Air Quality Monitoring Results

1-hour TSP Monitoring Result for

Contract No. SPW 07/2020

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

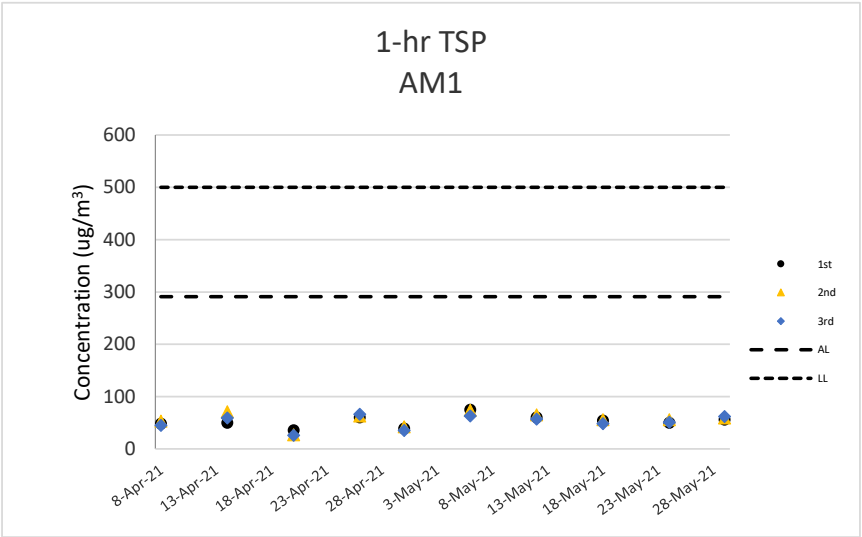
AM1 - Topfine Machinery (China) Co. Ltd.

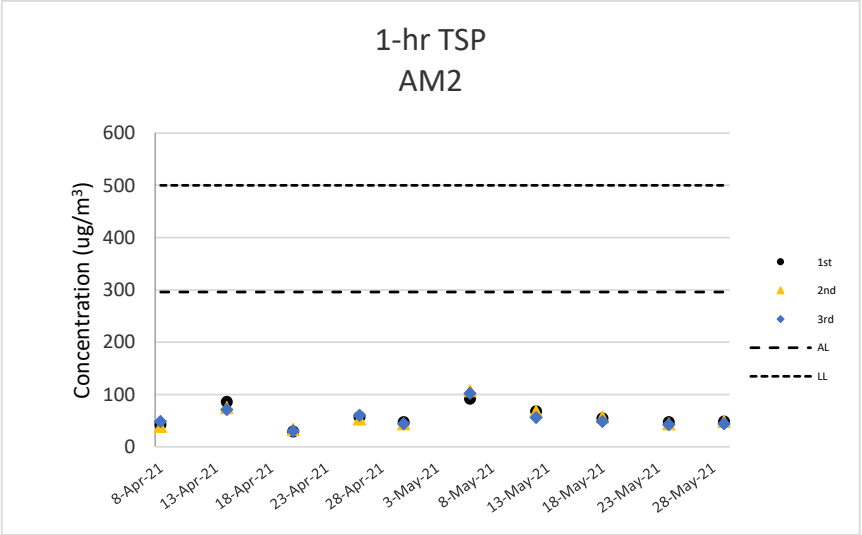
Date	Weather Condition	Start Time	1-hour TSP (µg/m³) 1st Measurement	2nd Measurement	3rd Measurement	Action Level (ug/m^3)	Limit Level (ug/m^3)
6-May-21	Fine	11:03	75	74	63	291	500
12-May-21	Fine	09:28	60	65	57		
18-May-21	Fine	10:35	54	56	48		
24-May-21	Cloudy	10:17	50	56	51		
29-May-21	Fine	09:07	56	59	62		
		Min	48				
		Max	75				
		Average	59				

AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Start Time	1-hour TSP (µg/m³) 1st Measurement	2nd Measurement	3rd Measurement	Action Level (ug/m^3)	Limit Level (ug/m^3)
6-May-21	Fine	12:17	92	107	102	296	500
12-May-21	Fine	10:00	68	68	56		
18-May-21	Fine	10:48	54	57	48		
24-May-21	Cloudy	10:02	47	44	42		
29-May-21	Fine	09:16	48	48	44		
		Min	42				
		Max	107				
		Average	62				

Note:
Underline: Exceedance of Action Level
Underline and Bold: Exceedance of Limit Level


1-hr TSP
AM1
Concentration (ug/m³)
600
500
400
300
200
100
0
8-Apr-21
13-Apr-21
18-Apr-21
23-Apr-21
28-Apr-21
3-May-21
8-May-21
13-May-21
18-May-21
23-May-21
28-May-21
1st
2nd
3rd
AL
LL


1-hr TSP
AM2
Concentration (ug/m³)
600
500
400
300
200
100
0
8-Apr-21
13-Apr-21
18-Apr-21
23-Apr-21
28-Apr-21
3-May-21
8-May-21
13-May-21
18-May-21
23-May-21
28-May-21
1st
2nd
3rd
AL
LL

Noise Monitoring Results

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

CM1 - Squatter house to the north of YLSTW

Date	Start Time	L_{eq} 30min dB(A)	L_{10} dB(A)	L_{90} dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6-May-21	13:47	60	64	56	0.8	Fine	75
12-May-21	13:21	60	67	58	0.9	Fine	75
18-May-21	11:11	63	66	54	0.0	Fine	75
24-May-21	10:52	60	64	53	0.3	Cloudy	75
	Max	63					
	Min	60					

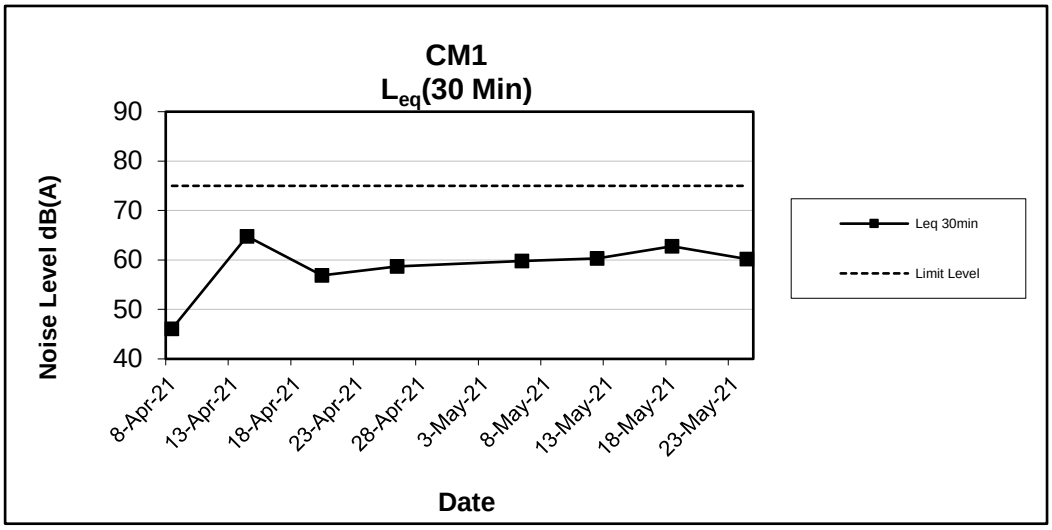
CM2 - Squatter house to the west of YLSTW

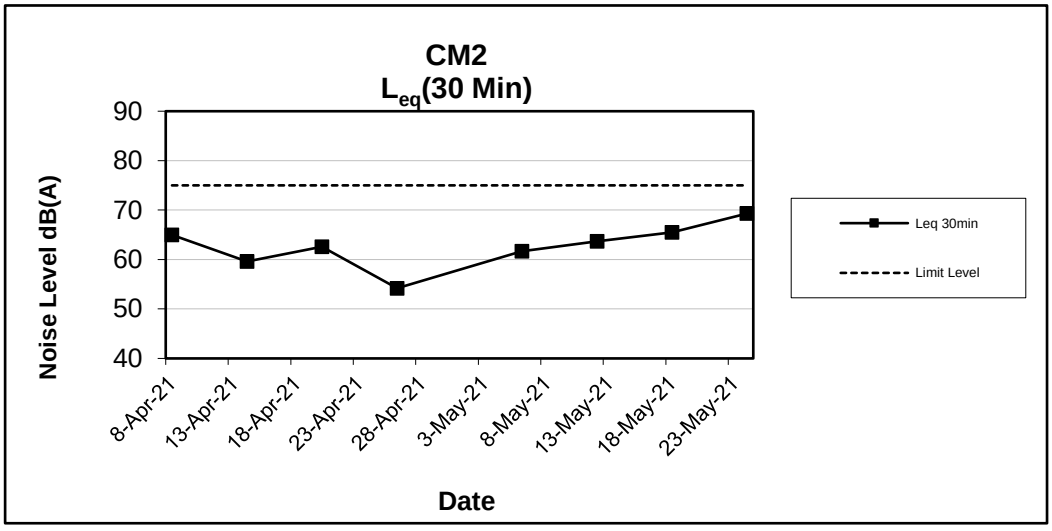
Date	Start Time	L_{eq} 30min dB(A)	L_{10} dB(A)	L_{90} dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6-May-21	12:28	62	65	59	0.6	Fine	75
12-May-21	12:31	64	70	60	0.7	Fine	75
18-May-21	10:55	66	68	59	0.2	Fine	75
24-May-21	10:08	69	72	60	0.2	Cloudy	75
	Max	69					
	Min	62					

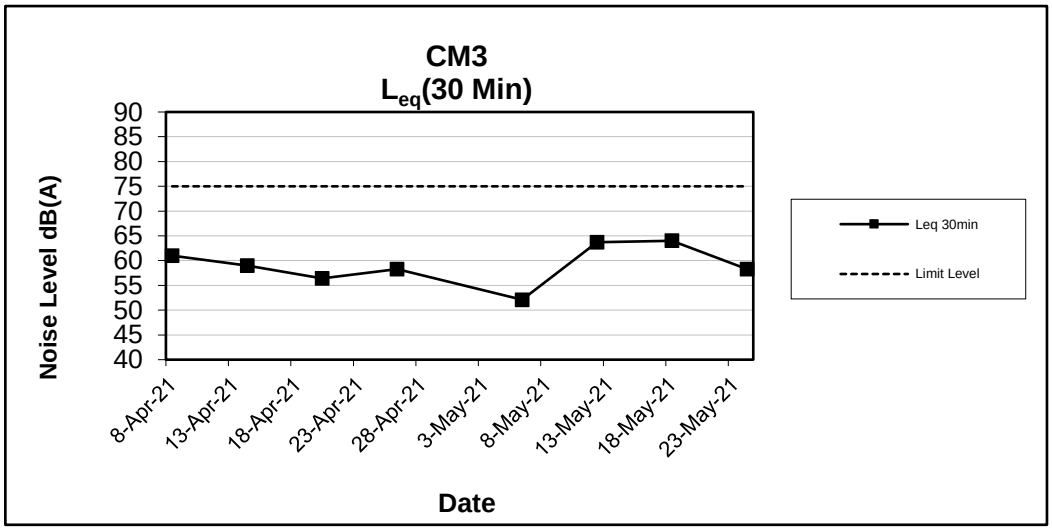
CM3 - Squatter house to the east of YLSTW

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-May-21	14:49	52	58	51	0.7	Fine	75
12-May-21	14:32	64	69	53	0.7	Fine	75
18-May-21	12:08	64	67	54	0.4	Fine	75
24-May-21	09:30	58	60	55	0.3	Cloudy	75
	Max	64					
	Min	52					

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.


CM1
Leq(30 Min)
Noise Level dB(A)
90
80
70
60
50
40
8-Apr-21
13-Apr-21
18-Apr-21
23-Apr-21
28-Apr-21
3-May-21
8-May-21
13-May-21
18-May-21
23-May-21
Date
Leq 30min
Limit Level


CM2
Leq(30 Min)
Noise Level dB(A)
90
80
70
60
50
40
8-Apr-21
13-Apr-21
18-Apr-21
23-Apr-21
28-Apr-21
3-May-21
8-May-21
13-May-21
18-May-21
23-May-21
Date
Leq 30min
Limit Level


CM3
Leq(30 Min)
Noise Level dB(A)
90
85
80
75
70
65
60
55
50
45
40
8-Apr-21
13-Apr-21
18-Apr-21
23-Apr-21
28-Apr-21
3-May-21
8-May-21
13-May-21
18-May-21
23-May-21
Date
Leq 30min
Limit Level

Water Quality Monitoring Results

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	1/5/2021	Mid-Flood	Fine	Calm	10:14	1.2	M	0.6	1	0.046	78	7.30	7.30	13.74	13.74	25.90	25.91	57.1	56.8	4.22	4.21	113.7	113.9	150	160
M1	1/5/2021	Mid-Flood	Fine	Calm	10:14	1.2	M	0.6	2			7.29		13.74		25.92		56.4		4.20		114.0		170	
M2	1/5/2021	Mid-Flood	Fine	Calm	09:58	1	M	0.5	1	0.039	95	7.29	7.29	13.07	13.07	26.16	26.16	58.8	58.3	4.26	4.23	92.1	93.1	120	130
M2	1/5/2021	Mid-Flood	Fine	Calm	09:58	1	M	0.5	2			7.29		13.07		26.16		57.7		4.20		94.0		140	
M3	1/5/2021	Mid-Flood	Fine	Calm	09:40	0.6	M	0.3	1	0.122	260	6.83	6.85	7.77	7.77	25.90	25.90	51.9	51.6	4.04	4.02	84.9	84.7	160	160
M3	1/5/2021	Mid-Flood	Fine	Calm	09:40	0.6	M	0.3	2			6.86		7.77		25.90		51.3		3.99		84.5		160	
M1	1/5/2021	Mid-Ebb	Fine	Calm	16:45	0.9	M	0.45	1	0.068	284	7.23	7.23	13.17	13.16	26.50	26.50	57.8	57.8	4.34	4.34	30.7	30.7	29	31
M1	1/5/2021	Mid-Ebb	Fine	Calm	16:45	0.9	M	0.45	2			7.23		13.15		26.50		57.8		4.34		30.6		32	
M2	1/5/2021	Mid-Ebb	Fine	Calm	17:09	1	M	0.5	1	0.076	283	7.31	7.31	13.55	13.57	26.36	26.42	61.8	61.7	4.58	4.57	28.9	29.0	32	32
M2	1/5/2021	Mid-Ebb	Fine	Calm	17:09	1	M	0.5	2			7.31		13.58		26.47		61.6		4.56		29.1		31	
M3	1/5/2021	Mid-Ebb	Fine	Calm	16:48	0.9	M	0.45	1	0.016	78	7.16	7.17	8.94	8.94	27.60	27.55	73.9	76.2	5.54	5.72	18.4	19.7	15	14
M3	1/5/2021	Mid-Ebb	Fine	Calm	16:48	0.9	M	0.45	2			7.17		8.93		27.50		78.4		5.89		20.9		13	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.
4. Limti 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. Limti 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
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	136.6	148.0	192	208
M3	3.28	3.14	136.6	148.0	192	208

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	4/5/2021	Mid-Flood	Fine	Calm	12:50	1	M	0.5	1	0.048	288	7.21	7.21	7.93	7.93	26.87	26.87	55.6	55.6	4.24	4.24	22.1	22.1	30	30
M1	4/5/2021	Mid-Flood	Fine	Calm	12:50	1	M	0.5	2			7.20		7.92		26.87		55.5		4.23		22.1		30	
M2	4/5/2021	Mid-Flood	Fine	Calm	12:37	1.1	M	0.55	1	0.19	24	7.12	7.12	7.29	7.29	26.97	26.98	40.6	41.0	3.12	3.15	21.4	21.4	49	52
M2	4/5/2021	Mid-Flood	Fine	Calm	12:37	1.1	M	0.55	2			7.12		7.29		26.98		41.4		3.18		21.3		54	
M3	4/5/2021	Mid-Flood	Fine	Calm	12:45	0.3	M	0.15	1	0.009	277	6.96	6.96	5.92	5.92	28.50	28.55	56.5	56.9	4.24	4.28	33.6	31.0	38	39
M3	4/5/2021	Mid-Flood	Fine	Calm	12:45	0.3	M	0.15	2			6.95		5.91		28.60		57.3		4.31		28.4		39	
M1	4/5/2021	Mid-Ebb	Fine	Calm	08:49	0.8	M	0.4	1	0.043	284	6.99	6.99	5.71	5.71	27.34	27.30	36.7	36.5	2.81	2.80	21.9	21.9	36	36
M1	4/5/2021	Mid-Ebb	Fine	Calm	08:49	0.8	M	0.4	2			6.99		5.71		27.26		36.3		2.79		21.8		36	
M2	4/5/2021	Mid-Ebb	Fine	Calm	09:12	1	M	0.5	1	0.067	140	7.05	7.05	5.56	5.56	27.47	27.48	35.8	36.0	2.77	2.78	24.0	24.0	22	22
M2	4/5/2021	Mid-Ebb	Fine	Calm	09:12	1	M	0.5	2			7.05		5.56		27.48		36.2		2.78		23.9		22	
M3	4/5/2021	Mid-Ebb	Fine	Calm	09:15	0.5	M	0.25	1	0.004	86	6.97	6.97	2.96	2.96	26.80	26.80	50.2	48.9	3.95	3.85	30.2	32.1	36	36
M3	4/5/2021	Mid-Ebb	Fine	Calm	09:15	0.5	M	0.25	2			6.96		2.96		26.80		47.6		3.74		34.0		35	

