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

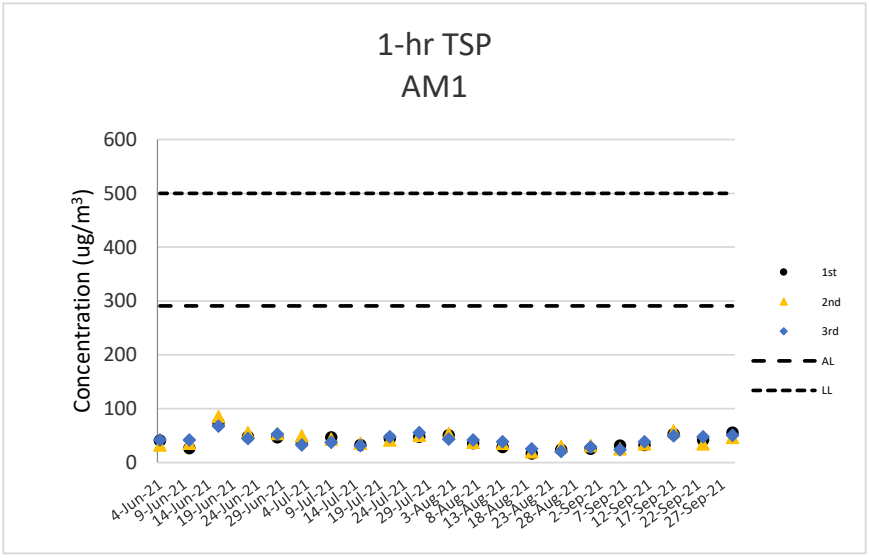
AM1 - Topfine Machinery (China) Co. Ltd.

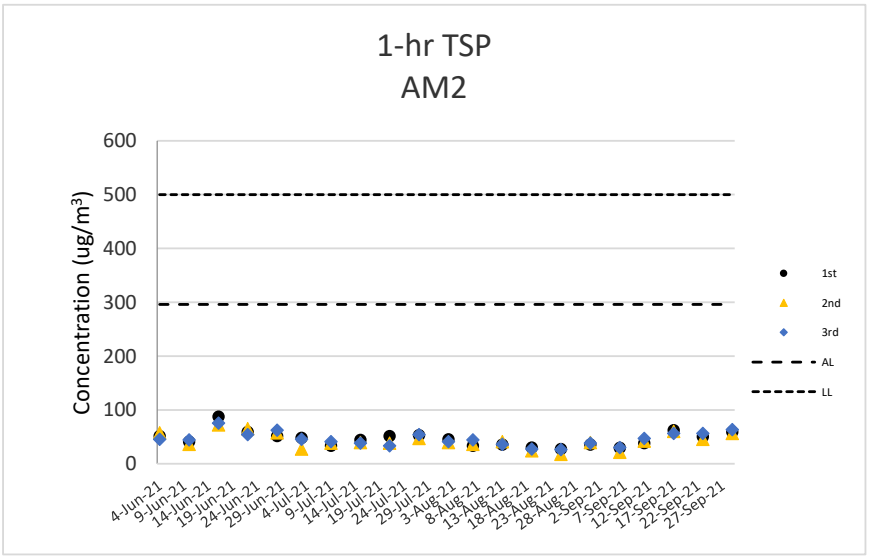
Date	Weather Condition	Start Time	1-hour TSP (µg/m³) 1st Measurement	2nd Measurement	3rd Measurement	Action Level (ug/m^3)	Limit Level (ug/m^3)
6-Sep-21	Fine	8:34	32	26	24	291	500
11-Sep-21	Cloudy	9:14	33	35	39		
17-Sep-21	Cloudy	8:39	53	59	50		
23-Sep-21	Cloudy	8:39	42	35	48		
29-Sep-21	Cloudy	8:46	56	47	51		
		Min	24				
		Max	59				
		Average	42				

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-Sep-21	Fine	8:47	29	21	30	296	500
11-Sep-21	Cloudy	9:38	38	42	47		
17-Sep-21	Cloudy	8:55	62	60	56		
23-Sep-21	Cloudy	8:53	50	45	56		
29-Sep-21	Cloudy	8:59	59	56	63		
		Min	21				
		Max	63				
		Average	48				

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
1st
2nd
3rd
AL
LL
4-Jun-21
9-Jun-21
14-Jun-21
19-Jun-21
24-Jun-21
29-Jun-21
4-Jul-21
9-Jul-21
14-Jul-21
19-Jul-21
24-Jul-21
29-Jul-21
3-Aug-21
8-Aug-21
13-Aug-21
18-Aug-21
23-Aug-21
28-Aug-21
2-Sep-21
7-Sep-21
12-Sep-21
17-Sep-21
22-Sep-21
27-Sep-21


1-hr TSP
AM2
Concentration (ug/m³)
600
500
400
300
200
100
0
1st
2nd
3rd
AL
LL
4-Jun-21
9-Jun-21
14-Jun-21
19-Jun-21
24-Jun-21
29-Jun-21
4-Jul-21
9-Jul-21
14-Jul-21
19-Jul-21
24-Jul-21
29-Jul-21
3-Aug-21
8-Aug-21
13-Aug-21
18-Aug-21
23-Aug-21
28-Aug-21
2-Sep-21
7-Sep-21
12-Sep-21
17-Sep-21
22-Sep-21
27-Sep-21

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-Sep-21	10:38	53	58	48	0.8	Fine	75
17-Sep-21	10:28	55	57	53	0.3	Cloudy	75
23-Sep-21	10:41	55	56	52	0.1	Cloudy	75
29-Sep-21	10:26	53	55	51	0.1	Cloudy	75
	Max	55					
	Min	53					

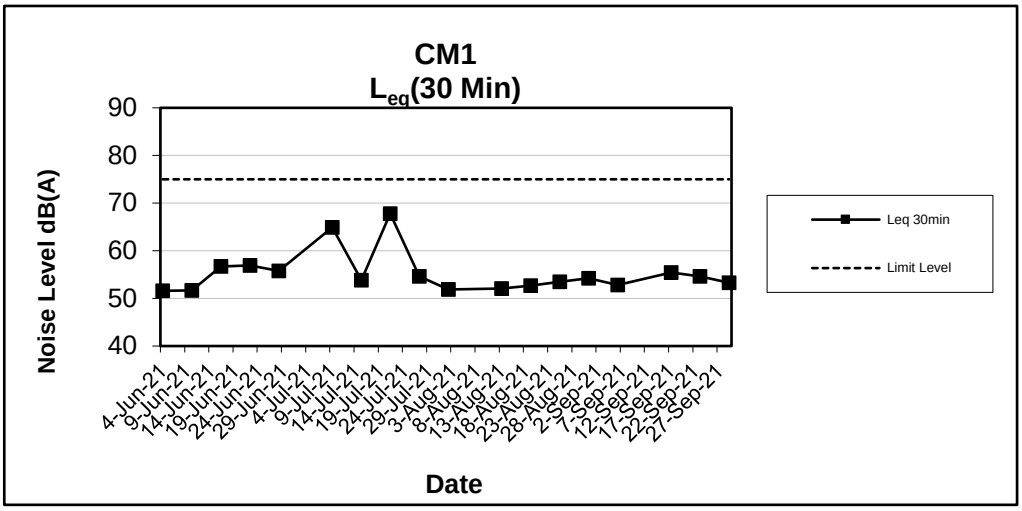
CM2 - Squatter house to the west of YLSTW

