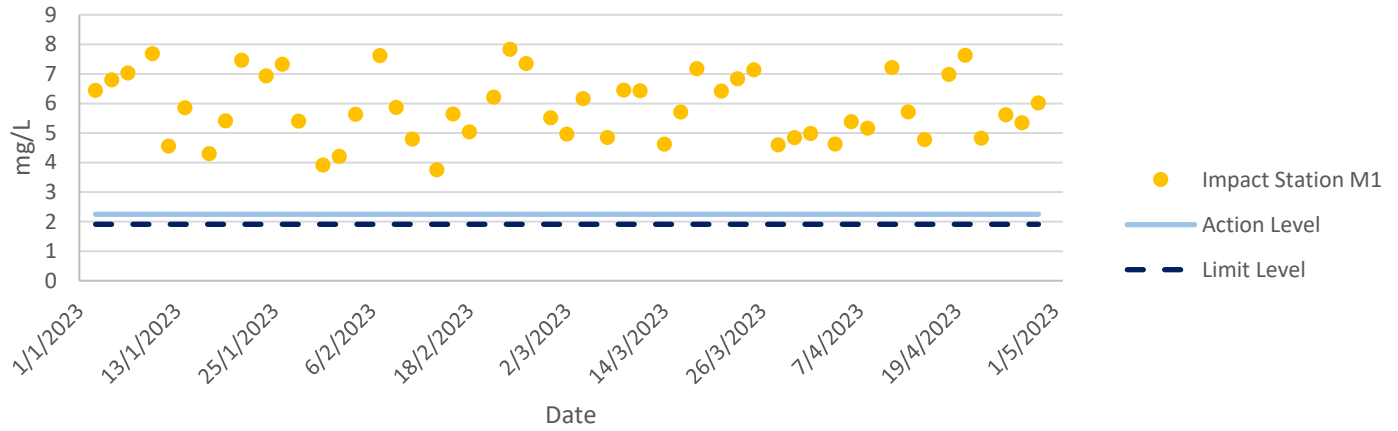


Total Suspended Solids at Mid-Flood Tide

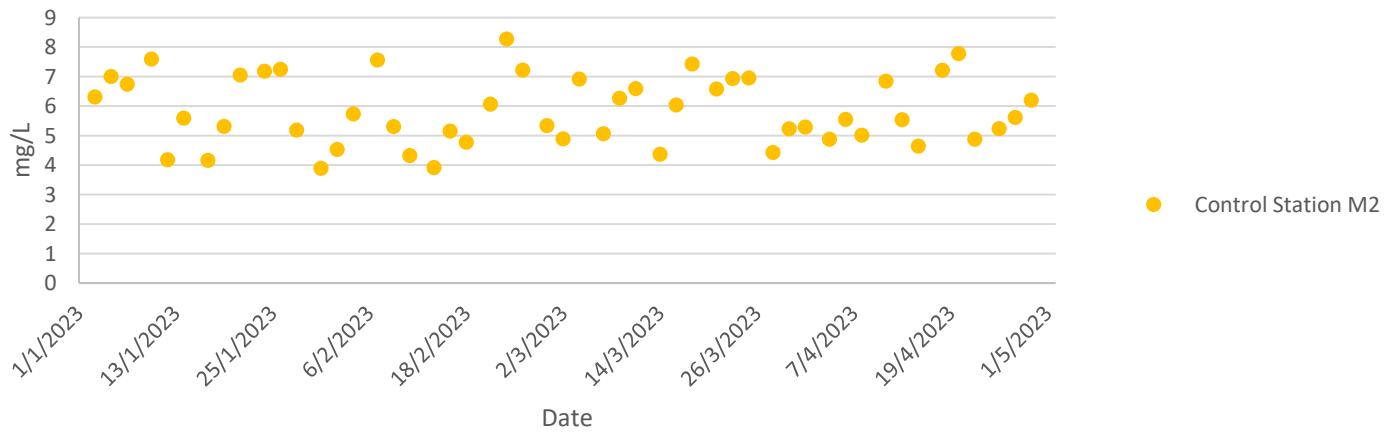


Water Quality Monitoring Results

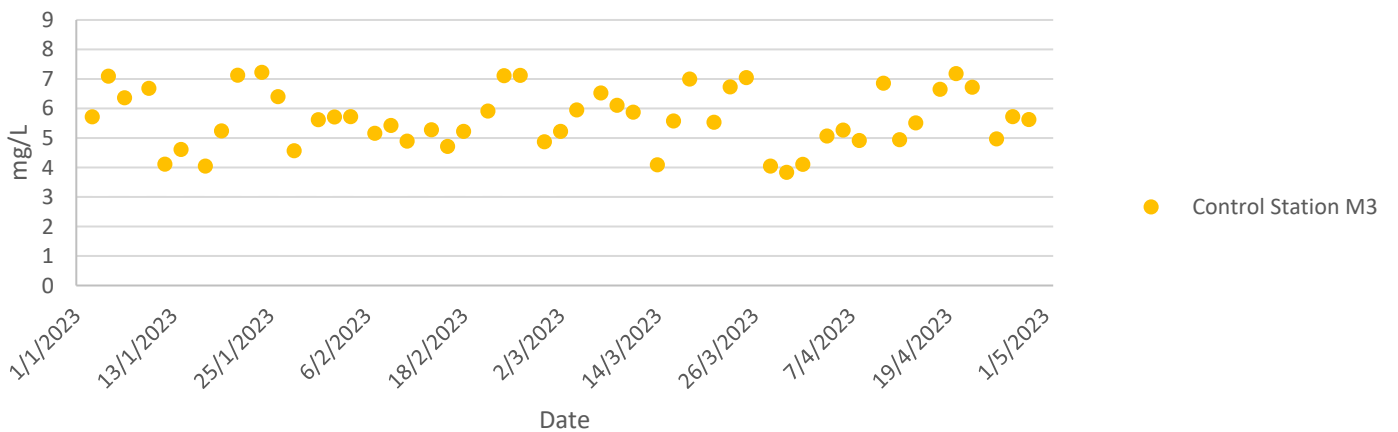
Dissolved Oxygen at Mid-Ebb Tide



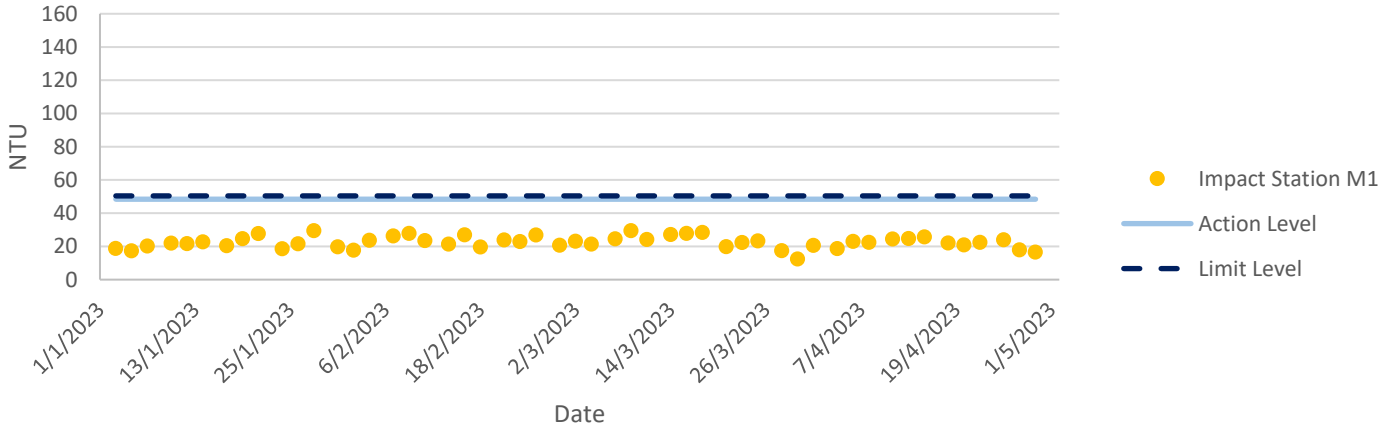
Dissolved Oxygen at Mid-Ebb Tide



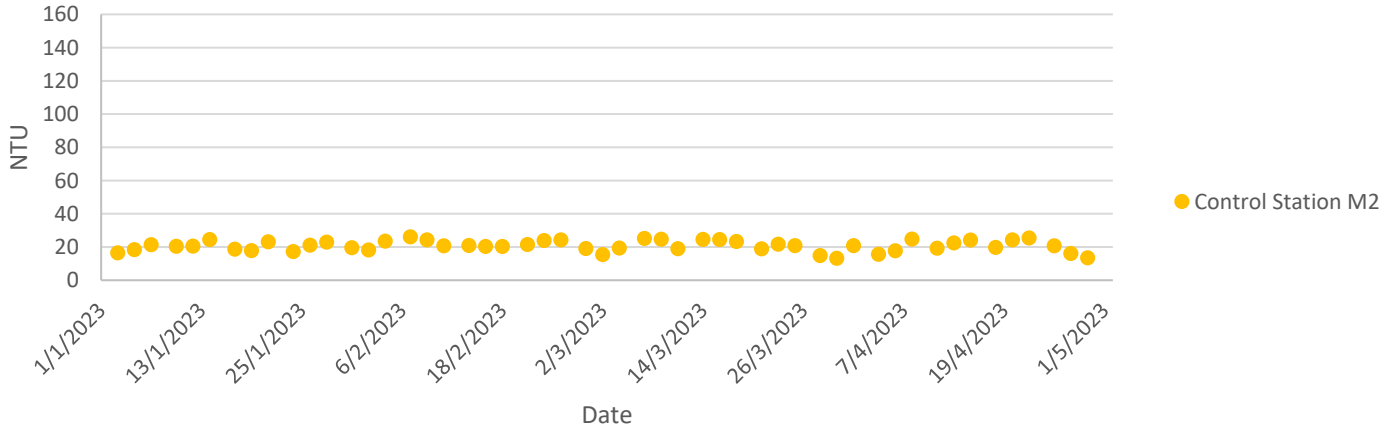
Dissolved Oxygen at Mid-Ebb Tide



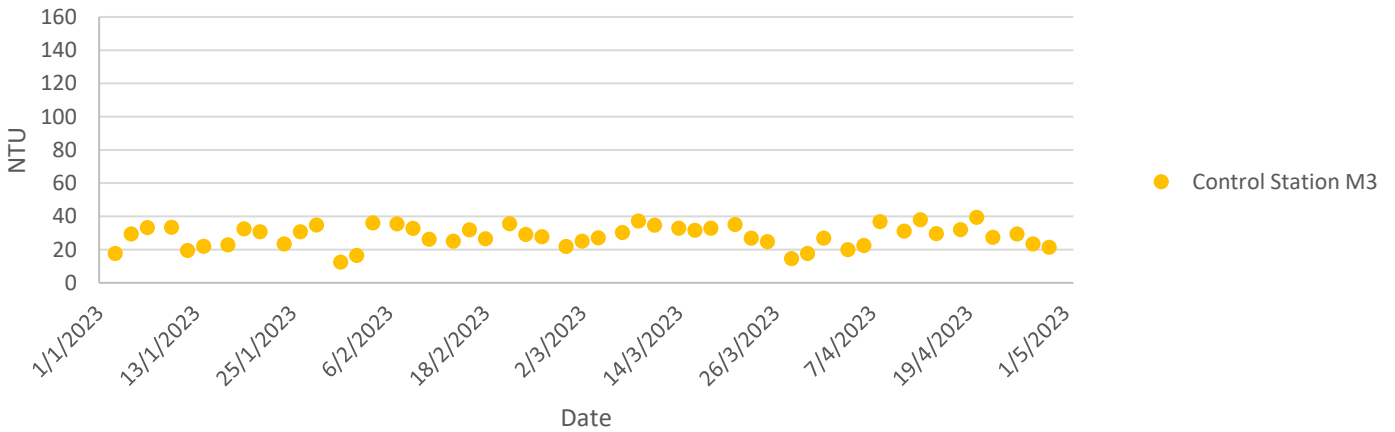
Turbidity at Mid-Ebb Tide



Turbidity at Mid-Ebb Tide

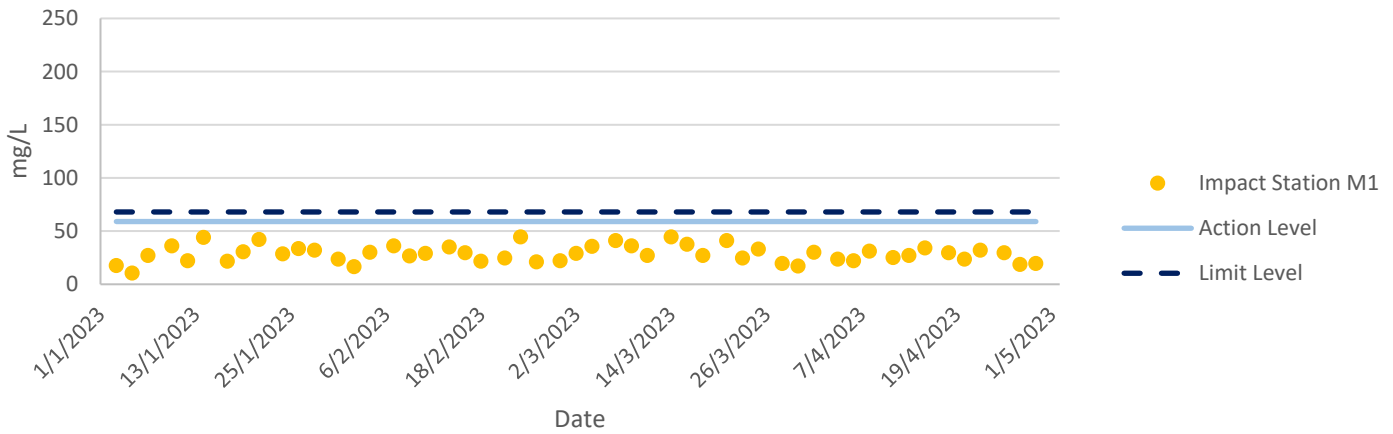


Turbidity at Mid-Ebb Tide

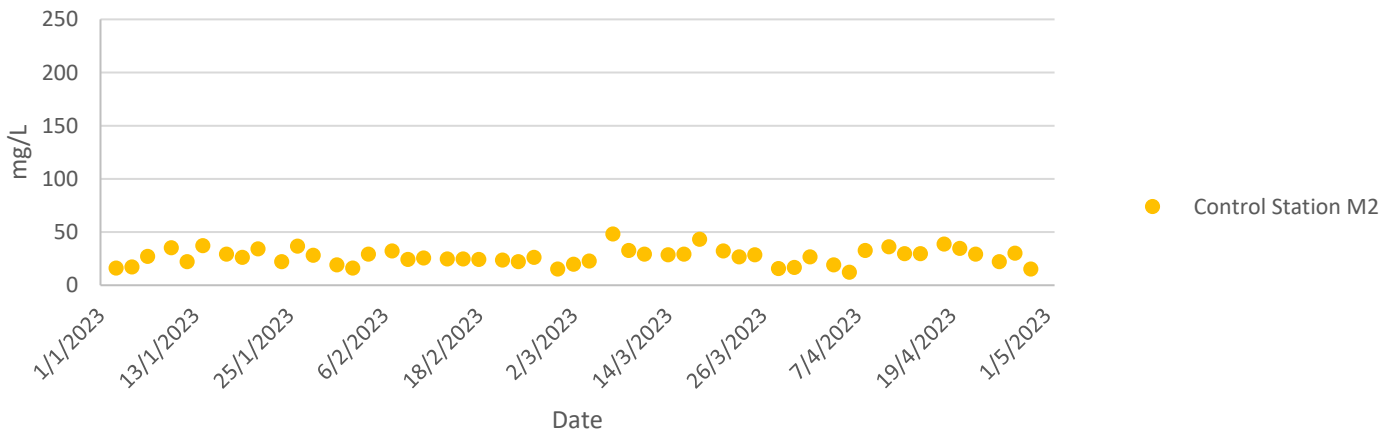


Water Quality Monitoring Results

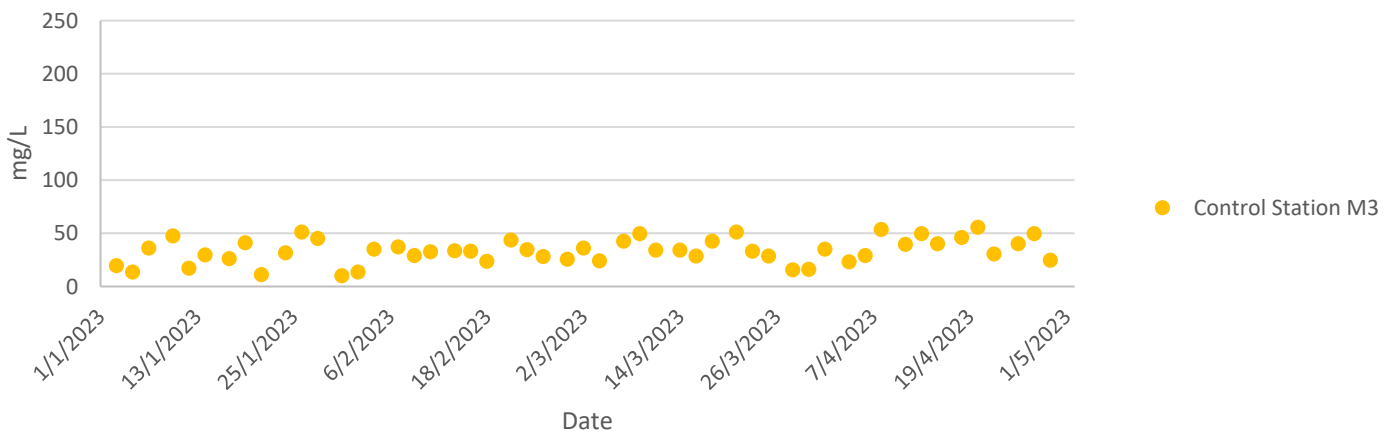
Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Water Quality Monitoring Results

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 (12 & 14 April 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 ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrate s ¹⁰	IUCN Red List ⁷ (v.2020 -3)	Species of Conservation Importance	Wetland Dependent
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV	-	-		LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	3	Common	R,PM	-	-	-	LC	LC	N	Y