Remark

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4. Limti 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. Limti 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
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	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	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	6/5/2021	Mid-Flood	Cloudy	Calm	16:34	1.3	M	0.65	1	0.054	251	7.27	7.27	4.85	4.86	28.66	28.67	63.5	63.5	4.79	4.79	31.8	31.9	33	35
M1	6/5/2021	Mid-Flood	Cloudy	Calm	16:34	1.3	M	0.65	2			7.27		4.86		28.67		63.4		4.78		31.9		36	
M2	6/5/2021	Mid-Flood	Cloudy	Calm	16:23	1.3	M	0.65	1	0.09	276	7.13	7.13	5.22	5.22	27.92	27.93	44.8	44.6	3.40	3.39	29.5	29.5	38	39
M2	6/5/2021	Mid-Flood	Cloudy	Calm	16:23	1.3	M	0.65	2			7.13		5.21		27.93		44.3		3.38		29.5		39	
M3	6/5/2021	Mid-Flood	Cloudy	Calm	16:21	0.9	M	0.45	1	0.094	66	7.01	7.02	31.16	31.17	28.83	28.84	53.6	53.5	4.04	4.03	32.1	32.1	48	49
M3	6/5/2021	Mid-Flood	Cloudy	Calm	16:21	0.9	M	0.45	2			7.02		31.18		28.84		53.4		4.01		32.0		50	
M1	6/5/2021	Mid-Ebb	Cloudy	Calm	11:23	0.7	M	0.35	1	0.059	279	7.17	7.17	2.25	2.25	29.91	29.91	41.8	41.8	3.12	3.12	27.2	27.3	37	37
M1	6/5/2021	Mid-Ebb	Cloudy	Calm	11:23	0.7	M	0.35	2			7.17		2.25		29.90		41.7		3.11		27.3		36	
M2	6/5/2021	Mid-Ebb	Cloudy	Calm	11:37	0.8	M	0.4	1	0.076	139	7.16	7.16	1.94	1.94	30.12	30.12	40.4	40.2	3.01	3.01	25.6	25.6	32	33
M2	6/5/2021	Mid-Ebb	Cloudy	Calm	11:37	0.8	M	0.4	2			7.16		1.93		30.11		40.0		3.00		25.5		34	
M3	6/5/2021	Mid-Ebb	Cloudy	Calm	11:20	0.2	M	0.1	1	0.051	182	7.04	7.05	1.17	1.18	28.69	28.69	44.8	44.7	3.57	3.56	13.6	13.6	17	19
M3	6/5/2021	Mid-Ebb	Cloudy	Calm	11:20	0.2	M	0.1	2			7.05		1.18		28.68		44.6		3.54		13.5		20	

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. Limti 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. Limti 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
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	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	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	8/5/2021	Mid-Flood	Fine	Calm	06:30	1.3	M	0.65	1	0.102	171	7.28	7.28	4.58	4.58	28.71	28.71	76.8	76.8	5.50	5.50	32.1	31.3	34	33
M1	8/5/2021	Mid-Flood	Fine	Calm	06:30	1.3	M	0.65	2			7.28		4.58		28.71		76.8		5.50		30.4		32	
M2	8/5/2021	Mid-Flood	Fine	Calm	06:43	1	M	0.5	1	0.079	185	7.33	7.33	3.80	3.80	28.72	28.73	67.6	67.3	5.10	5.06	27.6	27.6	38	37
M2	8/5/2021	Mid-Flood	Fine	Calm	06:43	1	M	0.5	2			7.32		3.80		28.73		67.0		5.02		27.6		36	
M3	8/5/2021	Mid-Flood	Fine	Calm	06:50	0.7	M	0.35	1	0.005	260	7.15	7.15	4.06	4.06	28.20	28.25	61.5	61.2	4.68	4.66	11.5	12.3	22	23
M3	8/5/2021	Mid-Flood	Fine	Calm	06:50	0.7	M	0.35	2			7.15		4.06		28.30		60.9		4.63		13.0		23	
M1	8/5/2021	Mid-Ebb	Fine	Calm	12:36	1.1	M	0.55	1	0.068	117	7.48	7.48	3.49	3.50	29.33	29.34	91.0	91.1	6.85	6.84	24.9	24.9	30	31
M1	8/5/2021	Mid-Ebb	Fine	Calm	12:36	1.1	M	0.55	2			7.47		3.50		29.35		91.2		6.82		24.9		31	
M2	8/5/2021	Mid-Ebb	Fine	Calm	12:26	0.9	M	0.45	1	0.071	244	7.25	7.25	3.58	3.58	29.00	28.95	58.5	57.6	4.39	4.33	29.9	30.0	34	36
M2	8/5/2021	Mid-Ebb	Fine	Calm	12:26	0.9	M	0.45	2			7.25		3.58		28.89		56.6		4.26		30.0		38	
M3	8/5/2021	Mid-Ebb	Fine	Calm	12:08	0.4	M	0.2	1	0.012	86	7.32	7.33	2.81	2.81	29.40	29.45	88.6	90.9	6.66	6.83	13.4	13.4	17	17
M3	8/5/2021	Mid-Ebb	Fine	Calm	12:08	0.4	M	0.2	2			7.33		2.81		29.50		93.1		6.99		13.4		17	

Remark

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4. Limti 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. Limti 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
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	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	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	11/5/2021	Mid-Flood	Fine	Calm	07:13	1.3	M	0.65	1	0.525	165	7.84	7.84	7.79	7.79	30.11	30.11	104.6	104.6	7.54	7.52	29.7	29.7	46	48
M1	11/5/2021	Mid-Flood	Fine	Calm	07:13	1.3	M	0.65	2			7.84		7.79		30.11		104.5		7.50		29.7		50	
M2	11/5/2021	Mid-Flood	Fine	Calm	07:31	1	M	0.5	1	0.465	163	7.72	7.72	5.15	5.14	30.26	30.26	109.3	109.3	7.99	8.00	25.4	25.3	41	43
M2	11/5/2021	Mid-Flood	Fine	Calm	07:31	1	M	0.5	2			7.72		5.13		30.26		109.3		8.00		25.2		45	
M3	11/5/2021	Mid-Flood	Fine	Calm	07:45	0.8	M	0.4	1	0.114	267	7.01	7.03	4.91	4.91	29.40	29.35	56.8	57.2	4.23	4.26	73.8	71.4	59	57
M3	11/5/2021	Mid-Flood	Fine	Calm	07:45	0.8	M	0.4	2			7.05		4.91		29.30		57.6		4.28		69.0		55	
M1	11/5/2021	Mid-Ebb	Fine	Calm	14:06	1.1	M	0.55	1	0.082	261	7.62	7.62	5.77	5.79	30.50	30.50	107.1	107.1	7.73	7.71	32.3	32.5	43	42
M1	11/5/2021	Mid-Ebb	Fine	Calm	14:06	1.1	M	0.55	2			7.62		5.81		30.50		107.0		7.68		32.7		41	
M2	11/5/2021	Mid-Ebb	Fine	Calm	13:56	0.9	M	0.45	1	0.073	236	7.65	7.65	5.39	5.41	30.42	30.42	113.9	114.1	8.31	8.30	26.6	26.6	43	42
M2	11/5/2021	Mid-Ebb	Fine	Calm	13:56	0.9	M	0.45	2			7.64		5.43		30.42		114.3		8.29		26.5		40	
M3	11/5/2021	Mid-Ebb	Fine	Calm	13:45	0.4	M	0.2	1	0.031	80	6.84	6.86	4.10	4.09	29.90	29.95	78.8	78.3	5.83	5.78	37.9	37.4	42	41
M3	11/5/2021	Mid-Ebb	Fine	Calm	13:45	0.4	M	0.2	2			6.88		4.08		30.00		77.7		5.72		36.9		39	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	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	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	13/5/2021	Mid-Flood	Fine	Calm	07:49	1.4	M	0.7	1	0.096	160	7.39	7.39	9.93	9.93	29.73	29.64	66.7	66.7	4.79	4.79	25.8	25.4	42	44
M1	13/5/2021	Mid-Flood	Fine	Calm	07:49	1.4	M	0.7	2			7.39		9.93		29.55		66.6		4.79		25.0		45	
M2	13/5/2021	Mid-Flood	Fine	Calm	08:04	1.2	M	0.6	1	0.083	126	7.48	7.48	8.50	8.64	29.93	29.93	68.8	69.1	5.11	5.11	28.5	28.5	58	54
M2	13/5/2021	Mid-Flood	Fine	Calm	08:04	1.2	M	0.6	2			7.48		8.78		29.93		69.4		5.11		28.5		50	
M3	13/5/2021	Mid-Flood	Fine	Calm	07:58	0.4	M	0.2	1	0.095	261	7.05	7.03	5.27	5.28	29.70	29.65	49.4	54.1	3.65	3.70	58.7	61.3	50	48
M3	13/5/2021	Mid-Flood	Fine	Calm	07:58	0.4	M	0.2	2			7.00		5.28		29.60		58.8		3.75		63.9		46	
M1	13/5/2021	Mid-Ebb	Fine	Calm	14:52	1.1	M	0.55	1	0.077	276	7.36	7.36	7.45	7.44	30.10	30.14	74.5	74.4	5.10	5.10	33.1	33.1	39	42
M1	13/5/2021	Mid-Ebb	Fine	Calm	14:52	1.1	M	0.55	2			7.36		7.43		30.17		74.3		5.10		33.0		45	
M2	13/5/2021	Mid-Ebb	Fine	Calm	14:38	1	M	0.5	1	0.082	219	7.33	7.33	6.64	6.67	30.25	30.25	67.6	67.6	4.80	4.84	36.7	36.3	34	37
M2	13/5/2021	Mid-Ebb	Fine	Calm	14:38	1	M	0.5	2			7.33		6.69		30.25		67.5		4.87		35.9		39	
M3	13/5/2021	Mid-Ebb	Fine	Calm	13:45	0.6	M	0.3	1	0.031	80	7.05	7.06	4.04	4.05	30.60	30.55	69.9	70.5	5.20	5.19	32.1	32.9	28	26
M3	13/5/2021	Mid-Ebb	Fine	Calm	13:45	0.6	M	0.3	2			7.06		4.05		30.50		71.1		5.18		33.6		24	

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	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	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	15/5/2021	Mid-Flood	Fine	Calm	08:36	2.2	M	1.1	1	0.092	254	7.32	7.32	11.20	11.22	29.70	29.71	59.2	59.1	4.23	4.22	40.4	39.6	51	55
M1	15/5/2021	Mid-Flood	Fine	Calm	08:36	2.2	M	1.1	2			7.32		11.23		29.71		59.0		4.21		38.7		58	
M2	15/5/2021	Mid-Flood	Fine	Calm	08:51	1.8	M	0.9	1	0.195	200	7.38	7.38	10.35	10.35	29.80	29.81	63.5	63.5	4.55	4.55	33.8	33.8	51	48
M2	15/5/2021	Mid-Flood	Fine	Calm	08:51	1.8	M	0.9	2			7.38		10.35		29.81		63.4		4.54		33.7		45	
M3	15/5/2021	Mid-Flood	Fine	Calm	09:08	0.8	M	0.4	1	0.13	261	7.09	7.10	6.67	6.68	29.80	29.75	59.2	60.7	4.33	4.43	52.4	50.5	91	91
M3	15/5/2021	Mid-Flood	Fine	Calm	09:08	0.8	M	0.4	2			7.11		6.68		29.70		62.1		4.53		48.5		90	
M1	15/5/2021	Mid-Ebb	Fine	Calm	16:07	1.8	M	0.9	1	0.357	47	7.38	7.38	6.45	6.45	30.91	30.92	70.6	70.9	5.07	5.09	27.6	27.6	34	34
M1	15/5/2021	Mid-Ebb	Fine	Calm	16:07	1.8	M	0.9	2			7.38		6.45		30.92		71.1		5.11		27.6		34	
M2	15/5/2021	Mid-Ebb	Fine	Calm	15:51	1.2	M	0.6	1	0.043	341	7.36	7.36	6.10	6.11	30.97	30.98	66.5	66.1	4.78	4.75	33.7	33.8	44	44
M2	15/5/2021	Mid-Ebb	Fine	Calm	15:51	1.2	M	0.6	2			7.36		6.11		30.99		65.7		4.72		33.8		43	
M3	15/5/2021	Mid-Ebb	Fine	Calm	16:00	0.4	M	0.2	1	0.101	76	7.00	7.00	4.43	4.44	31.80	31.40	75.8	75.6	5.42	5.40	32.6	33.2	28	28
M3	15/5/2021	Mid-Ebb	Fine	Calm	16:00	0.4	M	0.2	2			7.00		4.44		31.00		75.3		5.38		33.8		27	

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	47.5	52.4	81	112
M3	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	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	18/5/2021	Mid-Flood	Fine	Calm	10:20	2	M	1	1	0.243	324	7.52	7.52	8.32	8.33	30.44	30.39	69.2	69.3	4.96	4.97	29.7	29.7	37	38
M1	18/5/2021	Mid-Flood	Fine	Calm	10:20	2	M	1	2			7.52		8.33		30.34		69.3		4.97		29.7		39	
M2	18/5/2021	Mid-Flood	Fine	Calm	10:36	1.7	M	0.85	1	0.184	166.5	5.18	5.18	7.91	7.92	30.35	30.37	72.3	72.2	5.18	5.18	32.2	32.3	34	33
M2	18/5/2021	Mid-Flood	Fine	Calm	10:36	1.7	M	0.85	2			5.17		7.92		30.39		72.1		5.17		32.3		32	
M3	18/5/2021	Mid-Flood	Fine	Calm	10:41	0.8	M	0.4	1	0.178	255	7.09	7.10	5.24	5.24	30.90	30.85	55.3	54.9	4.00	3.97	38.3	36.4	53	52
M3	18/5/2021	Mid-Flood	Fine	Calm	10:41	0.8	M	0.4	2			7.10		5.24		30.80		54.4		3.94		34.4		51	
M1	18/5/2021	Mid-Ebb	Fine	Calm	18:12	1.9	M	0.95	1	0.21	322	7.69	7.70	7.53	7.54	31.20	31.21	93.7	93.7	6.66	6.66	27.8	27.8	37	37
M1	18/5/2021	Mid-Ebb	Fine	Calm	18:12	1.9	M	0.95	2			7.70		7.54		31.21		93.6		6.65		27.8		36	
M2	18/5/2021	Mid-Ebb	Fine	Calm	17:54	1.6	M	0.8	1	0.065	70	7.71	7.71	7.04	7.05	31.23	31.23	91.8	91.8	6.54	6.54	32.6	32.6	41	42
M2	18/5/2021	Mid-Ebb	Fine	Calm	17:54	1.6	M	0.8	2			7.71		7.05		31.22		91.7		6.53		32.6		43	
M3	18/5/2021	Mid-Ebb	Fine	Calm	17:48	0.6	M	0.3	1	0.152	77	7.45	7.45	2.97	2.97	31.30	31.30	76.2	76.5	5.54	5.56	13.2	13.0	16	17
M3	18/5/2021	Mid-Ebb	Fine	Calm	17:48	0.6	M	0.3	2			7.44		2.97		31.30		76.7		5.57		12.9		18	