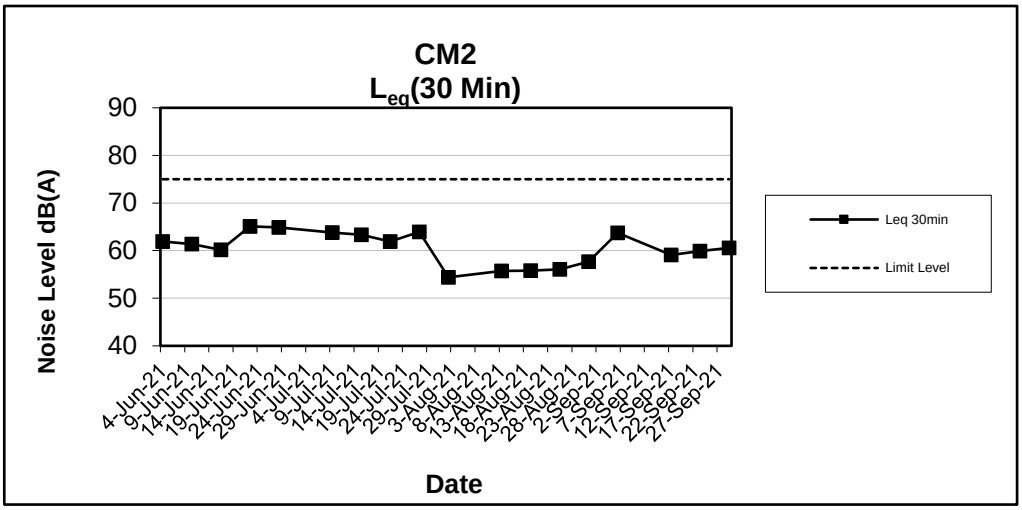
Date	Start Time	L_{eq} 30min dB(A)	L_{10} dB(A)	L_{90} dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6-Sep-21	8:52	64	67	60	0.8	Fine	75
17-Sep-21	9:09	59	63	54	0.2	Cloudy	75
23-Sep-21	9:17	60	64	54	0.3	Cloudy	75
29-Sep-21	9:10	61	64	55	0.2	Cloudy	75
	Max	64					
	Min	59					

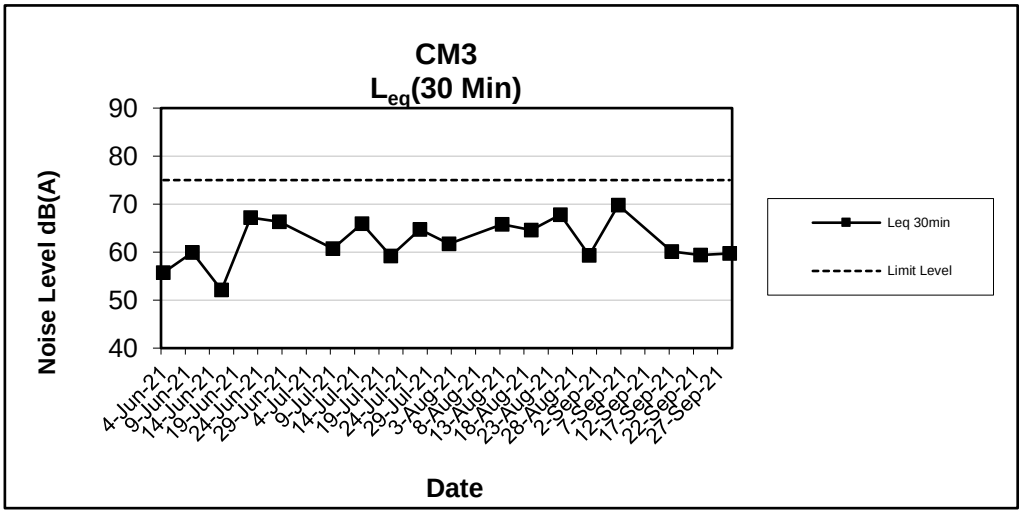
CM3 - Squatter house to the east of YLSTW

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-Sep-21	9:41	70	73	66	0.7	Fine	75
17-Sep-21	13:11	60	64	55	0.2	Cloudy	75
23-Sep-21	13:10	59	63	55	0.3	Cloudy	75
29-Sep-21	13:07	60	64	54	0.2	Cloudy	75
	Max	70					
	Min	59					

Note:
CM1, CM2 and CM3: Free-field measurement (+3dB(A) correction has been applied).
No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.


CM1
L_{eq}(30 Min)
Noise Level dB(A)
90
80
70
60
50
40
4-Jun-21
9-Jun-21
14-Jun-21
19-Jun-21
24-Jun-21
29-Jun-21
4-Jul-21
9-Jul-21
14-Jul-21
19-Jul-21
24-Jul-21
29-Jul-21
3-Aug-21
8-Aug-21
13-Aug-21
18-Aug-21
23-Aug-21
28-Aug-21
2-Sep-21
7-Sep-21
12-Sep-21
17-Sep-21
22-Sep-21
27-Sep-21
Date
Leq 30min
Limit Level


CM2
L_{eq}(30 Min)
Noise Level dB(A)
90
80
70
60
50
40
4-Jun-21
9-Jun-21
14-Jun-21
19-Jun-21
24-Jun-21
29-Jun-21
4-Jul-21
9-Jul-21
14-Jul-21
19-Jul-21
24-Jul-21
29-Jul-21
3-Aug-21
8-Aug-21
13-Aug-21
18-Aug-21
23-Aug-21
28-Aug-21
2-Sep-21
7-Sep-21
12-Sep-21
17-Sep-21
22-Sep-21
27-Sep-21
Date
Leq 30min
Limit Level


CM3
L_{eq}(30 Min)
Noise Level dB(A)
90
80
70
60
50
40
4-Jun-21
9-Jun-21
14-Jun-21
19-Jun-21
24-Jun-21
29-Jun-21
4-Jul-21
9-Jul-21
14-Jul-21
19-Jul-21
24-Jul-21
29-Jul-21
3-Aug-21
8-Aug-21
13-Aug-21
18-Aug-21
23-Aug-21
28-Aug-21
2-Sep-21
7-Sep-21
12-Sep-21
17-Sep-21
22-Sep-21
27-Sep-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	2/9/2021	Mid-Flood	Fine	Calm	18:38	1.8	M	0.9	1	0.162	207	7.71	7.71	3.72	3.72	30.98	30.99	37.5	37.7	2.76	2.78	12.2	12.2	16	17
M1	2/9/2021	Mid-Flood	Fine	Calm	18:38	1.8	M	0.9	2			7.71		3.71		30.99		37.9		2.79		12.2		17	
M2	2/9/2021	Mid-Flood	Fine	Calm	18:19	1.2	M	0.6	1	0.129	281	7.74	7.74	4.42	4.43	30.85	30.85	36.4	36.5	2.66	2.67	12.3	12.4	19	19
M2	2/9/2021	Mid-Flood	Fine	Calm	18:19	1.2	M	0.6	2			7.73		4.43		30.84		36.5		2.67		12.4		18	
M3	2/9/2021	Mid-Flood	Fine	Moderate	18:20	1.4	M	0.7	1	0.049	81	7.11	7.12	3.14	3.16	29.51	29.52	50.7	50.7	4.03	4.02	19.1	19.1	18	19
M3	2/9/2021	Mid-Flood	Fine	Moderate	18:20	1.4	M	0.7	2			7.12		3.18		29.52		50.6		4.01		19.1		19	
M1	2/9/2021	Mid-Ebb	Fine	Calm	10:13	2	M	1	1	0.068	181	7.43	7.43	3.31	3.32	30.42	30.42	35.6	35.7	2.62	2.63	10.3	10.2	9	10
M1	2/9/2021	Mid-Ebb	Fine	Calm	10:13	2	M	1	2			7.42		3.32		30.42		35.8		2.63		10.1		10	
M2	2/9/2021	Mid-Ebb	Fine	Calm	10:33	1.4	M	0.7	1	0.1	213	7.61	7.60	2.91	2.91	30.65	30.65	33.0	33.0	2.40	2.40	13.2	13.2	19	20
M2	2/9/2021	Mid-Ebb	Fine	Calm	10:33	1.4	M	0.7	2			7.59		2.90		30.64		32.9		2.40		13.2		20	
M3	2/9/2021	Mid-Ebb	Fine	Moderate	10:24	0.8	M	0.4	1	0.034	175	7.13	7.13	2.21	2.23	29.39	29.39	44.8	44.8	3.41	3.40	30.0	30.0	15	16
M3	2/9/2021	Mid-Ebb	Fine	Moderate	10:24	0.8	M	0.4	2			7.12		2.24		29.38		44.7		3.38		30.0		16	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.
4. 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
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	104	167