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Japanese White-eye	<i>Zosterops japonicus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Northern Shoveler	<i>Anas clypeata</i>	2	Abundant	WV	RC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	2	Abundant	PM,SV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Found in Mai Po, Tsim Bei	-	-	-	-	LC	LC	N	N

										Tsui, Fung Lok Wai								
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Olive-backed Pipit	<i>Anthus hodgsoni</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Asian Koel	<i>Eudynamys scolopaceus</i>	1	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	3	Abundant	PM,SV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	1	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	5	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	5	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	7	Abundant	PM,SV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	2	Found in Mai Po, Tsim Bei Tsui, Fung Lok Wai	-	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	4	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y

14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	5	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Daurian Redstart	<i>Phoenicurus aureus</i>	2	Common	WV	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Black-faced Spoonbill	<i>Platalea minor</i>	1	Common	WV	PGC	Class II	EN	EN	EN	Y	Y	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Common Tailorbird	<i>Orthotomus sutorius</i>	2	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Dusky Warbler	<i>Phylloscopus fuscatus</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Plain Prinia	<i>Prinia inornata</i>	8	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Red-billed Starling	<i>Spodiopsar sericeus</i>	1	Common	WV	GC	-	-	LC	LC	Y	Y	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	3	Common	PM,WV	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Barn Swallow	<i>Hirundo rustica</i>	3	Abundant	PM,SV	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N	
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	2	Found in Mai Po, Tsim Bei Tsui, Fung Lok Wai	-	-	-	-	LC	LC	N	N	

14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Greater Coucal	<i>Centropus sinensis</i>	2	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Japanese White-eye	<i>Zosterops japonicus</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	7	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	White Wagtail	<i>Motacilla alba</i>	4	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	16	Common	PM	RC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Greenshank	<i>Tringa nebularia</i>	1	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	4	Common	R	-	-	-	LC	LC	N	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Daurian Redstart	<i>Phoenicurus aureus</i>	2	Common	WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Great Egret	<i>Ardea alba</i>	14	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	17	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Marsh Sandpiper	<i>Tringa stagnatilis</i>	3	Common	PM,WV	RC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Pied Avocet	<i>Recurvirostra avosetta</i>	3	Abundant	WV	RC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	6	Common	R	-	-	-	LC	LC	N	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Wood Sandpiper	<i>Tringa glareola</i>	1	Common	PM,WV	LC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Great Egret	<i>Ardea alba</i>	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Asian Koel	<i>Eudynamys scolopaceus</i>	1	Common	R	-	-	-	LC	LC	N	N