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	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	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	20/5/2021	Mid-Flood	Fine	Calm	13:12	1	M	0.5	1	0.119	195	7.97	7.97	4.96	4.96	30.79	30.76	70.0	70.0	5.03	5.02	53.0	52.0	54	54
M1	20/5/2021	Mid-Flood	Fine	Calm	13:12	1	M	0.5	2			7.97		4.96		30.73		70.0		5.00		50.9		53	
M2	20/5/2021	Mid-Flood	Fine	Calm	12:58	0.9	M	0.45	1	0.036	170	7.37	7.37	5.77	5.77	30.62	30.63	64.4	64.2	4.54	4.47	41.8	41.9	63	60
M2	20/5/2021	Mid-Flood	Fine	Calm	12:58	0.9	M	0.45	2			7.37		5.77		30.63		64.0		4.40		41.9		57	
M3	20/5/2021	Mid-Flood	Fine	Calm	13:05	0.8	M	0.4	1	0.083	74	7.29	7.30	5.63	5.63	31.57	31.58	80.5	80.5	5.75	5.75	32.1	32.1	50	51
M3	20/5/2021	Mid-Flood	Fine	Calm	13:05	0.8	M	0.4	2			7.30		5.63		31.58		80.4		5.74		32.0		51	
M1	20/5/2021	Mid-Ebb	Fine	Calm	07:52	0.9	M	0.45	1	0.069	266	7.24	7.24	4.36	4.36	30.49	30.49	48.5	48.7	3.60	3.60	32.6	32.6	54	53
M1	20/5/2021	Mid-Ebb	Fine	Calm	07:52	0.9	M	0.45	2			7.24		4.36		30.49		48.9		3.60		32.5		52	
M2	20/5/2021	Mid-Ebb	Fine	Calm	08:08	0.8	M	0.4	1	0.024	248	7.15	7.15	3.90	3.89	30.26	30.27	36.6	36.3	2.58	2.55	38.0	38.0	34	35
M2	20/5/2021	Mid-Ebb	Fine	Calm	08:08	0.8	M	0.4	2			7.15		3.88		30.27		36.0		2.51		38.0		36	
M3	20/5/2021	Mid-Ebb	Fine	Calm	08:47	0.4	M	0.2	1	0.133	252	6.79	6.80	3.96	3.97	29.45	29.45	48.8	49.1	3.64	3.66	25.8	25.8	33	35
M3	20/5/2021	Mid-Ebb	Fine	Calm	08:47	0.4	M	0.2	2			6.80		3.97		29.45		49.3		3.68		25.8		36	

Remark

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4. Limti 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. Limti 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
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	62.3	67.5	81	112
M3	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	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	22/5/2021	Mid-Flood	Fine	Calm	16:38	1	M	0.5	1	0.029	145	7.45	7.45	3.15	3.15	31.99	32.01	67.5	67.5	5.00	5.00	47.6	46.6	46	48
M1	22/5/2021	Mid-Flood	Fine	Calm	16:38	1	M	0.5	2			7.45		3.15		32.02		67.4		5.00		45.6		49	
M2	22/5/2021	Mid-Flood	Fine	Calm	16:20	0.9	M	0.45	1	0.036	165	7.46	7.46	3.03	3.03	32.18	32.20	84.2	84.2	5.63	5.63	44.0	44.6	73	74
M2	22/5/2021	Mid-Flood	Fine	Calm	16:20	0.9	M	0.45	2			7.46		3.03		32.22		84.1		5.63		45.1		75	
M3	22/5/2021	Mid-Flood	Fine	Calm	16:18	0.5	M	0.25	1	0.049	82	7.44	7.44	3.22	3.22	33.04	33.04	96.1	96.1	6.79	6.79	54.3	53.8	67	66
M3	22/5/2021	Mid-Flood	Fine	Calm	16:18	0.5	M	0.25	2			7.43		3.22		33.04		96.0		6.78		53.3		64	
M1	22/5/2021	Mid-Ebb	Fine	Calm	10:47	0.9	M	0.45	1	0.029	287	7.52	7.52	3.21	3.21	32.07	32.07	88.0	88.7	6.35	6.38	45.5	44.7	63	**62**
M1	22/5/2021	Mid-Ebb	Fine	Calm	10:47	0.9	M	0.45	2			7.52		3.20		32.07		89.4		6.41		44.0		61	
M2	22/5/2021	Mid-Ebb	Fine	Calm	11:02	0.8	M	0.4	1	0.082	269	7.48	7.48	3.17	3.17	32.11	32.23	76.6	76.8	5.52	5.53	46.0	45.8	54	57
M2	22/5/2021	Mid-Ebb	Fine	Calm	11:02	0.8	M	0.4	2			7.48		3.17		32.34		76.9		5.54		45.5		59	
M3	22/5/2021	Mid-Ebb	Fine	Calm	10:43	0.2	M	0.1	1	0.029	258	7.25	7.26	2.44	2.44	30.76	30.77	78.1	78.0	5.76	5.76	36.8	36.7	33	32
M3	22/5/2021	Mid-Ebb	Fine	Calm	10:43	0.2	M	0.1	2			7.26		2.44		30.77		77.9		5.75		36.5		30	

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. Limti 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
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	55.9	60.6	81	112
M3	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	2.25	1.91	49.4	53.6	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	25/5/2021	Mid-Flood	Rainy	Calm	06:30	1.1	M	0.55	1	0.119	195	7.20	7.21	2.82	2.83	30.08	30.09	41.2	41.1	3.04	3.04	42.4	42.4	40	44
M1	25/5/2021	Mid-Flood	Rainy	Calm	06:30	1.1	M	0.55	2			7.21		2.83		30.09		41.0		3.03		42.3		47	
M2	25/5/2021	Mid-Flood	Rainy	Calm	06:50	0.9	M	0.45	1	0.036	170	7.16	7.16	2.99	2.99	29.72	29.76	29.0	28.9	2.11	2.10	30.0	29.9	39	39
M2	25/5/2021	Mid-Flood	Rainy	Calm	06:50	0.9	M	0.45	2			7.16		2.99		29.79		28.8		2.09		29.8		38	
M3	25/5/2021	Mid-Flood	Rainy	Calm	07:00	0.8	M	0.4	1	0.083	74	7.39	7.39	0.26	0.25	27.00	27.10	85.5	85.8	6.80	6.83	92.1	**89.8**	57	59
M3	25/5/2021	Mid-Flood	Rainy	Calm	07:00	0.8	M	0.4	2			7.38		0.24		27.20		86.1		6.85		87.4		61	
M1	25/5/2021	Mid-Ebb	Rainy	Calm	12:57	1	M	0.5	1	0.069	266	7.13	7.13	2.84	2.84	30.21	30.23	25.6	25.5	1.87	**1.87**	115.7	**117.6**	32	33
M1	25/5/2021	Mid-Ebb	Rainy	Calm	12:57	1	M	0.5	2			7.13		2.84		30.25		25.4		1.86		119.4		34	
M2	25/5/2021	Mid-Ebb	Rainy	Calm	12:45	0.8	M	0.4	1	0.024	248	7.12	7.12	2.75	2.75	30.36	30.34	23.7	23.8	1.80	1.81	72.9	72.5	85	86
M2	25/5/2021	Mid-Ebb	Rainy	Calm	12:45	0.8	M	0.4	2			7.12		2.74		30.32		23.9		1.82		72.0		86	
M3	25/5/2021	Mid-Ebb	Rainy	Calm	12:48	0.4	M	0.2	1	0.133	252	7.16	7.16	0.28	0.28	27.50	27.45	71.0	71.3	5.60	5.62	48.0	50.4	26	28
M3	25/5/2021	Mid-Ebb	Rainy	Calm	12:48	0.4	M	0.2	2			7.16		0.28		27.40		71.6		5.64		52.7		29	

Remark

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6. Limti 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
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	50.8	55.1	81	112
M3	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	2.25	1.91	73.7	79.8	67.8	73.45
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	27/5/2021	Mid-Flood	Fine	Calm	07:45	1.6	M	0.8	1	0.174	322	7.38	7.38	5.55	5.55	31.35	31.37	55.9	56.2	3.99	4.02	29.4	29.4	38	39
M1	27/5/2021	Mid-Flood	Fine	Calm	07:45	1.6	M	0.8	2			7.38		5.54		31.39		56.5		4.05		29.4		40	
M2	27/5/2021	Mid-Flood	Fine	Calm	08:03	1.5	M	0.75	1	0.169	171	7.46	7.46	4.43	4.44	31.35	31.37	61.4	61.6	4.43	4.44	28.7	28.8	48	48
M2	27/5/2021	Mid-Flood	Fine	Calm	08:03	1.5	M	0.75	2			7.45		4.44		31.39		61.8		4.45		28.8		48	
M3	27/5/2021	Mid-Flood	Fine	Calm	08:12	1	M	0.5	1	0.082	268	7.08	7.08	2.23	2.23	30.10	30.10	46.8	46.3	3.49	3.46	131.8	**138.2**	110	**115**
M3	27/5/2021	Mid-Flood	Fine	Calm	08:12	1	M	0.5	2			7.07		2.23		30.10		45.8		3.42		144.5		120	
M1	27/5/2021	Mid-Ebb	Fine	Calm	14:50	1.5	M	0.75	1	0.197	330	7.26	7.26	2.86	2.87	31.37	31.38	43.7	43.8	3.18	3.18	92.1	**92.2**	120	**125**
M1	27/5/2021	Mid-Ebb	Fine	Calm	14:50	1.5	M	0.75	2			7.25		2.87		31.39		43.9		3.18		92.2		130	
M2	27/5/2021	Mid-Ebb	Fine	Calm	14:24	1.3	M	0.65	1	0.089	80	7.46	7.47	2.75	2.75	32.13	32.16	74.7	74.5	5.36	5.35	40.8	40.8	51	51
M2	27/5/2021	Mid-Ebb	Fine	Calm	14:24	1.3	M	0.65	2			7.47		2.75		32.19		74.3		5.34		40.7		50	
M3	27/5/2021	Mid-Ebb	Fine	Calm	14:30	0.5	M	0.25	1	0.152	75	7.52	7.52	2.00	2.01	32.50	32.50	89.8	90.2	6.44	6.47	38.5	37.6	42	45
M3	27/5/2021	Mid-Ebb	Fine	Calm	14:30	0.5	M	0.25	2			7.52		2.01		32.50		90.5		6.49		36.6		47	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	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	2.25	1.91	48.4	50.9	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	29/5/2021	Mid-Flood	Fine	Calm	08:44	1.3	M	0.65	1	0.11	231	7.42	7.43	7.96	7.97	30.62	30.64	59.4	59.5	4.26	4.28	82.4	82.4	64	64
M1	29/5/2021	Mid-Flood	Fine	Calm	08:44	1.3	M	0.65	2			7.44		7.98		30.66		59.6		4.30		82.4		64	
M2	29/5/2021	Mid-Flood	Fine	Calm	09:10	1.1	M	0.55	1	0.085	255	7.54	7.52	6.89	6.89	30.68	30.80	69.2	68.6	4.96	4.91	39.9	39.6	48	49
M2	29/5/2021	Mid-Flood	Fine	Calm	09:10	1.1	M	0.55	2			7.50		6.89		30.91		68.0		4.85		39.2		50	
M3	29/5/2021	Mid-Flood	Fine	Calm	08:36	0.3	M	0.15	1	0.199	261	6.90	6.91	2.85	2.86	30.70	30.70	47.2	44.8	3.47	3.30	95.6	96.6	100	110
M3	29/5/2021	Mid-Flood	Fine	Calm	08:36	0.3	M	0.15	2			6.92		2.86		30.70		42.4		3.12		97.7		120	
M1	29/5/2021	Mid-Ebb	Fine	Calm	16:17	1.2	M	0.6	1	0.065	128	7.61	7.62	6.47	6.48	31.40	31.42	79.1	79.4	5.64	5.65	24.5	24.6	29	30
M1	29/5/2021	Mid-Ebb	Fine	Calm	16:17	1.2	M	0.6	2			7.62		6.49		31.43		79.6		5.66		24.6		31	
M2	29/5/2021	Mid-Ebb	Fine	Calm	15:58	0.9	M	0.45	1	0.06	136	7.56	7.56	7.56	7.55	31.51	31.51	76.5	76.5	5.43	5.42	28.1	28.1	26	28
M2	29/5/2021	Mid-Ebb	Fine	Calm	15:58	0.9	M	0.45	2			7.56		7.54		31.51		76.4		5.41		28.0		29	
M3	29/5/2021	Mid-Ebb	Fine	Calm	16:02	0.8	M	0.4	1	0.151	80	7.47	7.48	2.94	2.95	32.30	32.30	101.6	102.0	7.26	7.29	22.7	22.0	22	23
M3	29/5/2021	Mid-Ebb	Fine	Calm	16:02	0.8	M	0.4	2			7.48		2.95		32.30		102.4		7.31		21.2		23	

Remark

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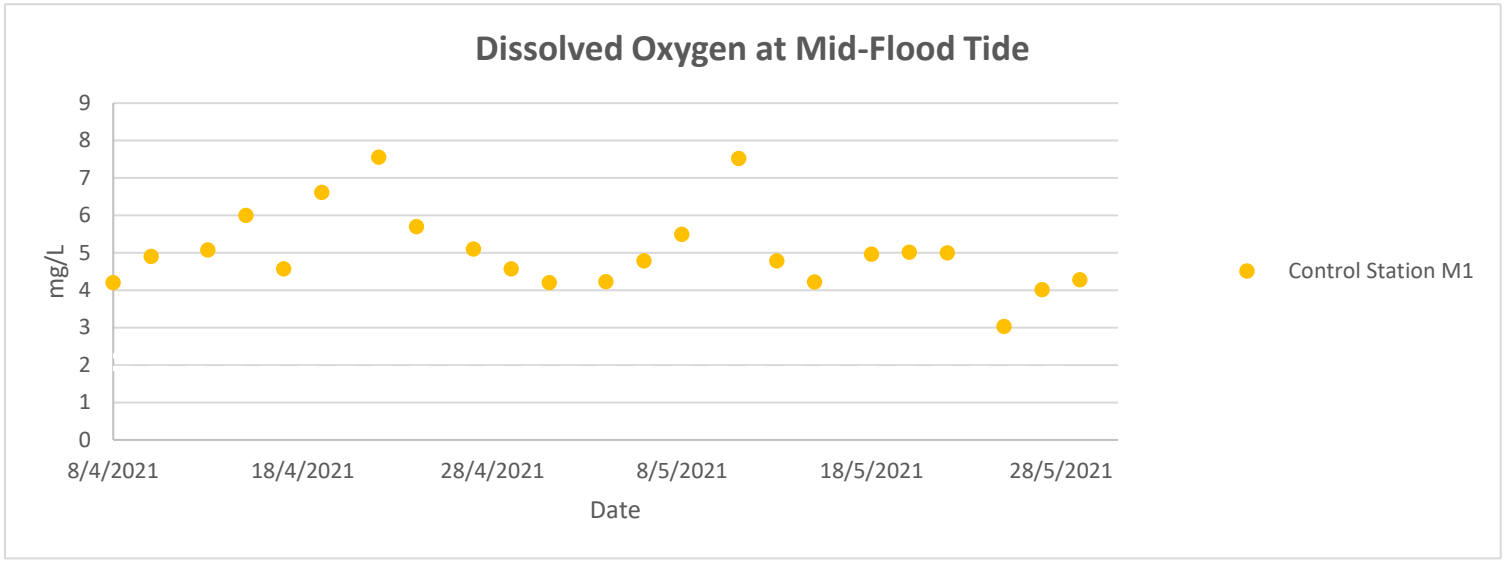
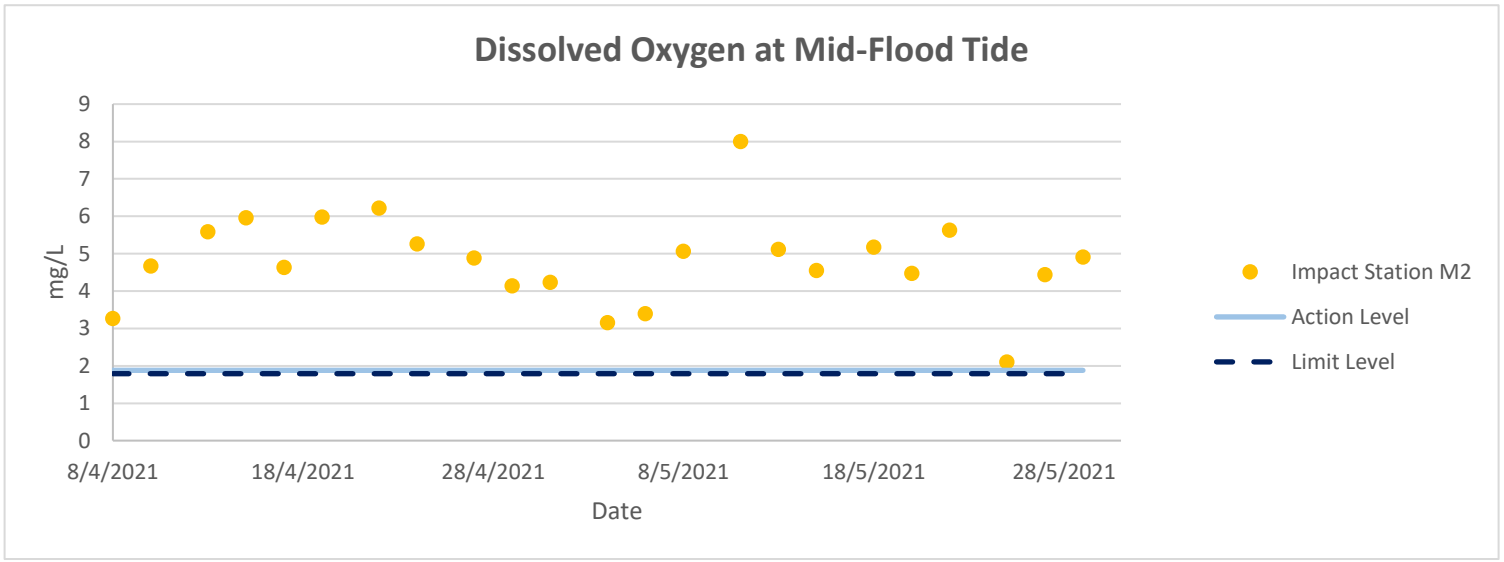
For Flood Tide