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	4/9/2021	Mid-Flood	Fine	Moderate	19:36	1.2	M	0.6	1	0.13	179	7.21	7.23	2.54	2.55	28.66	28.67	49.2	49.5	3.58	3.60	31.8	31.8	35	33
M1	4/9/2021	Mid-Flood	Fine	Moderate	19:36	1.2	M	0.6	2			7.25		2.55		28.67		49.7		3.62		31.7		31	
M2	4/9/2021	Mid-Flood	Fine	Moderate	19:18	1.4	M	0.7	1	0.117	195	7.24	7.27	2.34	2.37	28.74	28.72	48.1	48.2	3.46	3.47	31.2	31.2	35	37
M2	4/9/2021	Mid-Flood	Fine	Moderate	19:18	1.4	M	0.7	2			7.29		2.39		28.69		48.2		3.47		31.2		38	
M3	4/9/2021	Mid-Flood	Cloudy	Smooth	19:21	0.6	M	0.3	1	0.103	71	7.17	7.17	3.87	3.87	31.52	31.52	52.7	52.6	3.93	3.92	39.6	39.6	29	29
M3	4/9/2021	Mid-Flood	Cloudy	Smooth	19:21	0.6	M	0.3	2			7.17		3.86		31.51		52.4		3.91		39.6		29	
M1	4/9/2021	Mid-Ebb	Fine	Moderate	12:19	0.9	M	0.45	1	0.065	91	7.11	7.15	7.20	7.17	31.11	31.13	51.2	51.3	3.65	3.66	28.1	28.2	24	25
M1	4/9/2021	Mid-Ebb	Fine	Moderate	12:19	0.9	M	0.45	2			7.19		7.14		31.15		51.4		3.67		28.3		26	
M2	4/9/2021	Mid-Ebb	Fine	Moderate	12:38	1.1	M	0.55	1	0.052	124	7.10	7.11	7.04	7.04	31.31	31.31	54.7	54.8	3.89	3.91	28.9	28.9	27	30
M2	4/9/2021	Mid-Ebb	Fine	Moderate	12:38	1.1	M	0.55	2			7.12		7.03		31.32		54.9		3.92		28.9		33	
M3	4/9/2021	Mid-Ebb	Cloudy	Smooth	12:07	0.8	M	0.4	1	0.16	248	6.62	6.63	2.98	2.99	30.12	30.11	49.5	49.7	3.73	3.74	45.3	45.3	26	30
M3	4/9/2021	Mid-Ebb	Cloudy	Smooth	12:07	0.8	M	0.4	2			6.63		2.99		30.10		49.8		3.75		45.3		33	

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
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	104	167

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	7/9/2021	Mid-Flood	Cloudy	Smooth	7:24	2.4	M	1.2	1	0.247	174	7.60	7.61	9.98	9.98	30.37	30.37	56.9	57.5	4.04	4.08	15.8	15.8	21	21
M1	7/9/2021	Mid-Flood	Cloudy	Smooth	7:24	2.4	M	1.2	2			7.61		9.97		30.37		58.0		4.12		15.9		21	
M2	7/9/2021	Mid-Flood	Cloudy	Smooth	7:39	1.4	M	0.7	1	0.212	230	7.76	7.77	7.08	7.08	30.44	30.43	59.5	59.3	4.28	4.27	18.3	18.5	23	23
M2	7/9/2021	Mid-Flood	Cloudy	Smooth	7:39	1.4	M	0.7	2			7.77		7.07		30.42		59.1		4.25		18.7		22	
M3	7/9/2021	Mid-Flood	Fine	Moderate	7:31	1.6	M	0.8	1	0.038	119	7.15	7.16	6.42	6.43	30.21	30.22	53.2	53.2	3.86	3.85	28.3	28.3	37	36
M3	7/9/2021	Mid-Flood	Fine	Moderate	7:31	1.6	M	0.8	2			7.16		6.44		30.22		53.1		3.84		28.3		34	
M1	7/9/2021	Mid-Ebb	Cloudy	Smooth	14:25	2	M	1	1	0.188	238	7.52	7.53	8.96	8.96	31.28	31.28	51.9	52.2	3.71	3.73	24.5	24.7	24	25
M1	7/9/2021	Mid-Ebb	Cloudy	Smooth	14:25	2	M	1	2			7.53		8.96		31.27		52.5		3.75		25.0		26	
M2	7/9/2021	Mid-Ebb	Cloudy	Smooth	14:09	1.2	M	0.6	1	0.17	269	7.40	7.41	7.11	7.11	31.72	31.72	49.4	49.7	3.55	3.57	15.0	14.4	20	20
M2	7/9/2021	Mid-Ebb	Cloudy	Smooth	14:09	1.2	M	0.6	2			7.41		7.10		31.72		49.9		3.58		13.8		19	
M3	7/9/2021	Mid-Ebb	Fine	Moderate	14:10	0.9	M	0.45	1	0.068	72	7.28	7.28	4.52	4.53	30.23	30.26	49.5	49.2	3.56	3.54	32.9	32.9	59	57
M3	7/9/2021	Mid-Ebb	Fine	Moderate	14:10	0.9	M	0.45	2			7.27		4.54		30.29		48.8		3.52		32.9		54	

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
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	104	167

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	9/9/2021	Mid-Flood	Fine	Moderate	9:02	1.2	M	0.6	1	0.05	180	8.13	8.14	7.03	7.04	30.15	30.15	53.1	53.5	3.72	3.76	33.0	32.7	22	24
M1	9/9/2021	Mid-Flood	Fine	Moderate	9:02	1.2	M	0.6	2			8.14		7.04		30.16		53.8		3.79		32.5		25	
M2	9/9/2021	Mid-Flood	Fine	Moderate	9:22	1	M	0.5	1	0.087	197	8.23	8.25	6.44	6.43	29.17	29.20	54.7	54.7	3.82	3.86	34.1	34.2	37	39
M2	9/9/2021	Mid-Flood	Fine	Moderate	9:22	1	M	0.5	2			8.27		6.41		29.23		54.6		3.89		34.2		40	
M3	9/9/2021	Mid-Flood	Fine	Calm	8:59	1	M	0.5	1	0.231	67	7.49	7.50	3.90	3.91	30.52	30.52	47.2	47.7	3.46	3.50	46.6	46.1	46	47
M3	9/9/2021	Mid-Flood	Fine	Calm	8:59	1	M	0.5	2			7.50		3.92		30.52		48.2		3.53		45.6		48	
M1	9/9/2021	Mid-Ebb	Fine	Moderate	15:45	0.9	M	0.45	1	0.143	13	8.03	8.04	7.16	7.15	29.73	29.74	51.1	51.2	3.54	3.56	35.7	35.7	58	55
M1	9/9/2021	Mid-Ebb	Fine	Moderate	15:45	0.9	M	0.45	2			8.04		7.13		29.74		51.3		3.58		35.7		52	
M2	9/9/2021	Mid-Ebb	Fine	Moderate	15:24	0.7	M	0.35	1	0.104	70	8.33	8.36	7.53	7.55	28.94	28.90	48.7	48.5	3.51	3.49	34.7	34.6	35	35
M2	9/9/2021	Mid-Ebb	Fine	Moderate	15:24	0.7	M	0.35	2			8.39		7.57		28.86		48.3		3.47		34.6		34	
M3	9/9/2021	Mid-Ebb	Fine	Calm	15:23	0.8	M	0.4	1	0.189	255	7.21	7.22	3.06	3.06	31.45	31.45	50.3	50.2	3.69	3.68	38.9	39.0	34	35
M3	9/9/2021	Mid-Ebb	Fine	Calm	15:23	0.8	M	0.4	2			7.22		3.05		31.44		50.1		3.67		39.0		36	

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
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	104	167