14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Common Redshank	<i>Tringa totanus</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Great Egret	<i>Ardea alba</i>	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Japanese White-eye	<i>Zosterops japonicus</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Marsh Sandpiper	<i>Tringa stagnatilis</i>	1	Common	PM,WV	RC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Wood Sandpiper	<i>Tringa glareola</i>	1	Common	PM,WV	LC	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	3	Common	R	-	-	-	LC	LC	N	N
14/04/2023	Daytime	Wet Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Daytime	Wet Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Night time	Wet Season	NSW	Transect	NSW	Modified Watercourse	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Night time	Wet Season	NSW	Transect	NSW	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
14/04/2023	Night time	Wet Season	NSW	Point Count	SP/NSW3	Mangrove	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Night time	Wet Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
14/04/2023	Night time	Wet Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (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.2.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (12 & 14 April 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	24	0.114286	-2.16905	-0.24789	0.537691
<i>Amaurornis phoenicurus</i>	11	0.052381	-2.94921	-0.15448	0.455602
<i>Anas clypeata</i>	2	0.009524	-4.65396	-0.04432	0.206279
<i>Anthus hodgsoni</i>	1	0.004762	-5.34711	-0.02546	0.13615
<i>Ardea alba</i>	11	0.052381	-2.94921	-0.15448	0.455602
<i>Ardeola bacchus</i>	9	0.042857	-3.14988	-0.13499	0.425218
<i>Centropus sinensis</i>	5	0.02381	-3.73767	-0.08899	0.332623
<i>Copsychus saularis</i>	1	0.004762	-5.34711	-0.02546	0.13615
<i>Dicrurus macrocercus</i>	1	0.004762	-5.34711	-0.02546	0.13615
<i>Egretta garzetta</i>	14	0.066667	-2.70805	-0.18054	0.488902
<i>Eudynamis scolopaceus</i>	2	0.009524	-4.65396	-0.04432	0.206279
<i>Gallinula chloropus</i>	4	0.019048	-3.96081	-0.07544	0.29882
<i>Garrulax perspicillatus</i>	10	0.047619	-3.04452	-0.14498	0.441387
<i>Gracupica nigricollis</i>	3	0.014286	-4.2485	-0.06069	0.257853
<i>Himantopus himantopus</i>	6	0.028571	-3.55535	-0.10158	0.361157
<i>Hirundo rustica</i>	15	0.071429	-2.63906	-0.1885	0.497473
<i>Milvus migrans</i>	1	0.004762	-5.34711	-0.02546	0.13615
<i>Motacilla alba</i>	16	0.07619	-2.57452	-0.19615	0.505002
<i>Orthotomus sutorius</i>	2	0.009524	-4.65396	-0.04432	0.206279
<i>Phoenicurus aureus</i>	4	0.019048	-3.96081	-0.07544	0.29882
<i>Phylloscopus fuscatus</i>	1	0.004762	-5.34711	-0.02546	0.13615
<i>Prinia flaviventris</i>	9	0.042857	-3.14988	-0.13499	0.425218
<i>Prinia inornata</i>	6	0.028571	-3.55535	-0.10158	0.361157
<i>Pycnonotus jocosus</i>	10	0.047619	-3.04452	-0.14498	0.441387
<i>Pycnonotus sinensis</i>	4	0.019048	-3.96081	-0.07544	0.29882
<i>Recurvirostra avosetta</i>	3	0.014286	-4.2485	-0.06069	0.257853
<i>Spilopelia chinensis</i>	16	0.07619	-2.57452	-0.19615	0.505002
<i>Streptopelia decaocto</i>	5	0.02381	-3.73767	-0.08899	0.332623
<i>Tachybaptus ruficollis</i>	2	0.009524	-4.65396	-0.04432	0.206279
<i>Tringa glareola</i>	2	0.009524	-4.65396	-0.04432	0.206279
<i>Tringa nebularia</i>	1	0.004762	-5.34711	-0.02546	0.13615
<i>Tringa stagnatilis</i>	4	0.019048	-3.96081	-0.07544	0.29882
<i>Tringa totanus</i>	3	0.014286	-4.2485	-0.06069	0.257853
<i>Zosterops japonicus</i>	2	0.009524	-4.65396	-0.04432	0.206279
Total	210	1	-134.133615	-3.16186654	10.58946079
Richness	34				
SS	10.589				
SQ	9.997				
H	3.162				
S2H	0.003				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (12 & 14 April 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	2	0.03175	-3.44999	-0.10952	0.37785
<i>Ardea alba</i>	11	0.17460	-1.74524	-0.30472	0.53182
<i>Ardeola bacchus</i>	9	0.14286	-1.94591	-0.27799	0.54094
<i>Centropus sinensis</i>	5	0.07937	-2.53370	-0.20109	0.50949
<i>Egretta garzetta</i>	14	0.22222	-1.50408	-0.33424	0.50272
<i>Himantopus himantopus</i>	6	0.09524	-2.35138	-0.22394	0.52657
<i>Milvus migrans</i>	1	0.01587	-4.14313	-0.06576	0.27247
<i>Recurvirostra avosetta</i>	3	0.04762	-3.04452	-0.14498	0.44139
<i>Tachybaptus ruficollis</i>	2	0.03175	-3.44999	-0.10952	0.37785
<i>Tringa glareola</i>	2	0.03175	-3.44999	-0.10952	0.37785
<i>Tringa nebularia</i>	1	0.01587	-4.14313	-0.06576	0.27247
<i>Tringa stagnatilis</i>	4	0.06349	-2.75684	-0.17504	0.48255
<i>Tringa totanus</i>	3	0.04762	-3.04452	-0.14498	0.44139
Total	63	1	-37.56241	-2.2670688	5.655363989
Richness	13				
SS	5.655				
SQ	5.140				
H	2.267				
S2H	0.010				

Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (12 & 14 April 2023)