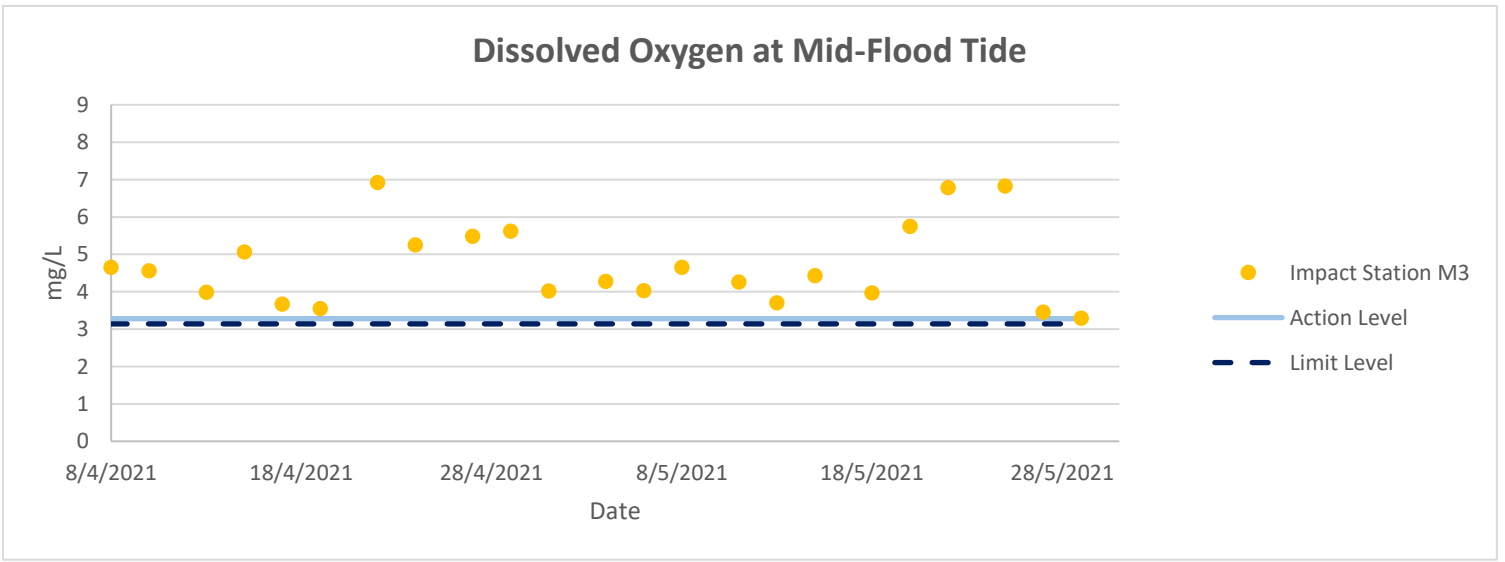
Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	98.9	107.1	81	112
M3	3.28	3.14	98.9	107.1	104	167

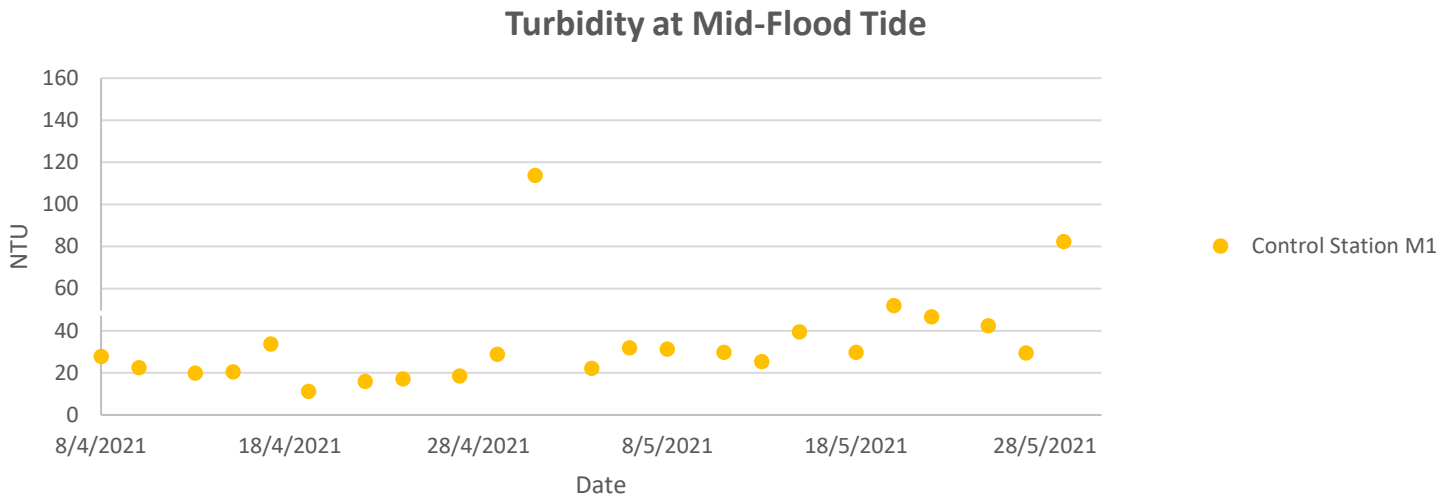
For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1	2.25	1.91	48.4	50.4	59	68
M2	1.88	1.79	43.0	52.4	81	112
M3	3.28	3.14	74.3	78.0	104	167


Dissolved Oxygen at Mid-Flood Tide
mg/L
9
8
7
6
5
4
3
2
1
0
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M1


Dissolved Oxygen at Mid-Flood Tide
mg/L
9
8
7
6
5
4
3
2
1
0
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M2
Action Level
Limit Level


Dissolved Oxygen at Mid-Flood Tide
mg/L
9
8
7
6
5
4
3
2
1
0
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M3
Action Level
Limit Level


Turbidity at Mid-Flood Tide
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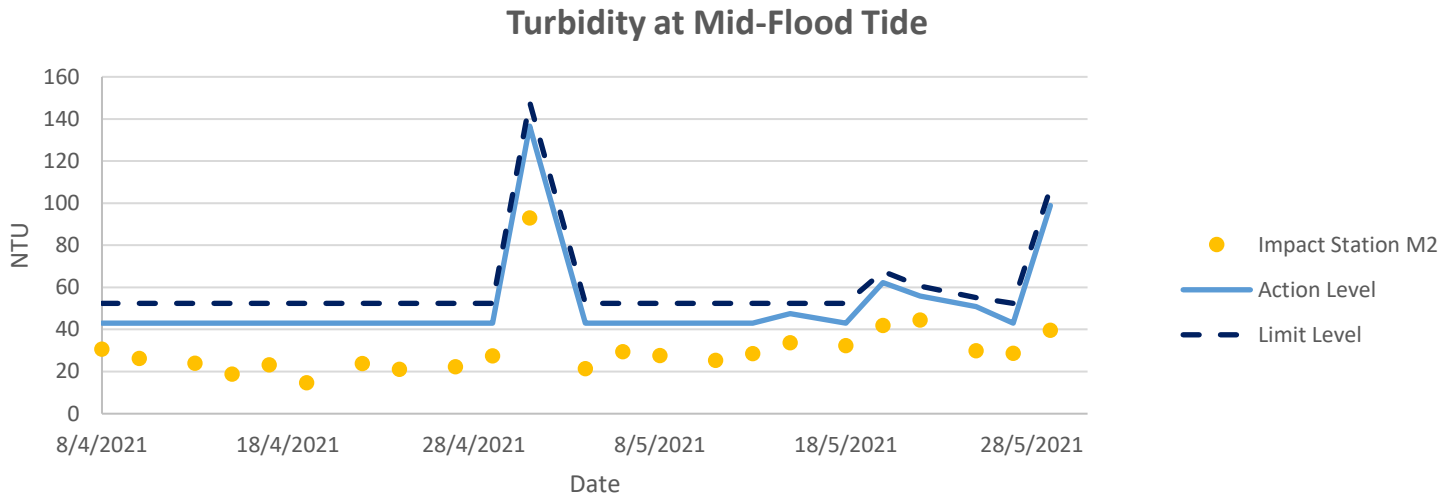
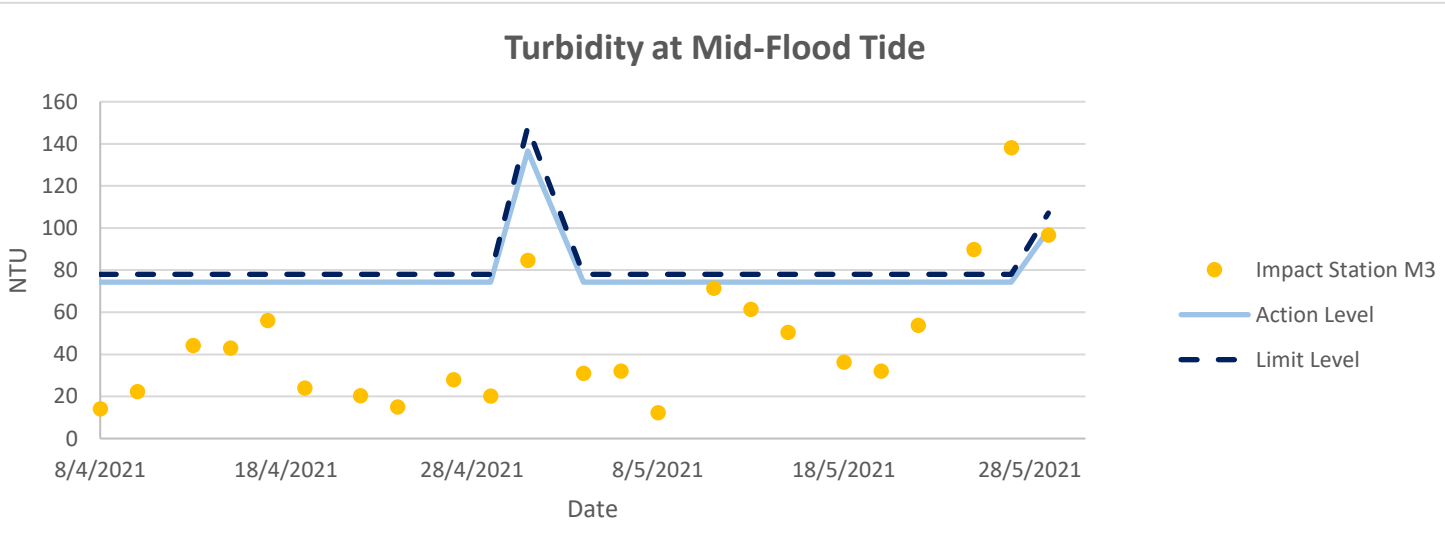
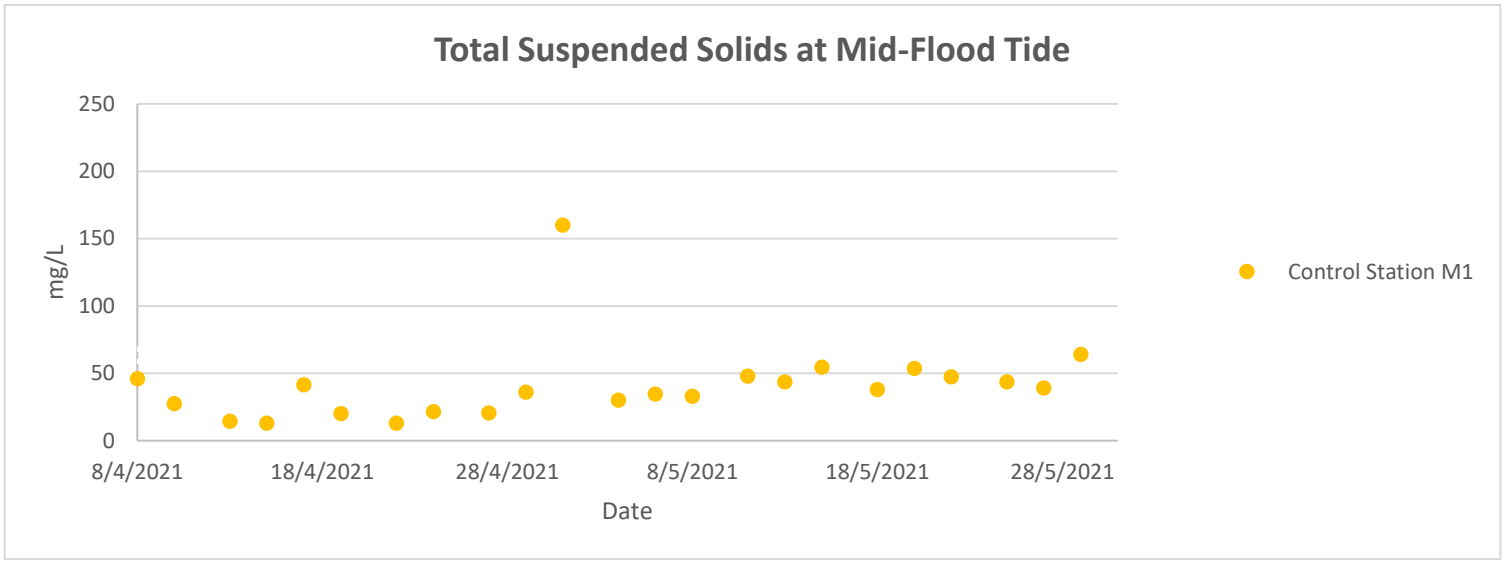
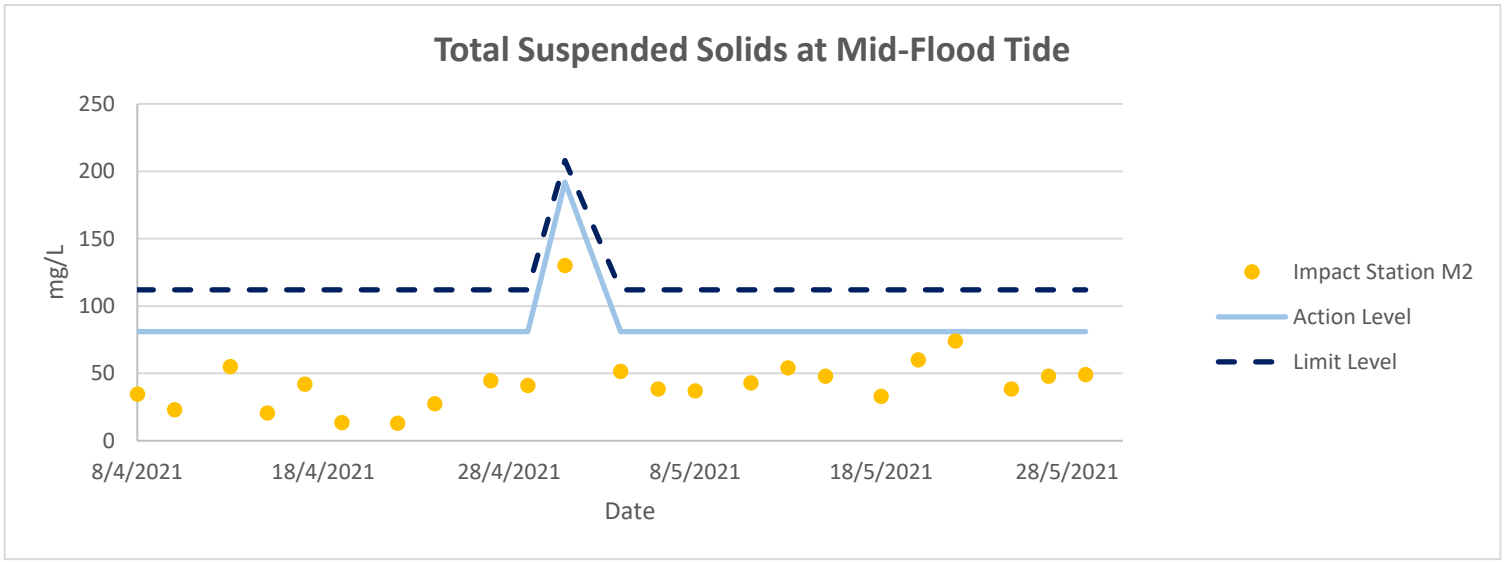
140
120
100
80
60
40
20
0
NTU
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M1