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	11/9/2021	Mid-Flood	Fine	Moderate	10:41	1.6	M	0.8	1	0.025	213	8.21	8.22	5.11	5.13	30.12	30.13	58.9	59.8	4.11	4.25	36.7	36.7	28	27
M1	11/9/2021	Mid-Flood	Fine	Moderate	10:41	1.6	M	0.8	2			8.22		5.14		30.13		60.7		4.38		36.7		25	
M2	11/9/2021	Mid-Flood	Fine	Moderate	10:59	1.4	M	0.7	1	0.054	323	8.09	8.11	4.97	4.97	29.73	29.74	61.2	61.5	4.42	4.46	35.5	35.5	65	62
M2	11/9/2021	Mid-Flood	Fine	Moderate	10:59	1.4	M	0.7	2			8.12		4.96		29.74		61.8		4.50		35.5		58	
M3	11/9/2021	Mid-Flood	Cloudy	Calm	10:26	0.8	M	0.4	1	0.093	68	7.69	7.70	5.10	5.11	30.82	30.83	53.7	53.4	3.84	3.82	43.2	43.7	58	58
M3	11/9/2021	Mid-Flood	Cloudy	Calm	10:26	0.8	M	0.4	2			7.71		5.12		30.83		53.1		3.80		44.1		57	
M1	11/9/2021	Mid-Ebb	Fine	Moderate	16:45	1.2	M	0.6	1	0.046	13	7.96	7.95	3.86	3.87	30.23	30.24	53.4	53.6	3.88	3.90	38.7	38.7	46	45
M1	11/9/2021	Mid-Ebb	Fine	Moderate	16:45	1.2	M	0.6	2			7.94		3.88		30.24		53.7		3.92		38.8		44	
M2	11/9/2021	Mid-Ebb	Fine	Moderate	16:25	1.1	M	0.55	1	0.104	7	7.91	7.92	3.44	3.46	29.76	29.77	51.7	51.8	3.64	3.66	40.3	40.4	46	48
M2	11/9/2021	Mid-Ebb	Fine	Moderate	16:25	1.1	M	0.55	2			7.92		3.47		29.77		51.9		3.67		40.4		50	
M3	11/9/2021	Mid-Ebb	Cloudy	Calm	16:31	0.6	M	0.3	1	0.082	271	7.40	7.40	6.36	6.36	31.31	31.31	48.3	48.5	3.48	3.50	46.8	46.9	55	55
M3	11/9/2021	Mid-Ebb	Cloudy	Calm	16:31	0.6	M	0.3	2			7.39		6.36		31.30		48.7		3.51		47.1		54	

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	44.1	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	52.4	56.8	61.5	68

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	14/9/2021	Mid-Flood	Fine	Moderate	15:03	1.3	M	0.65	1	0.141	18	7.58	7.56	3.28	3.29	29.77	29.76	54.4	54.2	4.11	4.09	29.6	29.5	36	38
M1	14/9/2021	Mid-Flood	Fine	Moderate	15:03	1.3	M	0.65	2			7.54		3.29		29.74		53.9		4.06		29.5		40	
M2	14/9/2021	Mid-Flood	Fine	Moderate	14:43	1.4	M	0.7	1	0.108	79	7.79	7.77	3.14	3.16	30.76	30.75	52.4	52.2	3.92	3.89	31.5	31.5	34	37
M2	14/9/2021	Mid-Flood	Fine	Moderate	14:43	1.4	M	0.7	2			7.74		3.18		30.74		51.9		3.86		31.5		39	
M3	14/9/2021	Mid-Flood	Cloudy	Calm	14:46	0.4	M	0.2	1	0.205	73	7.80	7.81	4.32	4.32	31.62	31.62	55.7	55.9	3.97	3.99	23.8	23.5	30	31
M3	14/9/2021	Mid-Flood	Cloudy	Calm	14:46	0.4	M	0.2	2			7.81		4.31		31.62		56.0		4.00		23.2		32	
M1	14/9/2021	Mid-Ebb	Fine	Moderate	6:51	0.9	M	0.45	1	0.043	118	7.82	7.83	4.36	4.36	31.80	31.79	47.7	47.9	3.42	3.45	29.0	29.0	26	27
M1	14/9/2021	Mid-Ebb	Fine	Moderate	6:51	0.9	M	0.45	2			7.84		4.35		31.79		48.1		3.47		29.0		27	
M2	14/9/2021	Mid-Ebb	Fine	Moderate	7:11	1.1	M	0.55	1	0.083	73	7.74	7.75	3.91	3.92	32.09	32.09	43.5	43.6	3.10	3.12	24.2	24.3	31	32
M2	14/9/2021	Mid-Ebb	Fine	Moderate	7:11	1.1	M	0.55	2			7.75		3.92		32.09		43.6		3.13		24.3		33	
M3	14/9/2021	Mid-Ebb	Cloudy	Calm	6:51	0.6	M	0.3	1	0.263	245	7.51	7.52	3.61	3.61	30.42	30.43	58.6	58.4	4.24	4.23	42.7	42.3	43	45
M3	14/9/2021	Mid-Ebb	Cloudy	Calm	6:51	0.6	M	0.3	2			7.52		3.61		30.43		58.2		4.21		41.9		46	

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For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	16/9/2021	Mid-Flood	Cloudy	Smooth	18:07	1.6	M	0.8	1	0.193	110	7.30	7.31	4.35	4.36	31.54	31.54	37.7	38.2	2.75	2.79	16.4	16.4	19	20
M1	16/9/2021	Mid-Flood	Cloudy	Smooth	18:07	1.6	M	0.8	2			7.32		4.36		31.53		38.6		2.82		16.3		21	
M2	16/9/2021	Mid-Flood	Cloudy	Smooth	17:47	1	M	0.5	1	0.174	290	7.54	7.54	4.17	4.17	31.79	31.80	36.6	37.0	2.66	2.70	26.2	26.2	26	25
M2	16/9/2021	Mid-Flood	Cloudy	Smooth	17:47	1	M	0.5	2			7.54		4.16		31.80		37.4		2.73		26.1		24	
M3	16/9/2021	Mid-Flood	Cloudy	Smooth	17:53	1.1	M	0.55	1	0.043	76	8.55	8.53	2.58	2.57	31.38	31.39	50.7	51.1	4.06	4.05	36.2	35.7	41	41
M3	16/9/2021	Mid-Flood	Cloudy	Smooth	17:53	1.1	M	0.55	2			8.51		2.56		31.39		51.4		4.04		35.1		41	
M1	16/9/2021	Mid-Ebb	Cloudy	Smooth	9:36	2	M	1	1	0.127	172	7.88	7.87	2.78	2.78	30.42	30.42	31.9	32.3	2.33	2.36	23.6	23.4	17	18
M1	16/9/2021	Mid-Ebb	Cloudy	Smooth	9:36	2	M	1	2			7.86		2.78		30.42		32.7		2.39		23.2		19	
M2	16/9/2021	Mid-Ebb	Cloudy	Smooth	9:55	1.2	M	0.6	1	0.138	223	7.48	7.49	2.58	2.58	30.86	30.86	34.7	35.0	2.53	2.56	29.5	31.1	43	44
M2	16/9/2021	Mid-Ebb	Cloudy	Smooth	9:55	1.2	M	0.6	2			7.49		2.58		30.85		35.3		2.58		32.6		44	
M3	16/9/2021	Mid-Ebb	Cloudy	Smooth	9:40	0.6	M	0.3	1	0.049	119	8.14	8.15	2.35	2.36	31.56	31.56	44.5	44.4	3.87	3.83	27.0	27.1	40	38
M3	16/9/2021	Mid-Ebb	Cloudy	Smooth	9:40	0.6	M	0.3	2			8.15		2.36		31.55		44.3		3.79		27.1		36	