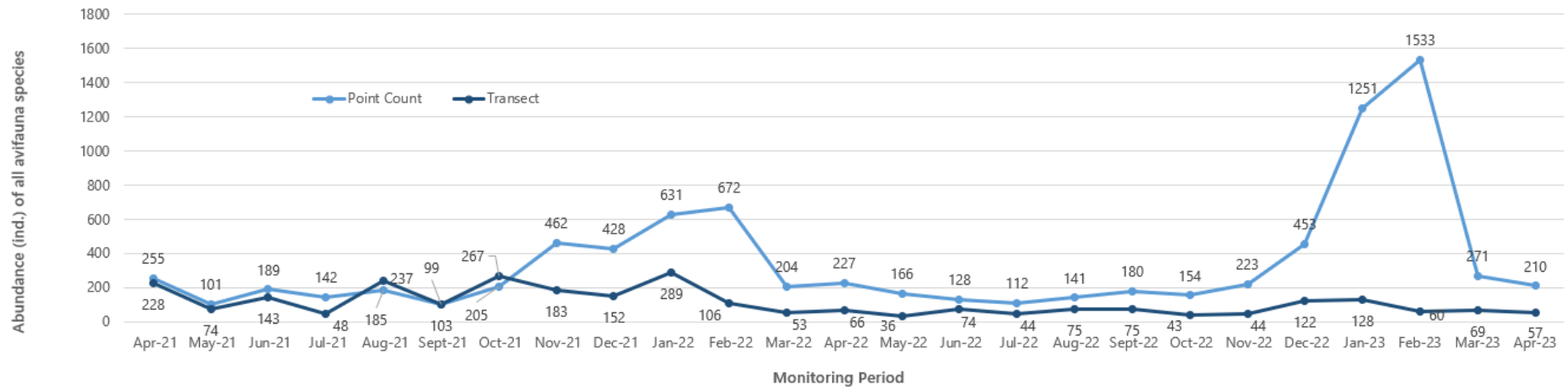
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	4	0.07018	-2.65676	-0.18644	0.49532
<i>Amaurornis phoenicurus</i>	1	0.01754	-4.04305	-0.07093	0.28678
<i>Ardea alba</i>	6	0.10526	-2.25129	-0.23698	0.53351
<i>Ardea cinerea</i>	2	0.03509	-3.34990	-0.11754	0.39375
<i>Ardeola bacchus</i>	1	0.01754	-4.04305	-0.07093	0.28678
<i>Bubulcus coromandus</i>	3	0.05263	-2.94444	-0.15497	0.45630
<i>Copsychus saularis</i>	2	0.03509	-3.34990	-0.11754	0.39375
<i>Dicrurus macrocercus</i>	1	0.01754	-4.04305	-0.07093	0.28678
<i>Egretta garzetta</i>	4	0.07018	-2.65676	-0.18644	0.49532
<i>Gracupica nigricollis</i>	4	0.07018	-2.65676	-0.18644	0.49532
<i>Motacilla alba</i>	4	0.07018	-2.65676	-0.18644	0.49532
<i>Orthotomus sutorius</i>	2	0.03509	-3.34990	-0.11754	0.39375
<i>Phylloscopus fuscatus</i>	2	0.03509	-3.34990	-0.11754	0.39375
<i>Platalea minor</i>	1	0.01754	-4.04305	-0.07093	0.28678
<i>Prinia inornata</i>	8	0.14035	-1.96361	-0.27559	0.54116
<i>Pycnonotus jocosus</i>	4	0.07018	-2.65676	-0.18644	0.49532
<i>Pycnonotus sinensis</i>	4	0.07018	-2.65676	-0.18644	0.49532
<i>Spilopelia chinensis</i>	1	0.01754	-4.04305	-0.07093	0.28678
<i>Spodiopsar sericeus</i>	1	0.01754	-4.04305	-0.07093	0.28678

<i>Zosterops japonicus</i>	2	0.03509	-3.34990	-0.11754	0.39375
Total	57	1	-64.10770	-2.799464	8.192313791
Richness	20				
SS	8.192				
SQ	7.837				
H	2.799				
S ² H	0.009				

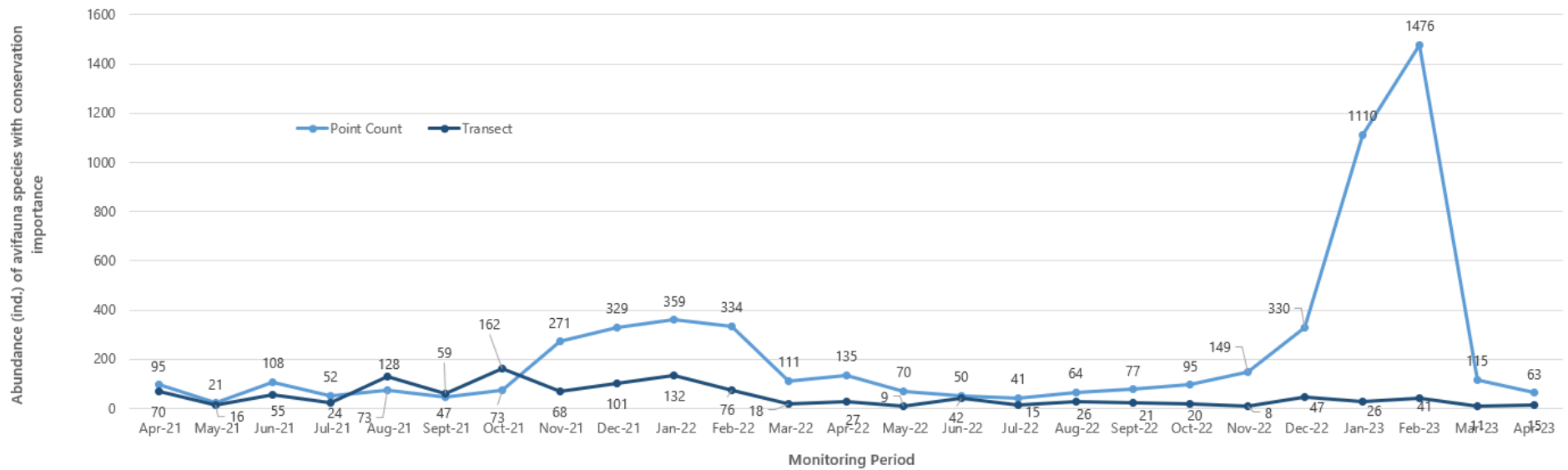
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (12 & 14 April 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardea alba</i>	6	0.40000	-0.91629	-0.36652	0.33584
<i>Ardea cinerea</i>	2	0.13333	-2.01490	-0.26865	0.54131
<i>Ardeola bacchus</i>	1	0.06667	-2.70805	-0.18054	0.48890
<i>Egretta garzetta</i>	4	0.26667	-1.32176	-0.35247	0.46588
<i>Platalea minor</i>	1	0.06667	-2.70805	-0.18054	0.48890
<i>Spodiopsar sericeus</i>	1	0.06667	-2.70805	-0.18054	0.48890
Total	15	1	-12.37710	-1.529248	2.809730818
Richness	6				
SS	2.810				
SQ	2.339				
H	1.529				
S ² H	0.043				