Turbidity at Mid-Flood Tide
160
140
120
100
80
60
40
20
0
NTU
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M2
Action Level
Limit Level


Turbidity at Mid-Flood Tide
160
140
120
100
80
60
40
20
0
NTU
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M3
Action Level
Limit Level


Total Suspended Solids at Mid-Flood Tide
250
200
150
100
50
0
mg/L
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M1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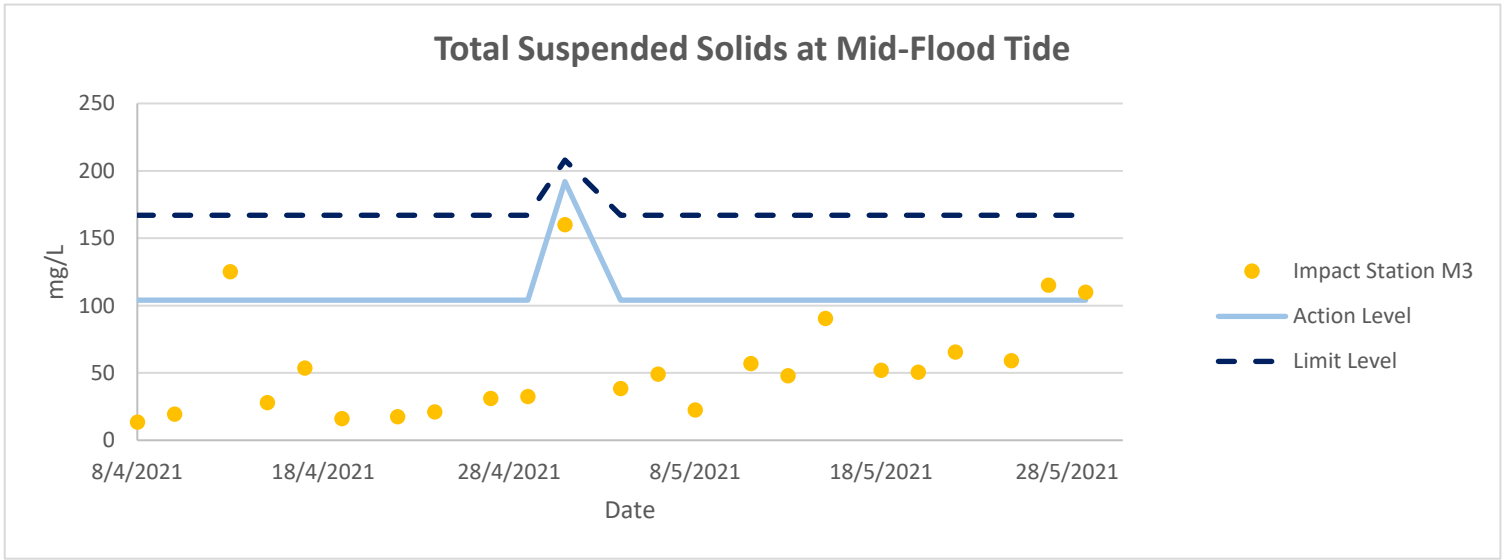
200
150
100
50
0
mg/L
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M2
Action Level
Limit Level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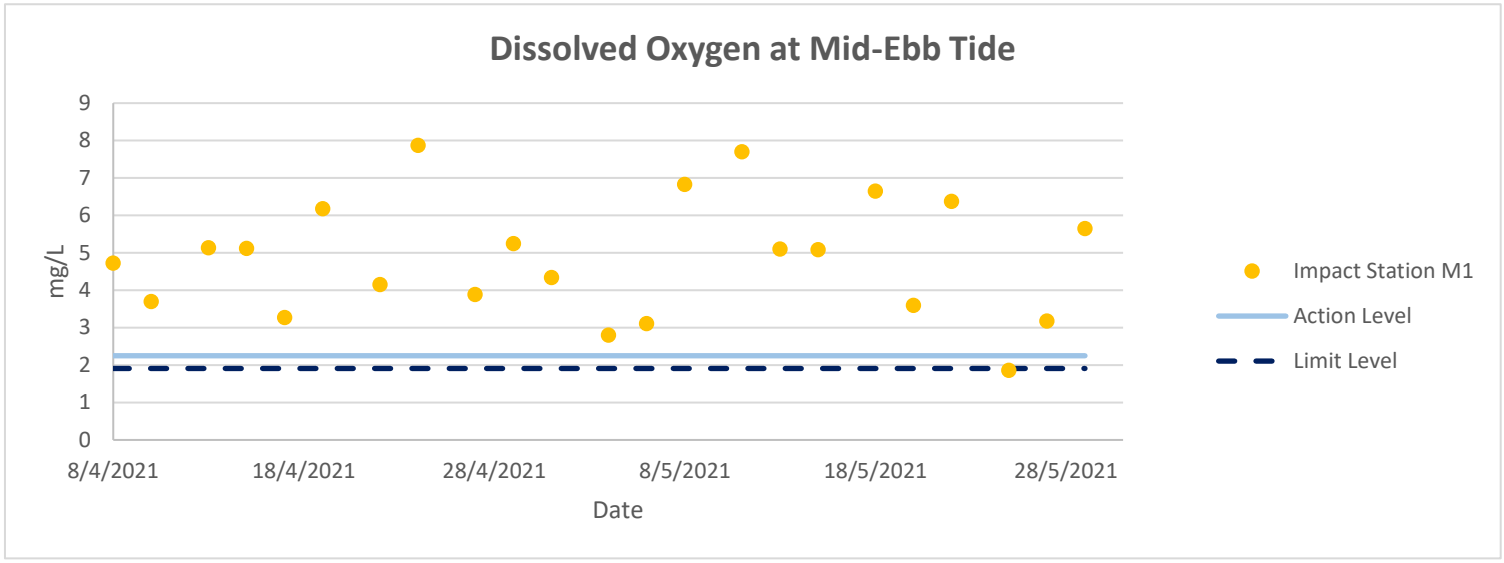
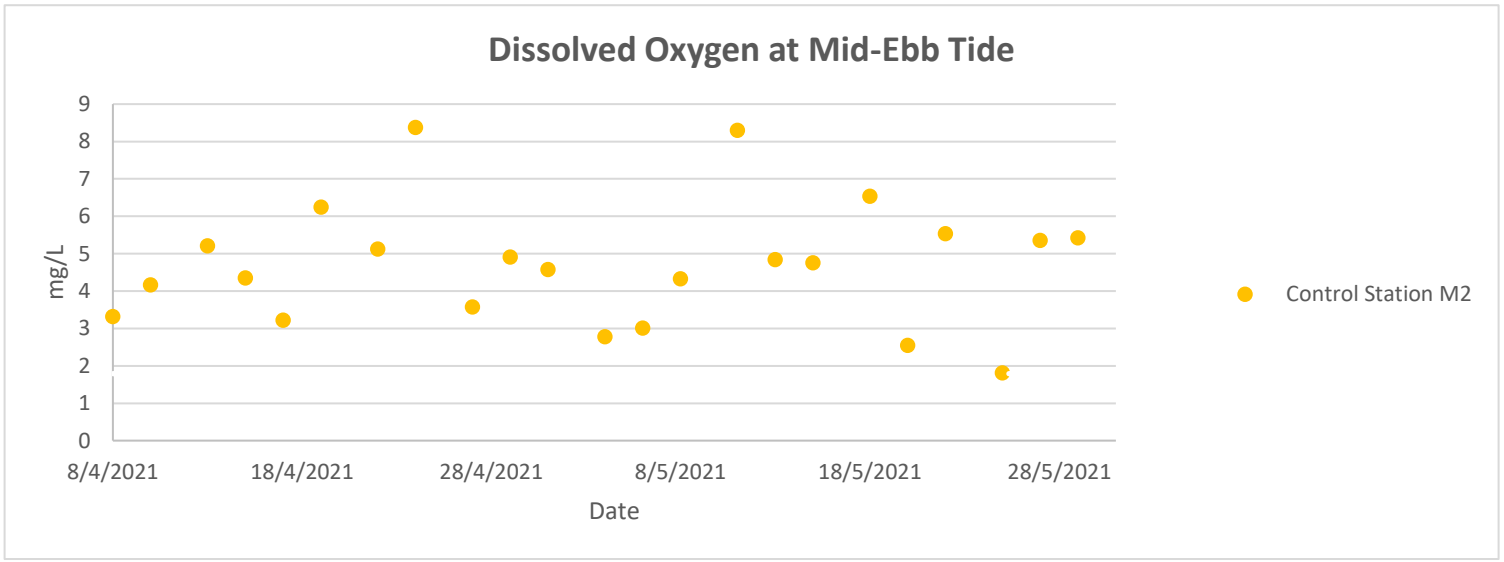
250
200
150
100
50
0
mg/L
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M3
Action Level
Limit Level


Dissolved Oxygen at Mid-Ebb Tide
mg/L
9
8
7
6
5
4
3
2
1
0
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M1
Action Level
Limit Level


Dissolved Oxygen at Mid-Ebb Tide
mg/L
9
8
7
6
5
4
3
2
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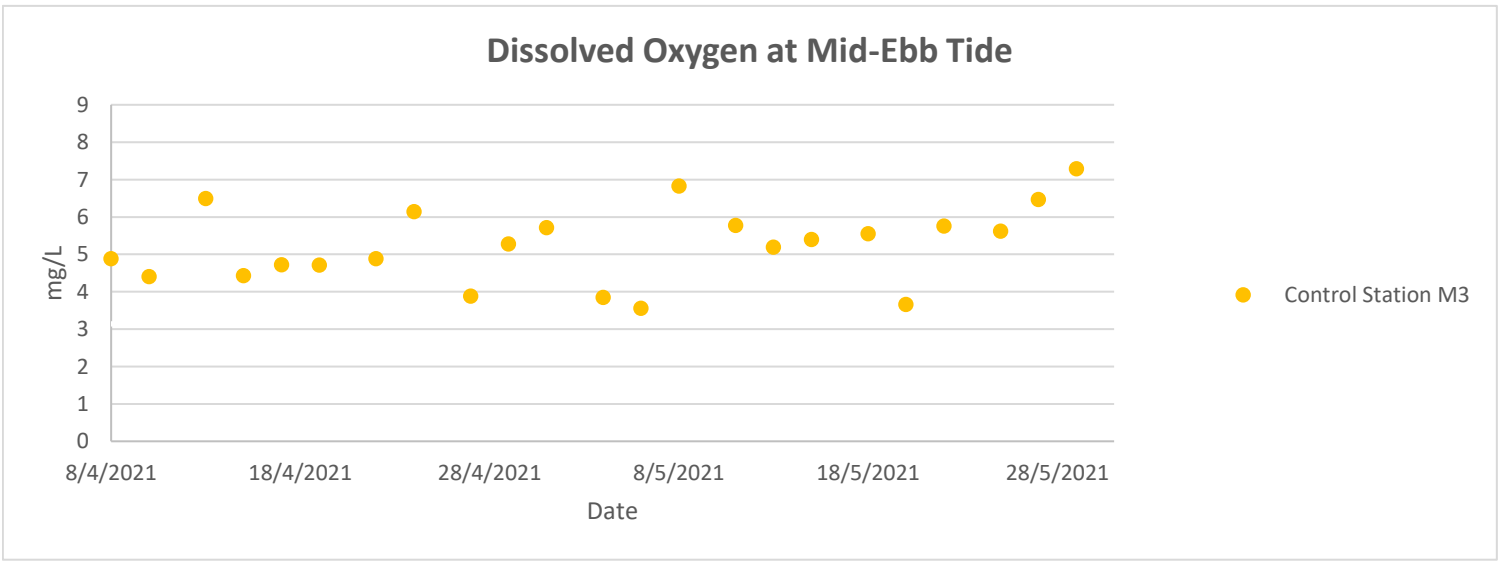
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M2


Dissolved Oxygen at Mid-Ebb Tide
mg/L
9
8
7
6
5
4
3
2
1
0
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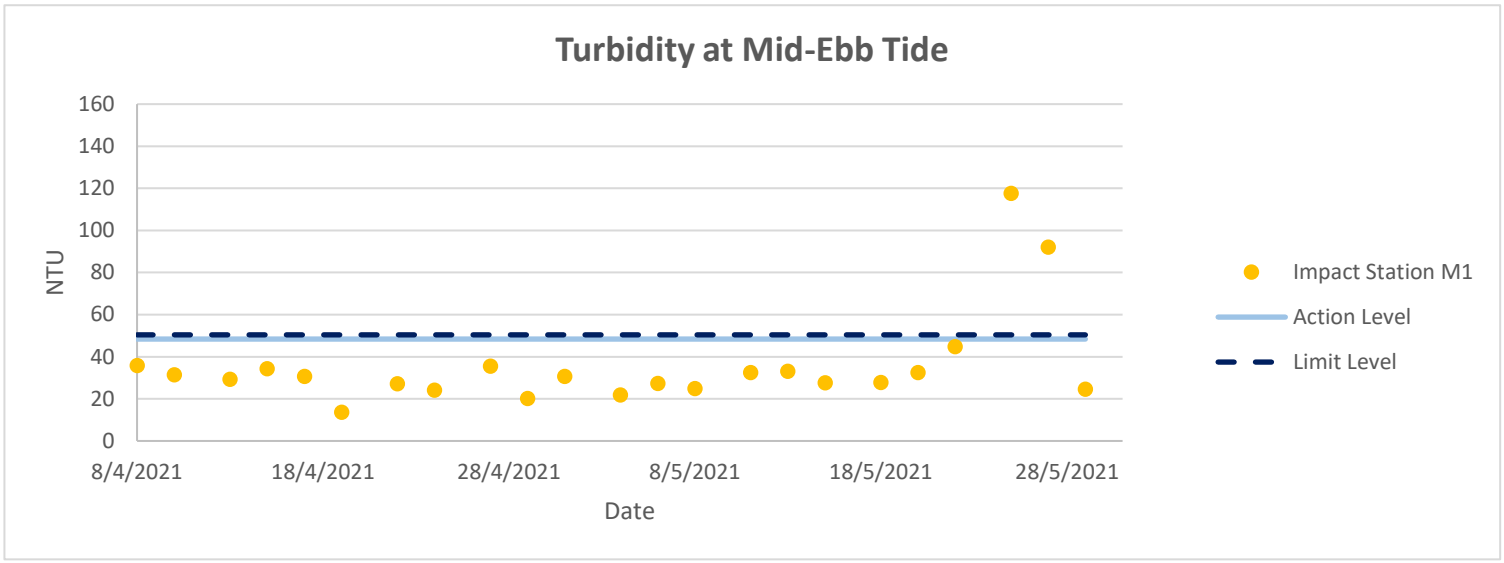
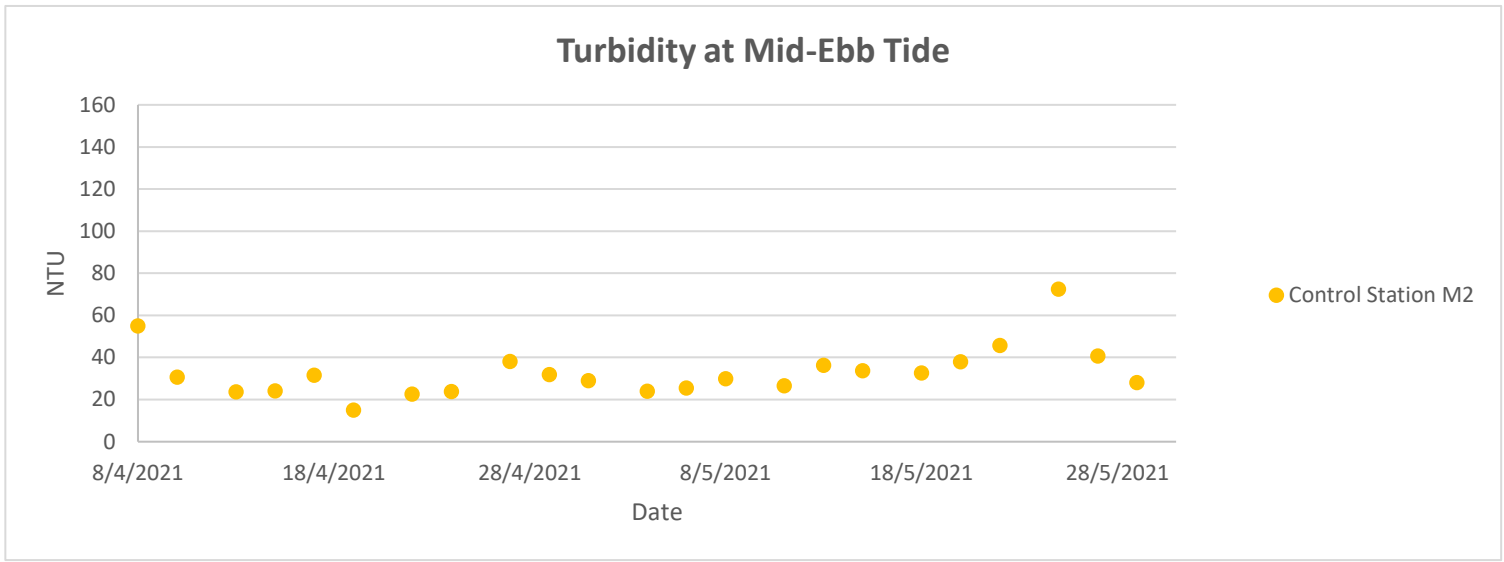
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M3