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For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	18/9/2021	Mid-Flood	Fine	Moderate	19:37	1.1	M	0.55	1	0.187	65	7.39	7.39	3.68	3.69	28.86	28.85	30.8	30.6	2.18	2.18	21.9	21.9	22	21
M1	18/9/2021	Mid-Flood	Fine	Moderate	19:37	1.1	M	0.55	2			7.38		3.69		28.84		30.4		2.17		21.9		19	
M2	18/9/2021	Mid-Flood	Fine	Moderate	19:16	1.4	M	0.7	1	0.108	75	7.45	7.46	3.44	3.43	28.74	28.75	32.5	32.7	2.34	2.36	19.3	19.3	19	20
M2	18/9/2021	Mid-Flood	Fine	Moderate	19:16	1.4	M	0.7	2			7.46		3.42		28.76		32.8		2.37		19.3		20	
M3	18/9/2021	Mid-Flood	Cloudy	Calm	19:17	0.8	M	0.4	1	0.179	70	7.41	7.41	2.94	2.94	30.52	30.52	47.7	48.2	3.57	3.61	28.4	27.8	29	28
M3	18/9/2021	Mid-Flood	Cloudy	Calm	19:17	0.8	M	0.4	2			7.40		2.93		30.52		48.7		3.64		27.3		26	
M1	18/9/2021	Mid-Ebb	Fine	Moderate	12:01	0.8	M	0.4	1	0.056	196	7.85	7.86	2.19	2.19	30.79	30.78	41.7	41.6	2.94	2.93	23.5	23.6	19	21
M1	18/9/2021	Mid-Ebb	Fine	Moderate	12:01	0.8	M	0.4	2			7.86		2.18		30.76		41.4		2.92		23.6		22	
M2	18/9/2021	Mid-Ebb	Fine	Moderate	12:15	1	M	0.5	1	0.042	71	8.16	8.16	2.33	2.35	30.96	30.95	44.8	44.2	3.27	3.26	21.4	21.4	24	23
M2	18/9/2021	Mid-Ebb	Fine	Moderate	12:15	1	M	0.5	2			8.15		2.36		30.94		43.6		3.24		21.4		22	
M3	18/9/2021	Mid-Ebb	Cloudy	Calm	11:52	1	M	0.5	1	0.14	262	7.11	7.12	2.23	2.24	29.83	29.83	52.6	52.2	3.94	3.91	24.6	24.5	23	23
M3	18/9/2021	Mid-Ebb	Cloudy	Calm	11:52	1	M	0.5	2			7.12		2.24		29.82		51.8		3.88		24.4		22	

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For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	21/9/2021	Mid-Flood	Cloudy	Moderate	7:36	1.2	M	0.6	1	0.13	231	7.28	7.28	6.43	6.44	31.20	31.20	42.4	42.3	3.03	3.02	17.5	17.5	9	10
M1	21/9/2021	Mid-Flood	Cloudy	Moderate	7:36	1.2	M	0.6	2			7.28		6.44		31.20		42.1		3.01		17.5		10	
M2	21/9/2021	Mid-Flood	Cloudy	Moderate	7:51	0.9	M	0.45	1	0.16	262	8.09	8.10	5.14	5.15	31.07	31.31	47.5	47.3	3.40	3.39	18.8	18.8	24	24
M2	21/9/2021	Mid-Flood	Cloudy	Moderate	7:51	0.9	M	0.45	2			8.10		5.16		31.55		47.0		3.37		18.7		23	
M3	21/9/2021	Mid-Flood	Fine	Smooth	7:44	1.6	M	0.8	1	0.037	230	8.00	7.99	1.99	1.96	31.23	31.24	44.3	44.5	3.28	3.31	18.8	18.8	25	25
M3	21/9/2021	Mid-Flood	Fine	Smooth	7:44	1.6	M	0.8	2			7.97		1.92		31.24		44.7		3.33		18.7		25	
M1	21/9/2021	Mid-Ebb	Cloudy	Moderate	14:17	1	M	0.5	1	0.138	181	8.54	8.54	5.76	5.76	31.32	31.32	43.5	43.7	3.12	3.13	20.7	20.7	24	24
M1	21/9/2021	Mid-Ebb	Cloudy	Moderate	14:17	1	M	0.5	2			8.54		5.75		31.32		43.8		3.14		20.7		24	
M2	21/9/2021	Mid-Ebb	Cloudy	Moderate	13:59	0.8	M	0.4	1	0.125	143	8.19	8.19	4.81	4.81	31.27	31.29	51.8	51.6	3.73	3.72	25.6	25.5	27	28
M2	21/9/2021	Mid-Ebb	Cloudy	Moderate	13:59	0.8	M	0.4	2			8.18		4.80		31.30		51.4		3.70		25.5		29	
M3	21/9/2021	Mid-Ebb	Fine	Smooth	14:10	0.9	M	0.45	1	0.059	265	8.31	8.32	1.87	1.87	31.48	31.48	46.6	46.8	3.34	3.36	23.1	23.2	23	24
M3	21/9/2021	Mid-Ebb	Fine	Smooth	14:10	0.9	M	0.45	2			8.32		1.86		31.48		46.9		3.38		23.4		25	

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
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	104	167

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	23/9/2021	Mid-Flood	Fine	Moderate	8:55	1.2	M	0.6	1	0.101	175	7.75	7.75	7.68	7.67	29.77	29.77	55.7	55.6	4.05	4.03	26.4	26.4	11	11
M1	23/9/2021	Mid-Flood	Fine	Moderate	8:55	1.2	M	0.6	2			7.74		7.66		29.77		55.4		4.01		26.3		10	
M2	23/9/2021	Mid-Flood	Fine	Moderate	9:12	1.4	M	0.7	1	0.108	77	7.45	7.45	6.98	6.98	29.63	29.63	48.6	48.6	3.35	3.35	27.9	27.9	21	20
M2	23/9/2021	Mid-Flood	Fine	Moderate	9:12	1.4	M	0.7	2			7.44		6.97		29.63		48.5		3.34		27.9		19	
M3	23/9/2021	Mid-Flood	Cloudy	Calm	8:57	1	M	0.5	1	0.228	84	7.55	7.56	4.49	4.48	29.36	29.36	60.5	60.1	4.49	4.48	36.0	36.1	45	45
M3	23/9/2021	Mid-Flood	Cloudy	Calm	8:57	1	M	0.5	2			7.56		4.47		29.36		59.7		4.47		36.2		45	
M1	23/9/2021	Mid-Ebb	Fine	Moderate	15:15	0.9	M	0.45	1	0.046	310	7.46	7.48	7.28	7.25	20.66	20.66	51.9	51.5	3.79	3.77	20.3	20.3	13	14
M1	23/9/2021	Mid-Ebb	Fine	Moderate	15:15	0.9	M	0.45	2			7.49		7.22		20.66		51.1		3.74		20.2		15	
M2	23/9/2021	Mid-Ebb	Fine	Moderate	14:59	1.1	M	0.55	1	0.06	283	8.34	8.33	6.69	6.67	29.81	29.81	44.2	44.5	3.23	3.25	23.6	23.6	18	18
M2	23/9/2021	Mid-Ebb	Fine	Moderate	14:59	1.1	M	0.55	2			8.31		6.64		29.81		44.8		3.27		23.7		17	
M3	23/9/2021	Mid-Ebb	Cloudy	Calm	15:01	0.8	M	0.4	1	0.12	249	7.32	7.33	3.63	3.63	30.51	30.51	50.9	51.0	3.81	3.82	49.4	49.8	54	55
M3	23/9/2021	Mid-Ebb	Cloudy	Calm	15:01	0.8	M	0.4	2			7.33		3.62		30.50		51.1		3.83		50.2		55	

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
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