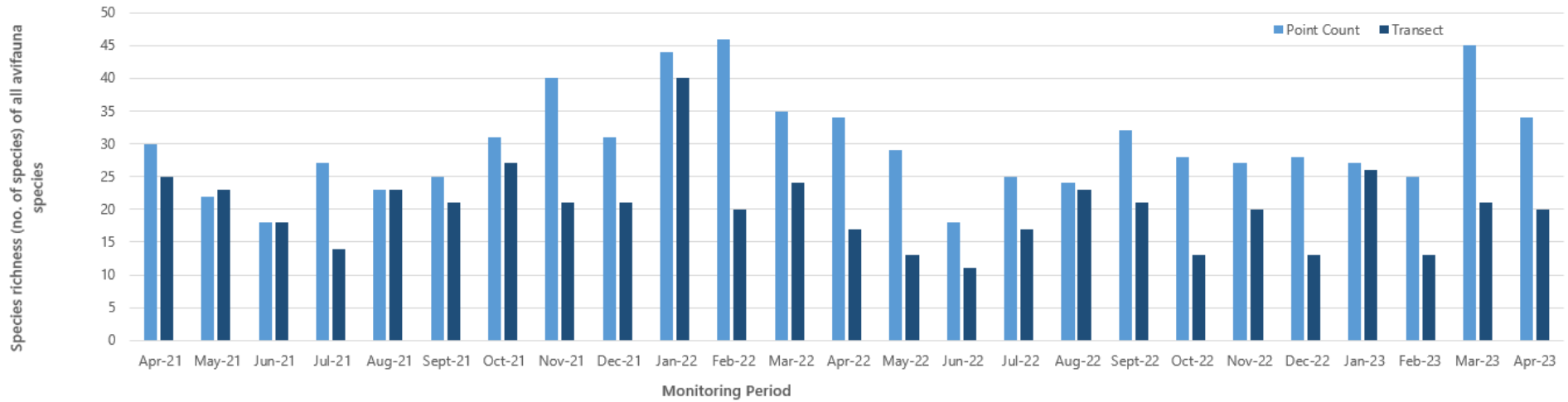
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



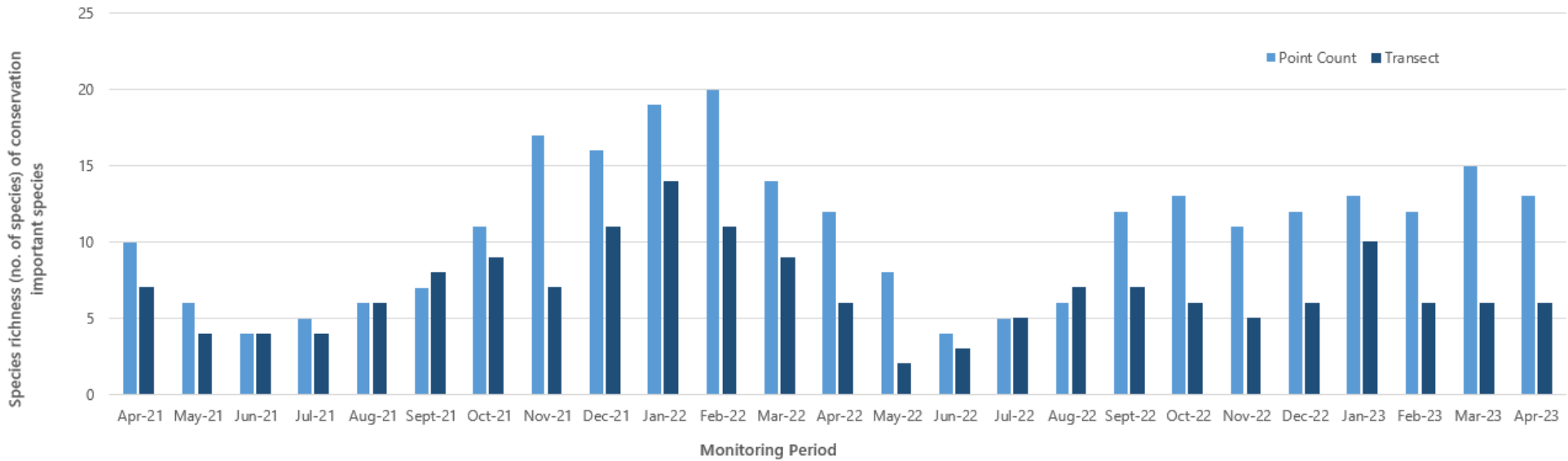
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