Turbidity at Mid-Ebb Tide
NTU
160
140
120
100
80
60
40
20
0
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M1
Action Level
Limit Level


Turbidity at Mid-Ebb Tide
NTU
160
140
120
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80
60
40
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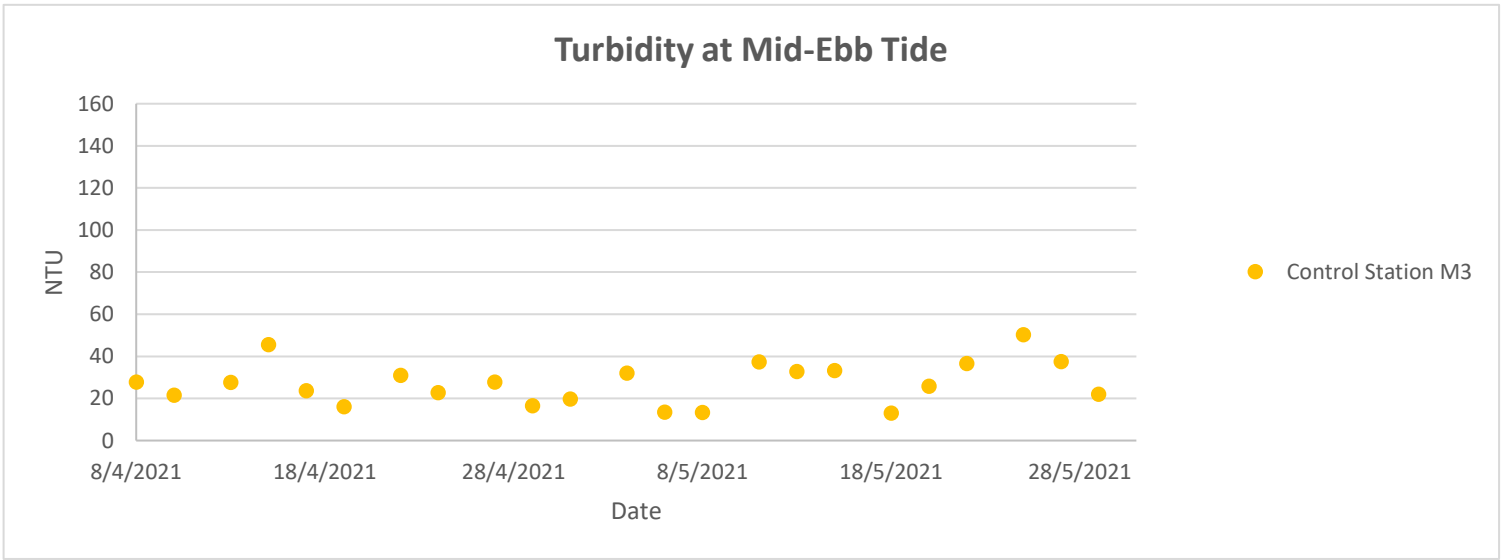
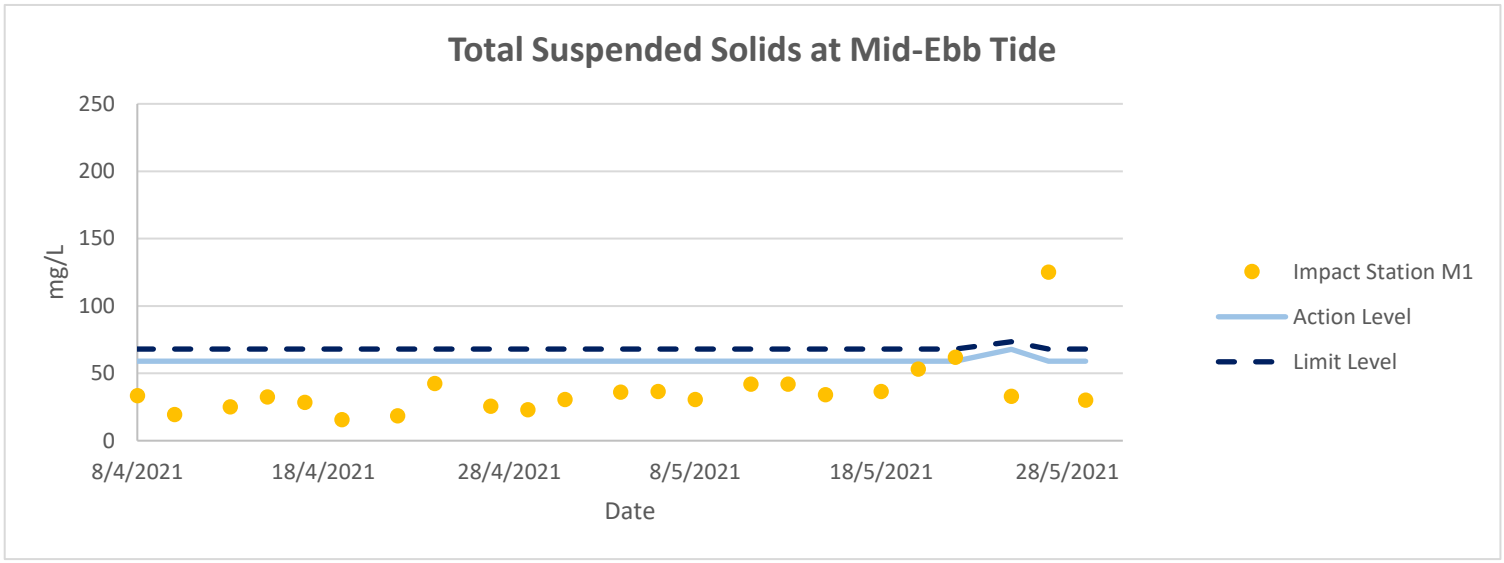
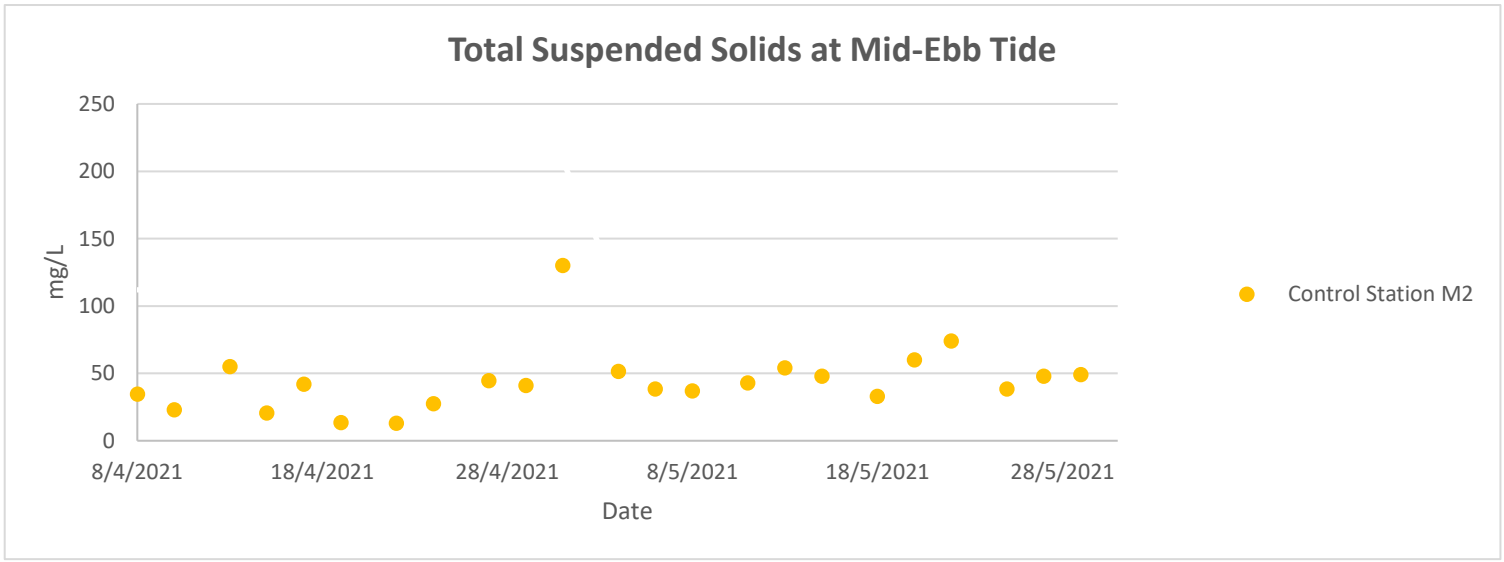
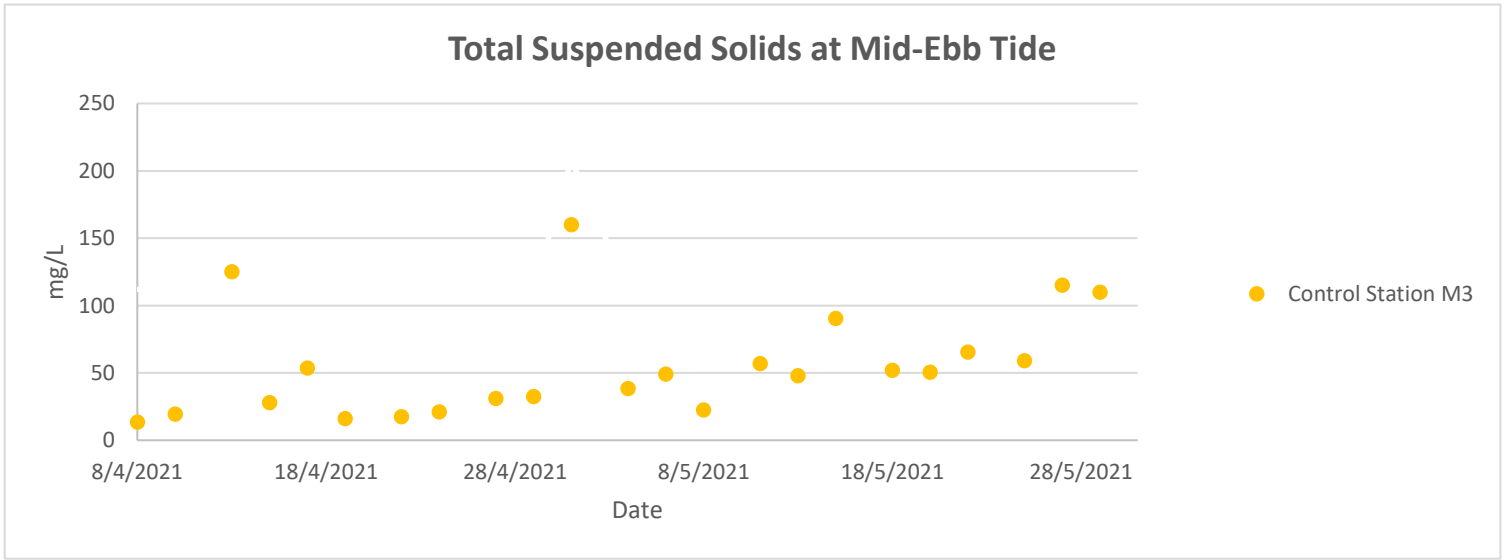
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M2


Turbidity at Mid-Ebb Tide
NTU
160
140
120
100
80
60
40
20
0
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M3


Total Suspended Solids at Mid-Ebb Tide
250
200
150
100
50
0
mg/L
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Impact Station M1
Action Level
Limit Level


Total Suspended Solids at Mid-Ebb Tide
250
200
150
100
50
0
mg/L
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M2


Total Suspended Solids at Mid-Ebb Tide
250
200
150
100
50
0
mg/L
8/4/2021
18/4/2021
28/4/2021
8/5/2021
18/5/2021
28/5/2021
Date
Control Station M3

Ecology Monitoring Results

Ecological Monitoring of Birds 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 Results (17 May 2021)

Daytime/Night time	Season	Area	Transect/Point Count	Point Count (Location)/Transect Impact	Common Name	Scientific Name	Abundance	Habitat	Distribution in Hong Kong[2]	Principal Status[3]	Level of Concern[4]	Protection Status in China[5]	China Red Data Book [6]	Red List of China's Vertebrates [10]	IUCN Red List [7] (v.2020-3)	Specis of Conservation Importance	Wetland Dependent
Daytime	Wet	FLW	Point Count	FLW6	Azure-winged Magpie	*Cyanopica cyanus*	7	Pond-FLW	Introduced	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Transect	FLW-Transect	Azure-winged Magpie	*Cyanopica cyanus*	5	Plantation-FLW	Introduced	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Transect	FLW-Transect	Barn Swallow	*Hirundo rustica*	3	Pond-FLW	Abundant	PM,SV	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Barn Swallow	*Hirundo rustica*	5	Pond-NSW	Abundant	PM,SV	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	SP/NSW1	Barn Swallow	*Hirundo rustica*	2	Pond-NSW	Abundant	PM,SV	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	SP/NSW2	Barn Swallow	*Hirundo rustica*	4	WC-NSW	Abundant	PM,SV	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW4	Black Drongo	*Dicrurus macrocercus*	1	Pond-FLW	Common	SV	-	-		LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW6	Black Drongo	*Dicrurus macrocercus*	1	Pond-FLW	Common	SV	-	-		LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW3	Black Kite	*Milvus migrans*	1	Pond-FLW	**Common**	**R,WV**	**(RC)**	**Class II**	**-**	LC	LC	Y	Y
Daytime	Wet	FLW	Transect	FLW-Transect	Black-collared Starling	*Gracupica nigricollis*	2	Plantation-FLW	Common	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	SP/NSW3	Black-collared Starling	*Gracupica nigricollis*	1	Plantation-NSW	Common	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Transect	FLW-Transect	Chinese Bulbul	*Pycnonotus sinensis*	2	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW6	Chinese Pond Heron	*Ardeola bacchus*	7	Pond-FLW	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	FLW	Point Count	FLW7	Chinese Pond Heron	*Ardeola bacchus*	4	Pond-FLW	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	FLW	Transect	FLW-Transect	Chinese Pond Heron	*Ardeola bacchus*	3	Pond-FLW	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	NSW	Transect	NSW-Transect	Chinese Pond Heron	*Ardeola bacchus*	2	Pond-NSW	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	NSW	Point Count	SP/NSW1	Chinese Pond Heron	*Ardeola bacchus*	3	Pond-NSW	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	NSW	Point Count	SP/NSW2	Chinese Pond Heron	*Ardeola bacchus*	1	WC-NSW	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	YLIE	Transect	YLIE-CW	Chinese Pond Heron	*Ardeola bacchus*	2	YLIE-WC	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	NSW	Point Count	NSW1	Collared Crow	*Corvus torquatus*	1	Pond-NSW	**Uncommon**	**R**	**LC**	**-**	**-**	**NT**	**VU**	Y	Y
Daytime	Wet	NSW	Point Count	NSW1	Common Kingfisher	*Alcedo atthis*	1	Pond-NSW	Common	PM,WV	-	-	-	LC	LC	N	Y
Daytime	Wet	FLW	Transect	FLW-Transect	Common Koel	*Eudynamys scolopaceus*	1	Plantation	Common	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Common Koel	*Eudynamys scolopaceus*	1	Plantation-NSW	Common	R	-	-	-	LC	LC	N	N