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	25/9/2021	Mid-Flood	Fine	Moderate	10:09	1.1	M	0.55	1	0.108	77	8.34	8.33	5.94	5.95	29.61	29.61	61.1	61.2	4.50	4.51	36.7	36.8	44	44
M1	25/9/2021	Mid-Flood	Fine	Moderate	10:09	1.1	M	0.55	2			8.31		5.96		29.61		61.2		4.52		36.8		43	
M2	25/9/2021	Mid-Flood	Fine	Moderate	10:23	0.9	M	0.45	1	0.058	106	7.97	7.97	5.50	5.55	29.86	29.86	34.1	34.2	2.53	2.54	31.4	31.4	37	37
M2	25/9/2021	Mid-Flood	Fine	Moderate	10:23	0.9	M	0.45	2			7.96		5.59		29.85		34.2		2.54		31.4		37	
M3	25/9/2021	Mid-Flood	Fine	Calm	10:12	0.6	M	0.3	1	0.192	75	7.52	7.53	2.87	2.87	30.30	30.30	54.3	54.2	4.06	4.05	43.3	44.0	21	20
M3	25/9/2021	Mid-Flood	Fine	Calm	10:12	0.6	M	0.3	2			7.53		2.87		30.29		54.1		4.03		44.7		19	
M1	25/9/2021	Mid-Ebb	Fine	Moderate	16:11	0.9	M	0.45	1	0.047	343	7.91	7.93	4.92	4.93	28.74	28.75	60.9	60.7	4.57	4.54	31.7	31.8	35	37
M1	25/9/2021	Mid-Ebb	Fine	Moderate	16:11	0.9	M	0.45	2			7.94		4.93		28.76		60.4		4.51		31.8		39	
M2	25/9/2021	Mid-Ebb	Fine	Moderate	15:55	0.7	M	0.35	1	0.041	266	7.75	7.76	5.32	5.34	29.53	29.53	66.8	66.3	4.93	4.90	34.5	34.3	36	38
M2	25/9/2021	Mid-Ebb	Fine	Moderate	15:55	0.7	M	0.35	2			7.76		5.36		29.53		65.7		4.87		34.1		39	
M3	25/9/2021	Mid-Ebb	Fine	Calm	15:56	0.6	M	0.3	1	0.168	251	7.26	7.26	1.70	1.71	30.89	30.90	56.4	56.5	4.19	4.20	49.6	49.3	55	56
M3	25/9/2021	Mid-Ebb	Fine	Calm	15:56	0.6	M	0.3	2			7.25		1.72		30.90		56.5		4.20		49.0		56	

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
M2(Impact Station)	1.88	1.79	44.1	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	50.2	54.3	59	68

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	28/9/2021	Mid-Flood	Cloudy	Smooth	13:29	1.8	M	0.9	1	0.161	139	7.37	7.38	4.96	4.97	30.65	30.65	40.7	41.4	2.98	3.03	25.8	25.4	26	27
M1	28/9/2021	Mid-Flood	Cloudy	Smooth	13:29	1.8	M	0.9	2			7.39		4.97		30.65		42.1		3.08		25.0		27	
M2	28/9/2021	Mid-Flood	Cloudy	Smooth	13:13	0.8	M	0.4	1	0.179	242	7.51	7.51	4.79	4.80	30.77	30.78	58.1	58.4	4.23	4.25	18.6	18.0	28	29
M2	28/9/2021	Mid-Flood	Cloudy	Smooth	13:13	0.8	M	0.4	2			7.51		4.80		30.78		58.7		4.27		17.4		29	
M3	28/9/2021	Mid-Flood	Fine	Moderate	13:09	1.2	M	0.6	1	0.037	225	7.21	7.22	4.04	4.04	30.83	30.83	65.5	65.7	4.78	4.79	23.0	22.9	29	29
M3	28/9/2021	Mid-Flood	Fine	Moderate	13:09	1.2	M	0.6	2			7.22		4.03		30.83		65.8		4.79		22.9		28	
M1	28/9/2021	Mid-Ebb	Cloudy	Smooth	5:38	2.2	M	1.1	1	0.248	204	7.11	7.11	3.70	3.70	29.16	29.16	44.5	44.4	3.27	3.27	16.5	16.7	13	13
M1	28/9/2021	Mid-Ebb	Cloudy	Smooth	5:38	2.2	M	1.1	2			7.11		3.69		29.15		44.3		3.26		16.9		12	
M2	28/9/2021	Mid-Ebb	Cloudy	Smooth	5:56	1.2	M	0.6	1	0.191	303	7.21	7.22	3.87	3.87	29.21	29.22	65.0	64.4	4.73	4.69	22.1	22.1	31	31
M2	28/9/2021	Mid-Ebb	Cloudy	Smooth	5:56	1.2	M	0.6	2			7.22		3.86		29.22		63.8		4.64		22.1		31	
M3	28/9/2021	Mid-Ebb	Fine	Moderate	5:30	0.9	M	0.45	1	0.065	177	7.17	7.18	3.86	3.88	30.94	30.94	64.7	64.5	4.71	4.68	21.5	21.6	24	24
M3	28/9/2021	Mid-Ebb	Fine	Moderate	5:30	0.9	M	0.45	2			7.19		3.89		30.94		64.3		4.64		21.6		23	

Remark

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For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	30/9/2021	Mid-Flood	Fine	Moderate	20:53	1	M	0.5	1	0.128	344	7.06	7.05	5.78	5.78	31.89	31.88	33.1	32.9	2.24	2.23	34.2	34.1	28	30
M1	30/9/2021	Mid-Flood	Fine	Moderate	20:53	1	M	0.5	2			7.04		5.77		31.87		32.6		2.21		33.9		31	
M2	30/9/2021	Mid-Flood	Fine	Moderate	20:33	1.2	M	0.6	1	0.104	213	7.05	7.05	6.05	6.06	31.90	31.91	36.4	36.6	2.49	2.51	29.0	29.0	25	25
M2	30/9/2021	Mid-Flood	Fine	Moderate	20:33	1.2	M	0.6	2			7.04		6.06		31.91		36.8		2.53		29.0		25	
M3	30/9/2021	Mid-Flood	Cloudy	Calm	20:34	0.8	M	0.4	1	0.075	91	7.31	7.32	5.94	5.94	31.15	31.16	46.5	47.2	3.32	3.37	29.9	29.8	35	36
M3	30/9/2021	Mid-Flood	Cloudy	Calm	20:34	0.8	M	0.4	2			7.32		5.93		31.16		47.9		3.42		29.7		37	
M1	30/9/2021	Mid-Ebb	Fine	Moderate	7:41	0.7	M	0.35	1	0.057	337	7.02	7.03	6.31	6.33	32.00	32.02	42.3	42.5	2.99	3.02	22.4	22.4	33	32
M1	30/9/2021	Mid-Ebb	Fine	Moderate	7:41	0.7	M	0.35	2			7.04		6.34		32.04		42.7		3.04		22.4		30	
M2	30/9/2021	Mid-Ebb	Fine	Moderate	7:57	0.9	M	0.45	1	0.067	23	7.14	7.16	5.92	5.93	31.94	31.93	37.8	37.6	2.68	2.66	21.7	21.7	31	31
M2	30/9/2021	Mid-Ebb	Fine	Moderate	7:57	0.9	M	0.45	2			7.17		5.94		31.93		37.4		2.64		21.7		30	
M3	30/9/2021	Mid-Ebb	Cloudy	Calm	7:39	0.6	M	0.3	1	0.204	277	7.08	7.08	5.01	5.02	30.04	30.05	52.6	52.8	4.17	4.18	23.3	23.7	23	24
M3	30/9/2021	Mid-Ebb	Cloudy	Calm	7:39	0.6	M	0.3	2			7.08		5.02		30.05		52.9		4.19		24.0		25	