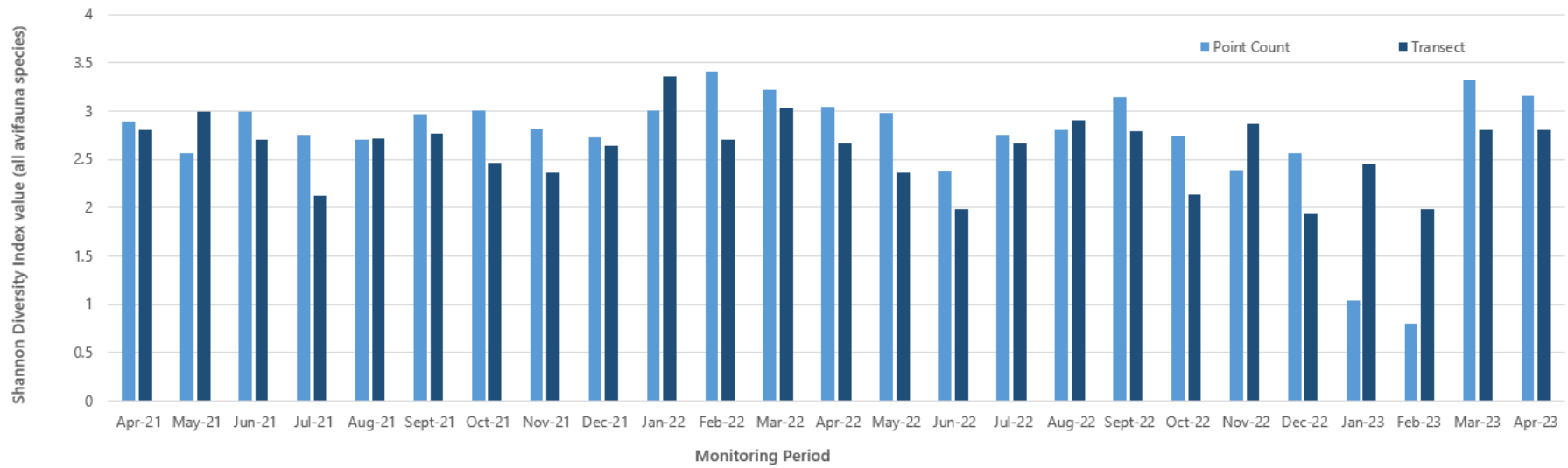
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



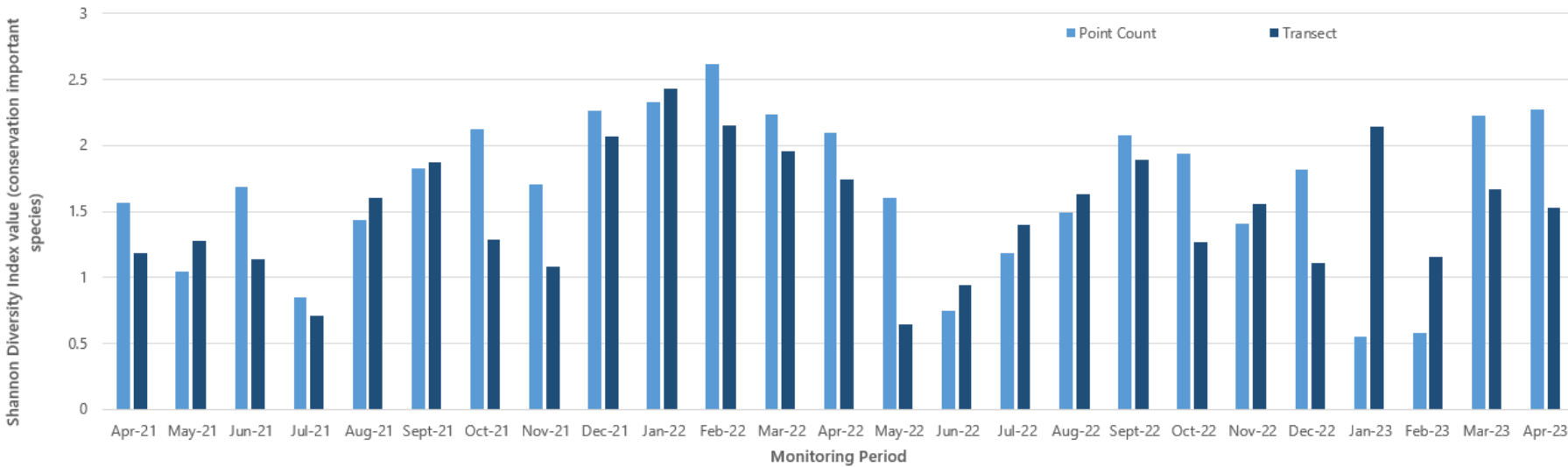
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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	April 2017	April 2023
Total	298	210
Richness	41	34
H	3.16	3.16
S ² _H	0.003	0.003
t	0.022	
df	497.932	
Crit	1.965	
p	0.983	
CI	0.117	0.113

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

Months	April 2017	April 2023
Total	47	57
Richness	13	20
H	2.10	2.80
S ² _H	0.022	0.009
t	3.963	
df	82.008	
Crit	1.989	
p	0.000	
CI	0.299	0.191

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

Months	April 2017	April 2023
Total	200	63
Richness	13	13
H	2.24	2.27
S ² _H	0.002	0.010
t	0.234	
df	93.595	
Crit	1.986	
p	0.815	
CI	0.094	0.197

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

Months	April 2017	April 2023
Total	1	15
Richness	1	6
H	0.00	1.53
S ² _H	0.000	0.043
t	7.416	
df	15	
Crit	2.131	
p	0.000	
CI	0.000	0.412