Daytime	Wet	NSW	Point Count	SP/NSW1	Common Moorhen	*Gallinula chloropus*	1	Pond-NSW	Common	R	-	-	-	LC	LC	N	Y
Daytime	Wet	YLIE	Transect	YLIE-CW	Common Moorhen	*Gallinula chloropus*	2	YLIE-WC	Common	R	-	-	-	LC	LC	N	Y
Daytime	Wet	FLW	Transect	FLW-Transect	Common Tailorbird	*Orthotomus sutorius*	2	Plantation-FLW	Common	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Common Tailorbird	*Orthotomus sutorius*	1	Plantation-NSW	Common	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Common Tailorbird	*Orthotomus sutorius*	1	Pond-NSW	Common	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Transect	FLW-Transect	Dusky Warbler	*Phylloscopus fuscatus*	1	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Dusky Warbler	*Phylloscopus fuscatus*	1	Reedbed	Common	PM,WV	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Transect	FLW-Transect	Eastern Cattle Egret	*Bubulcus coromandus*	2	Pond-FLW	Common	R.PM	-	-	-	LC	LC	N	Y
Daytime	Wet	FLW	Point Count	FLW6	Eastern Yellow Wagtail	*Motacilla tschutschensis*	1	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW5	Eurasian Tree Sparrow	*Passer montanus*	4	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Eurasian Tree Sparrow	*Passer montanus*	5	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Transect	FLW-Transect	Great Egret	*Ardea alba*	4	Pond-FLW	**Common**	**R,WV**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	NSW	Point Count	NSW1	Great Egret	*Ardea alba*	1	Pond-NSW	**Common**	**R,WV**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	FLW	Transect	FLW-Transect	Grey Heron	*Ardea cinerea*	2	Pond-FLW	**Common**	**WV**	**PRC**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	NSW	Transect	NSW-Transect	Hair-crested Drongo	*Dicrurus hottentottus*	2	Plantation-NSW	Common	PM,SV	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Transect	FLW-Transect	Japanese White-eye	*Zosterops japonicus*	2	Plantation-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Japanese White-eye	*Zosterops japonicus*	1	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Japanese White-eye	*Zosterops japonicus*	1	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	SP/NSW1	Little Egret	*Egretta garzetta*	1	Pond-NSW	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	NSW	Point Count	SP/NSW2	Little Egret	*Egretta garzetta*	1	WC-NSW	**Common**	**R**	**PRC (RC)**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	FLW	Point Count	FLW5	Little Grebe	*Tachybaptus ruficollis*	1	Pond-FLW	**Common**	**R**	**LC**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	FLW	Transect	FLW-Transect	Little Grebe	*Tachybaptus ruficollis*	3	Pond-FLW	**Common**	**R**	**LC**	**-**	**-**	LC	LC	Y	Y
Daytime	Wet	NSW	Transect	NSW-Transect	Masked Laughingthrush	*Garrulax perspicillatus*	4	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Masked Laughingthrush	*Garrulax perspicillatus*	1	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	SP/NSW3	Masked Laughingthrush	*Garrulax perspicillatus*	5	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	NSW1	Oriental Magpie Robin	*Copsychus saularis*	2	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Oriental Magpie Robin	*Copsychus saularis*	2	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N

Daytime	Wet	NSW	Transect	NSW-Transect	Oriental Magpie Robin	*Copsychus saularis*	2	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	NSW1	Pied Kingfisher	*Ceryle rudis*	1	Pond-NSW	Uncommon	R	-	-	-	LC	LC	N	Y
Daytime	Wet	FLW	Point Count	FLW1	Plain Prinia	*Prinia inornata*	2	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	NSW1	Plain Prinia	*Prinia inornata*	2	Pond-NSW	Common	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW1	Red-whiskered Bulbul	*Pycnonotus jocosus*	3	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW2	Red-whiskered Bulbul	*Pycnonotus jocosus*	2	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW6	Red-whiskered Bulbul	*Pycnonotus jocosus*	5	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW7	Red-whiskered Bulbul	*Pycnonotus jocosus*	3	Plantation-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Transect	FLW-Transect	Red-whiskered Bulbul	*Pycnonotus jocosus*	3	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	NSW1	Red-whiskered Bulbul	*Pycnonotus jocosus*	2	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW1	Spotted Dove	*Spilopelia chinensis*	2	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW3	Spotted Dove	*Spilopelia chinensis*	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW4	Spotted Dove	*Spilopelia chinensis*	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW5	Spotted Dove	*Spilopelia chinensis*	2	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW7	Spotted Dove	*Spilopelia chinensis*	2	Plantation-FLW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	NSW1	Spotted Dove	*Spilopelia chinensis*	7	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	Spotted Dove	*Spilopelia chinensis*	2	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	SP/NSW3	Spotted Dove	*Spilopelia chinensis*	2	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW2	White Wagtail	*Motacilla alba*	2	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW3	White Wagtail	*Motacilla alba*	2	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW5	White Wagtail	*Motacilla alba*	4	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Transect	NSW-Transect	White Wagtail	*Motacilla alba*	2	Pond-NSW	Common	PM,WV	-	-	-	LC	LC	N	N
Daytime	Wet	NSW	Point Count	SP/NSW2	White Wagtail	*Motacilla alba*	4	WC-NSW	Common	PM,WV	-	-	-	LC	LC	N	N
Daytime	Wet	FLW	Point Count	FLW2	White-breasted Waterhen	*Amaurornis phoenicurus*	1	Pond-FLW	Common	R	-	-	-	LC	LC	N	Y
Daytime	Wet	FLW	Transect	FLW-Transect	White-breasted Waterhen	*Amaurornis phoenicurus*	1	Pond-FLW	Common	R	-	-	-	LC	LC	N	Y
Daytime	Wet	NSW	Transect	NSW-Transect	Yellow-bellied Prinia	*Prinia flaviventris*	1	Reedbed	Common	R	-	-	-	LC	LC	N	N

Notes:

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

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

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

(4) Fellowes et al. (2002): GC=Global Concern; LC=Local Concern; RC=Regional Concern; PRC=Potential Regional Concern; PGC: Potential Global Concern.

Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.

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

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

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

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

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

Species of conservation importance is in bold type face

Appendix F.2a Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (17 May 2021)

Common Name	Abundance	P	Ln(P)	P*Ln(P)	$P*Ln(P)^2$
Azure-winged Magpie	7	0.069307	-2.66921	-0.18499	0.49379
Barn Swallow	6	0.059406	-2.82336	-0.16772	0.473547
Black Drongo	2	0.019802	-3.92197	-0.07766	0.304592
Black Kite	1	0.009901	-4.61512	-0.04569	0.210885
Black-collared Starling	1	0.009901	-4.61512	-0.04569	0.210885
Chinese Pond Heron	15	0.148515	-1.90707	-0.28323	0.540136
Collared Crow	1	0.009901	-4.61512	-0.04569	0.210885
Common Kingfisher	1	0.009901	-4.61512	-0.04569	0.210885
Common Moorhen	1	0.009901	-4.61512	-0.04569	0.210885
Eastern Yellow Wagtail	1	0.009901	-4.61512	-0.04569	0.210885
Eurasian Tree Sparrow	4	0.039604	-3.22883	-0.12787	0.412884
Great Egret	1	0.009901	-4.61512	-0.04569	0.210885
Little Egret	2	0.019802	-3.92197	-0.07766	0.304592
Little Grebe	1	0.009901	-4.61512	-0.04569	0.210885
Masked Laughingthrush	5	0.049505	-3.00568	-0.1488	0.447234
Oriental Magpie Robin	2	0.019802	-3.92197	-0.07766	0.304592
Pied Kingfisher	1	0.009901	-4.61512	-0.04569	0.210885
Plain Prinia	4	0.039604	-3.22883	-0.12787	0.412884
Red-whiskered Bulbul	15	0.148515	-1.90707	-0.28323	0.540136
Spotted Dove	17	0.168317	-1.78191	-0.29992	0.534438
White Wagtail	12	0.118812	-2.13021	-0.25309	0.539146
White-breasted Waterhen	1	0.009901	-4.61512	-0.04569	0.210885
Total	**101**				
Richness	**22**				
SS	**7.416815**				
SQ	**6.587802**				
H	**2.566671**				
S^2_H	**0.009237**				

Appendix F.2b Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (17 May 2021)

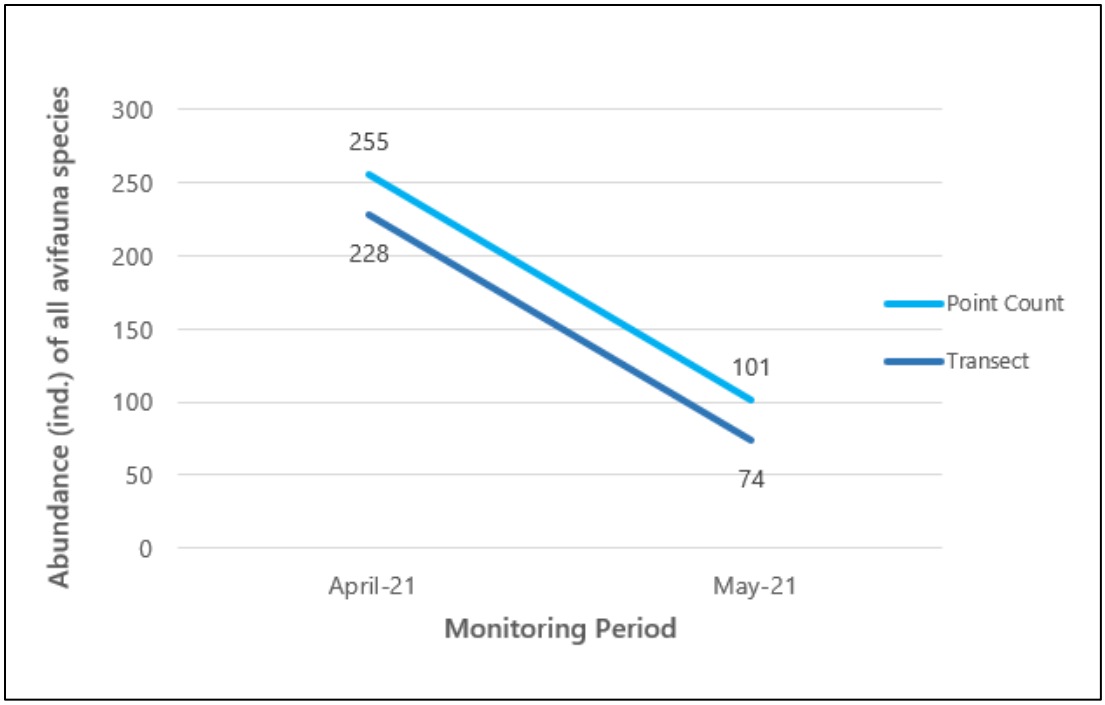
Common Name	Abundance	P	Ln(P)	P*Ln(P)	$P*Ln(P)^2$
Black Kite	1	0.047619	-3.04452	-0.14498	0.441387
Chinese Pond Heron	15	0.714286	-0.33647	-0.24034	0.080867
Collared Crow	1	0.047619	-3.04452	-0.14498	0.441387
Great Egret	1	0.047619	-3.04452	-0.14498	0.441387
Little Egret	2	0.095238	-2.35138	-0.22394	0.526568
Little Grebe	1	0.047619	-3.04452	-0.14498	0.441387
Total	**21**				
Richness	**6**				
SS	**2.372981**				
SQ	**1.090326**				
H	**1.044187**				
S^2_H	**0.066748**				

Appendix F.2c Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (17 May 2021)

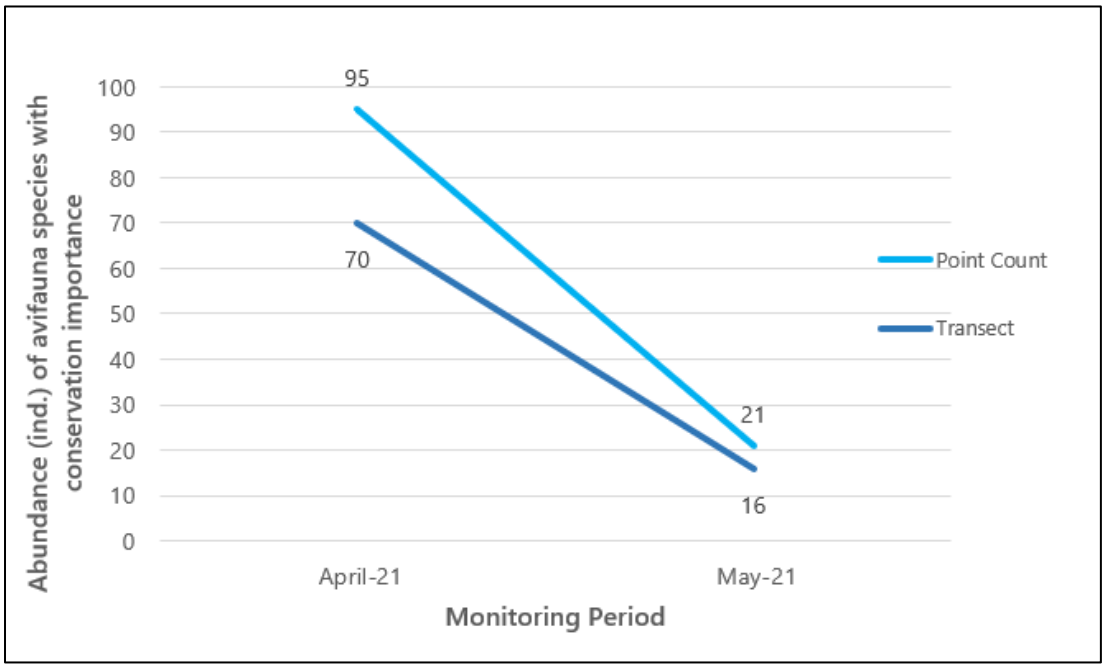
Common Name	Abundance	P	Ln(P)	P*Ln(P)	$P*Ln(P)^2$
Azure-winged Magpie	5	0.067568	-2.69463	-0.18207	0.490609
Barn Swallow	8	0.108108	-2.22462	-0.2405	0.535022
Black-collared Starling	2	0.027027	-3.61092	-0.09759	0.352398
Chinese Bulbul	2	0.027027	-3.61092	-0.09759	0.352398
Chinese Pond Heron	7	0.094595	-2.35815	-0.22307	0.526031
Common Koel	2	0.027027	-3.61092	-0.09759	0.352398
Common Moorhen	2	0.027027	-3.61092	-0.09759	0.352398
Common Tailorbird	4	0.054054	-2.91777	-0.15772	0.460183
Dusky Warbler	2	0.027027	-3.61092	-0.09759	0.352398
Eastern Cattle Egret	2	0.027027	-3.61092	-0.09759	0.352398
Eurasian Tree Sparrow	5	0.067568	-2.69463	-0.18207	0.490609
Great Egret	4	0.054054	-2.91777	-0.15772	0.460183
Grey Heron	2	0.027027	-3.61092	-0.09759	0.352398
Hair-crested Drongo	2	0.027027	-3.61092	-0.09759	0.352398
Japanese White-eye	4	0.054054	-2.91777	-0.15772	0.460183
Little Grebe	3	0.040541	-3.20545	-0.12995	0.416551
Masked Laughingthrush	5	0.067568	-2.69463	-0.18207	0.490609
Oriental Magpie Robin	4	0.054054	-2.91777	-0.15772	0.460183
Red-whiskered Bulbul	3	0.040541	-3.20545	-0.12995	0.416551
Spotted Dove	2	0.027027	-3.61092	-0.09759	0.352398
White Wagtail	2	0.027027	-3.61092	-0.09759	0.352398
White-breasted Waterhen	1	0.013514	-4.30407	-0.05816	0.250338
Yellow-bellied Prinia	1	0.013514	-4.30407	-0.05816	0.250338
Total	**74**				
Richness	**23**				
SS	**9.23137**				
SQ	**8.956837**				
H	**2.992798**				
S^2_H	**0.005719**				