Remark

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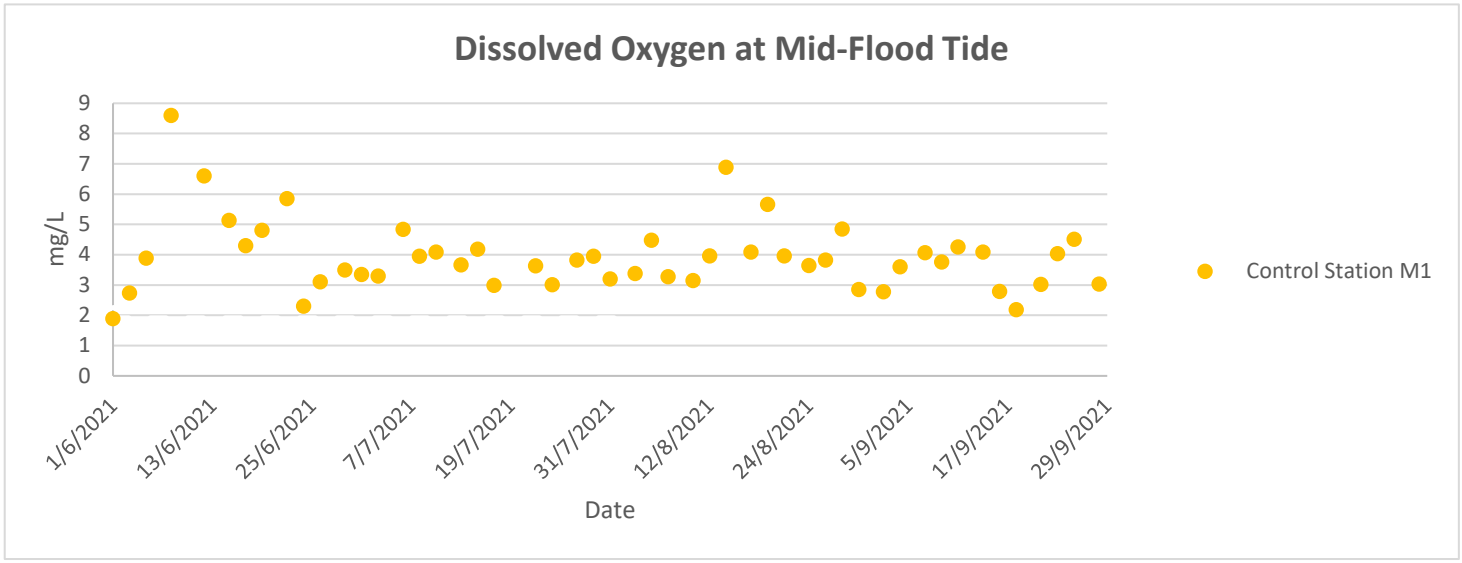
6. Limti Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
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
mg/L
9
8
7
6
5
4
3
2
1
0
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
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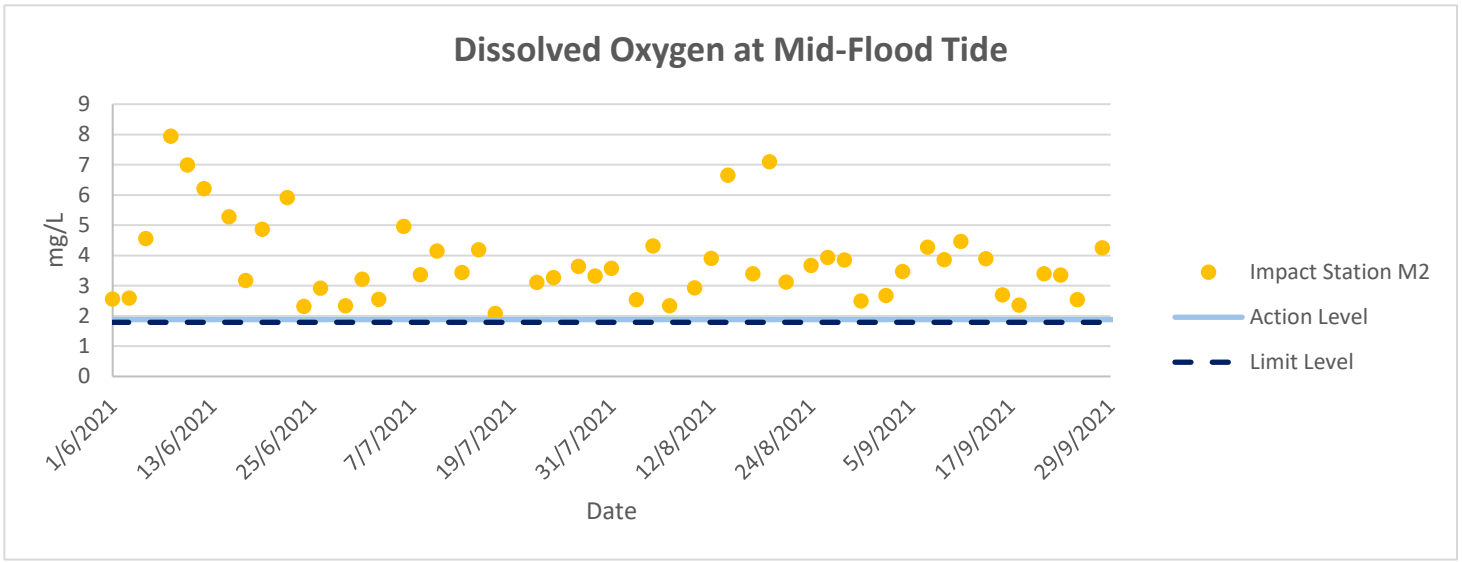
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M1


Dissolved Oxygen at Mid-Flood Tide
mg/L
9
8
7
6
5
4
3
2
1
0
1/6/2021
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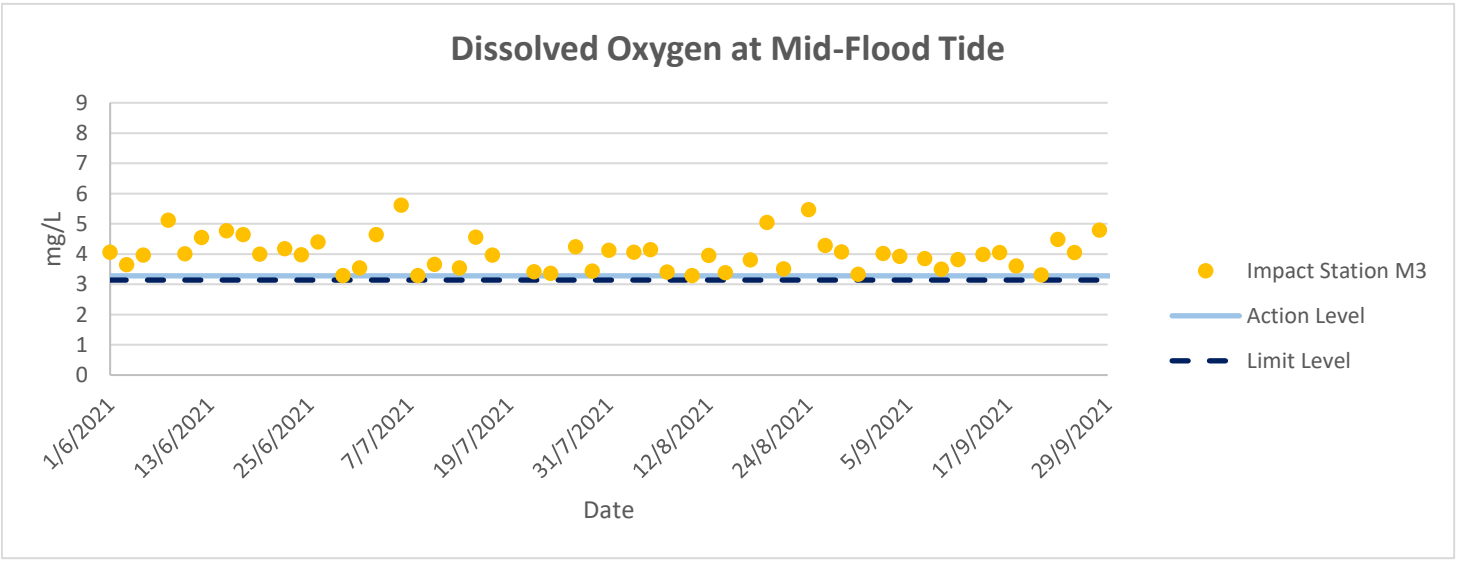
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M2
Action Level
Limit Level