Appendix F.2d Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (17 May 2021)

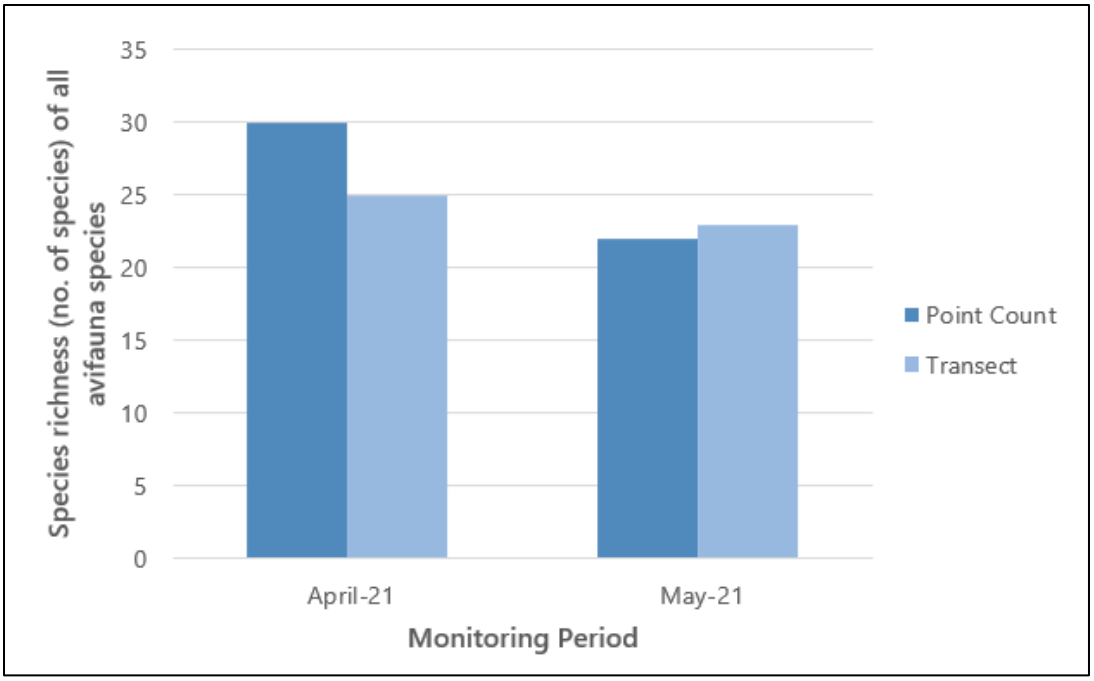
Taxon	Abundance	P	Ln(P)	P*Ln(P)	$P*Ln(P)^2$
Chinese Pond Heron	7	0.4375	-0.82668	-0.36167	0.298986
Great Egret	4	0.25	-1.38629	-0.34657	0.480453
Grey Heron	2	0.125	-2.07944	-0.25993	0.54051
Little Grebe	3	0.1875	-1.67398	-0.31387	0.525412
Total	**16**				
Richness	**4**				
SS	**1.845361**				
SQ	**1.643643**				
H	**1.282046**				
S^2_H	**0.018467**				



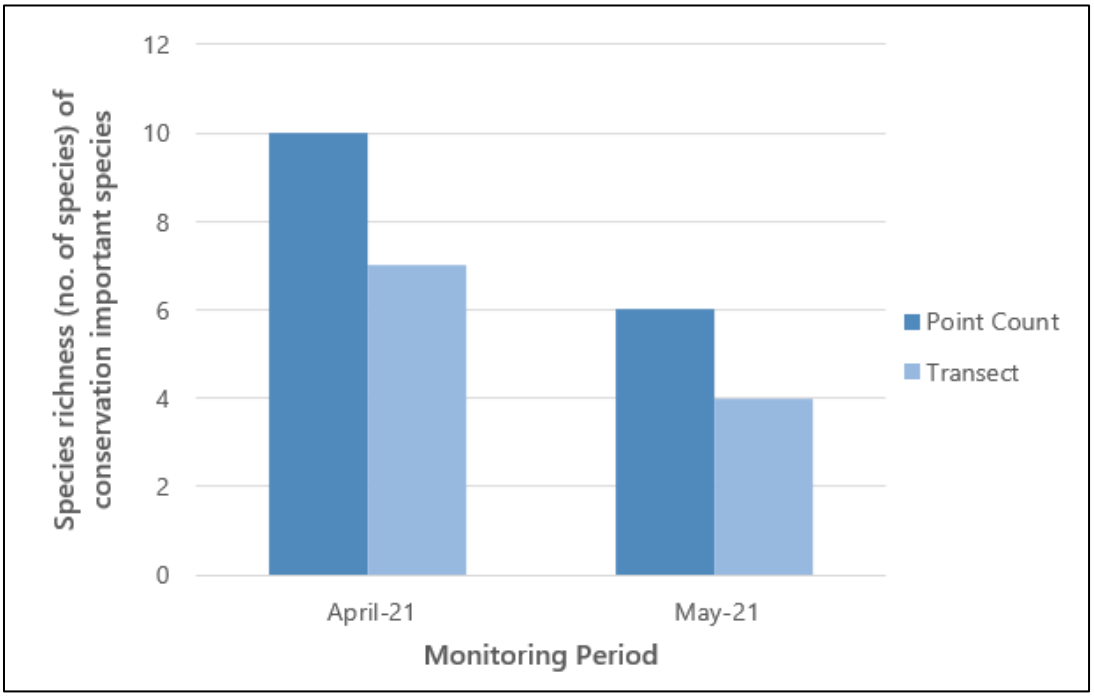
Appendix F.3a Abundance of all avifauna species throughout the monitoring period



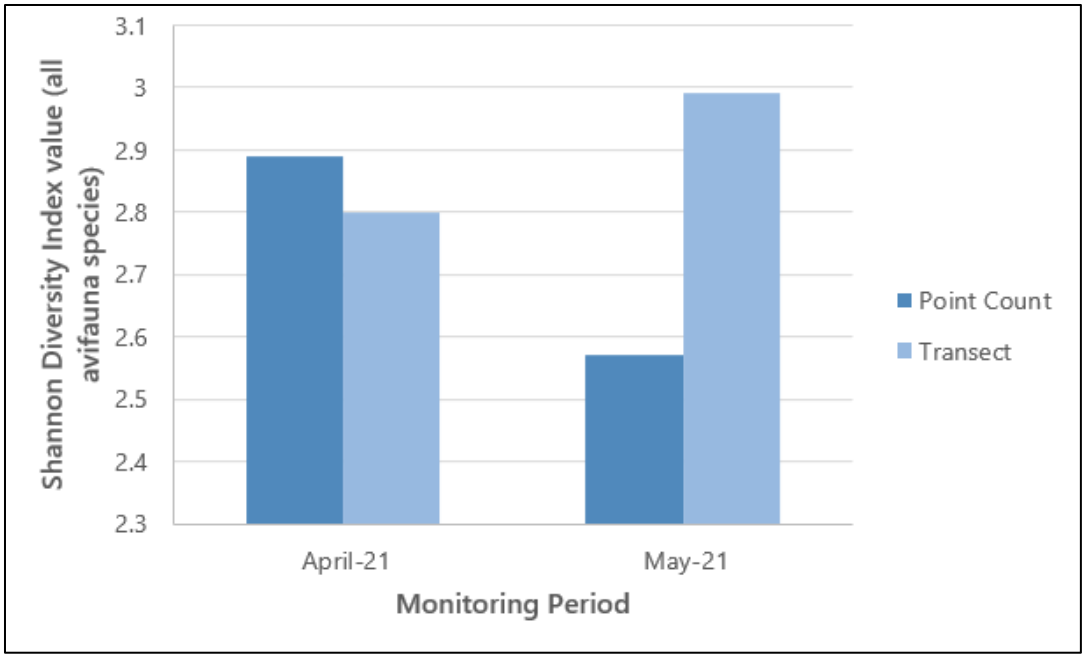
Appendix F.3b Abundance of avifauna species with conservation importance throughout the monitoring period



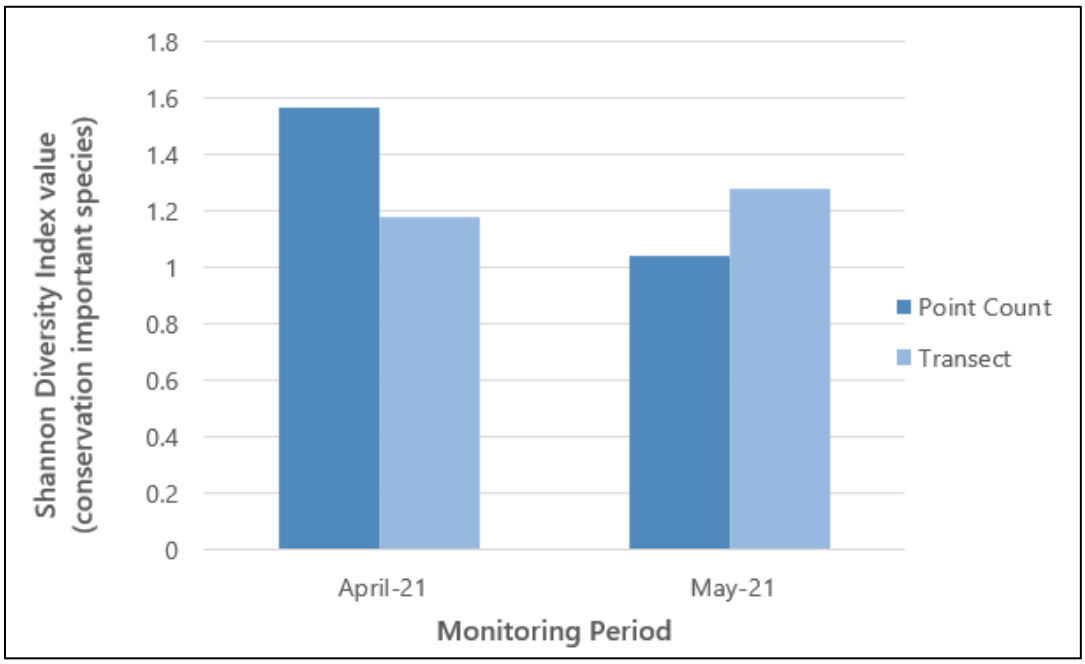
Appendix F.3c Species richness of all avifauna species throughout the monitoring period



Appendix F.3d Species richness of avifauna species with conservation importance throughout the monitoring period



Appendix F.3e Shannon Diversity Index values of all avifauna species throughout the monitoring period



Appendix F.3f Shannon Diversity Index values of avifauna species with conservation importance throughout the monitoring period

Appendix F.4a Baseline data (May 2017) per point count location

Point count location	Common Name	Abundance
FLW1	Black-collared Starling	1
	Chinese Pond Heron	1
	Greater Coucal	1
FLW2	Crested Myna	1
	Eurasian Collared Dove	1
	Yellow-bellied Prinia	2
FLW3	Eurasian Collared Dove	1
	Red-whiskered Bulbul	2
	Spotted Dove	1
	White Wagtail	1
	Yellow-bellied Prinia	1
FLW4	Barn Swallow	1
	Black Drongo	1
	Chinese Pond Heron	1
	Eurasian Collared Dove	2
	Great Egret	1
	Little Grebe	7
	Pied Kingfisher	2
	Spotted Dove	1
	Yellow-bellied Prinia	2
FLW5	Black Drongo	3
	Chinese Pond Heron	1
	Eastern Yellow Wagtail	1
	Great Egret	1
	Little Egret	1
	Little Grebe	2
	Plain Prinia	1
	Spotted Dove	2
	Yellow-bellied Prinia	1
FLW6	Azure-winged Magpie	2

	Black Kite	1
	Black-collared Starling	3
	Black-crowned Night Heron	8
	Chinese Bulbul	2
	Chinese Pond Heron	2
	Crested Myna	1
	Great Egret	13
	Little Egret	4
	Little Grebe	1
	Oriental Magpie Robin	1
	Spotted Dove	4
	White Wagtail	1
	White-breasted Waterhen	1
FLW7	Azure-winged Magpie	5
	Black Drongo	1
	Chinese Bulbul	3
	Common Kingfisher	1
	Crested Myna	5
	Masked Laughingthrush	3
	Red-whiskered Bulbul	3
	Spotted Dove	1
NSW1	Barn Swallow	3
	Black Kite	1
	Black-collared Starling	1
	Chinese Pond Heron	1
	Common Moorhen	1
	Common Tailorbird	2
	Crested Myna	2
	Eurasian Tree Sparrow	2
	Greater Coucal	1
	Japanese White-eye	1
	Little Egret	1

	Masked Laughingthrush	1
	Oriental Magpie Robin	1
	Plain Prinia	3
	Red-whiskered Bulbul	5
	Spotted Dove	4
	White Wagtail	1
	Yellow Bittern	1
	Yellow-bellied Prinia	4
SP/NSW1	Barn Swallow	3
	Chinese Pond Heron	4
	Great Egret	1
	Spotted Dove	1
SP/NSW2	Barn Swallow	2
	Chinese Pond Heron	1
	Eurasian Tree Sparrow	3
	Great Egret	1
	Japanese White-eye	1
	Little Egret	1
SP/NSW3	Black-winged Stilt	13
	Chinese Pond Heron	2
	Common Tailorbird	1
	Crested Myna	1
	Great Egret	5
	Japanese White-eye	1
	Little Egret	2
	Spotted Dove	1
Total		**190**

Appendix F.4b Impact data (May 2021) per point count location

Point count location	**Common Name**	**Abundance**
FLW1	Plain Prinia	2
	Red-whiskered Bulbul	3
	Spotted Dove	2

FLW2	Red-whiskered Bulbul	2
	White Wagtail	2
	White-breasted Waterhen	1
FLW3	Black Kite	1
	Spotted Dove	1
	White Wagtail	2
FLW4	Black Drongo	1
	Spotted Dove	1
FLW5	Eurasian Tree Sparrow	4
	Little Grebe	1
	Spotted Dove	2
	White Wagtail	4
FLW6	Azure-winged Magpie	7
	Black Drongo	1
	Chinese Pond Heron	7
	Eastern Yellow Wagtail	1
	Red-whiskered Bulbul	5
FLW7	Chinese Pond Heron	4
	Red-whiskered Bulbul	3
	Spotted Dove	2
NSW1	Collared Crow	1
	Common Kingfisher	1
	Great Egret	1
	Oriental Magpie Robin	2
	Pied Kingfisher	1
	Plain Prinia	2
	Red-whiskered Bulbul	2
	Spotted Dove	7
SP/NSW1	Barn Swallow	2
	Chinese Pond Heron	3
	Common Moorhen	1
	Little Egret	1
SP/NSW2	Barn Swallow	4
	Chinese Pond Heron	1
	Little Egret	1
	White Wagtail	4
SP/NSW3	Black-collared Starling	1
	Masked Laughingthrush	5
	Spotted Dove	2
Total		**101**

Appendix F.4c Testing method and output

Testing method: Two-tailed Unpaired t-test at α = 0.05

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

Output:

Treatment 1 (Baseline Data)

N1: 98

df_1 = 97

M_1: 1.94

SS_1: 397.63

s^2_1 = 4.1

Treatment 2 (Impact Data)

N2: 42

df_2 = 41

M_2: 2.4

SS_2: 126.12

s^2_2 = 3.08

t-value: -1.29695

p-value: 0.196812

The result is not significant at p < .05.