Dissolved Oxygen at Mid-Flood Tide
mg/L
9
8
7
6
5
4
3
2
1
0
1/6/2021
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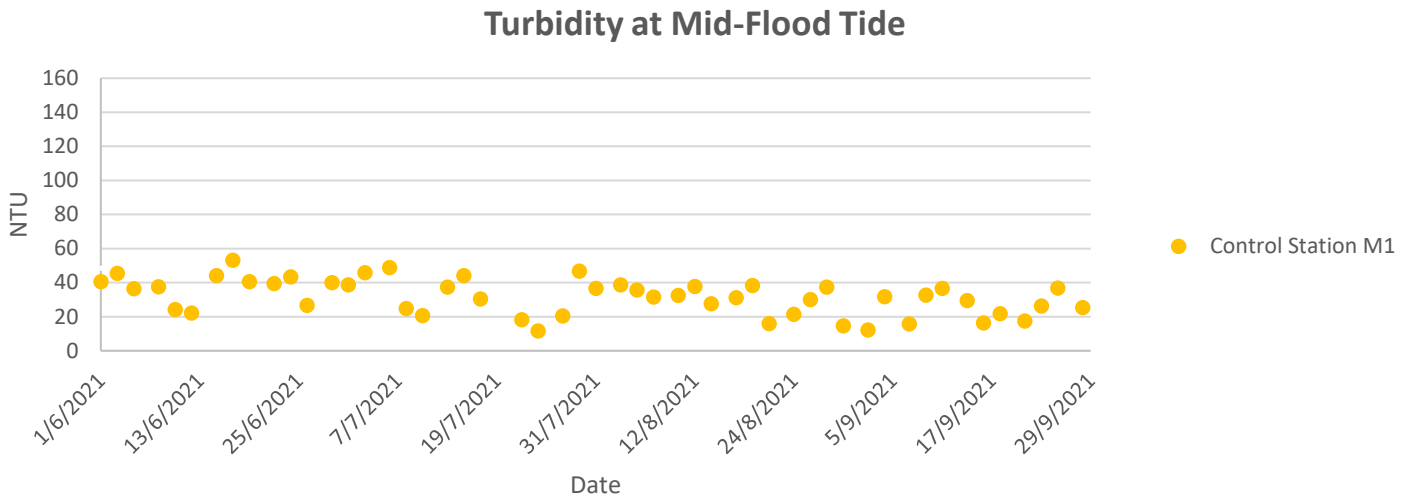
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M3
Action Level
Limit Level


Turbidity at Mid-Flood Tide
160
140
120
100
80
60
40
20
0
NTU
1/6/2021
13/6/2021
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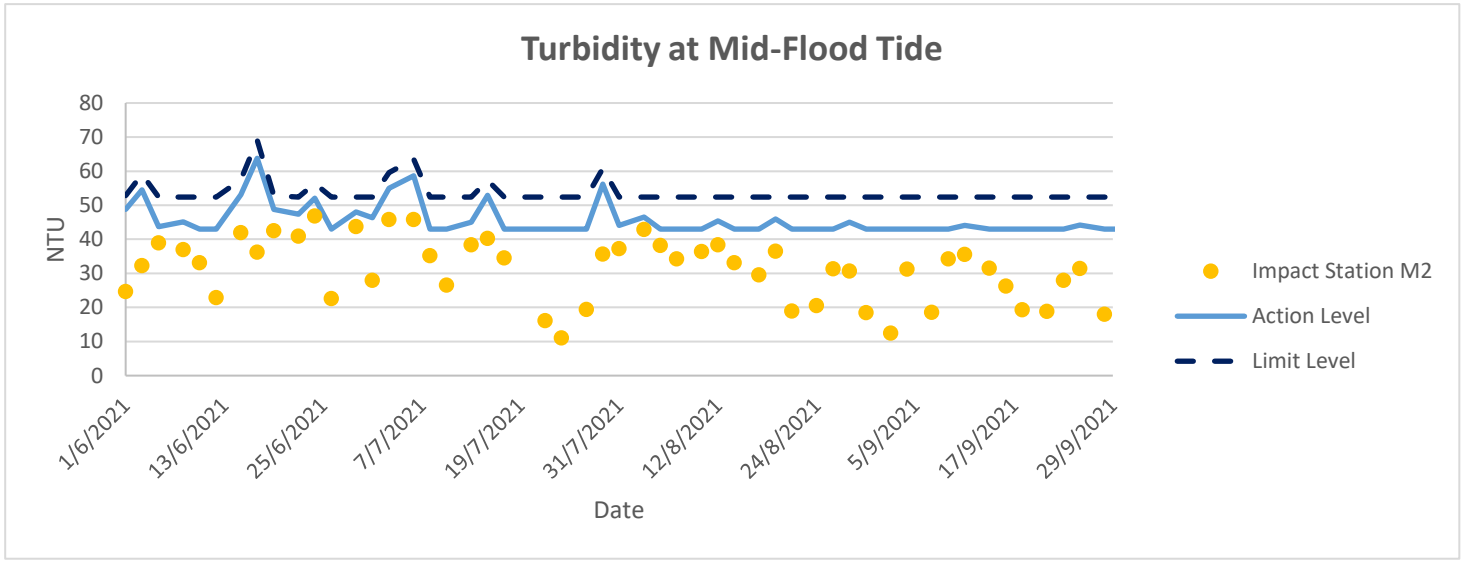
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M1


Turbidity at Mid-Flood Tide
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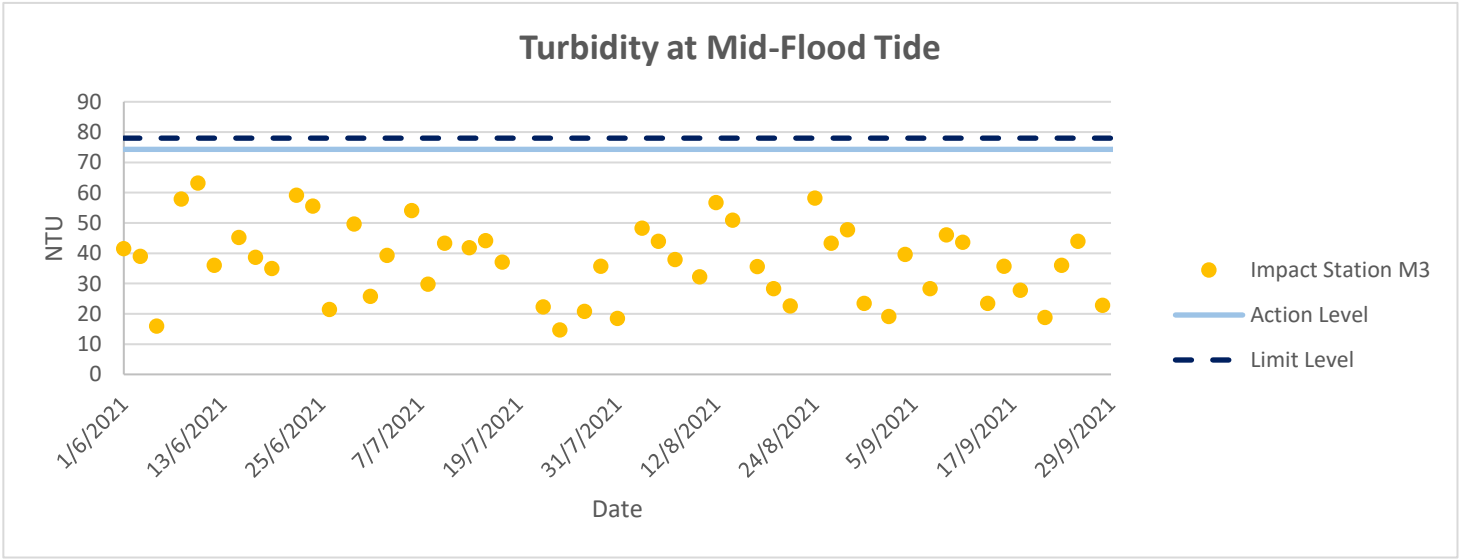
70
60
50
40
30
20
10
0
NTU
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M2
Action Level
Limit Level


Turbidity at Mid-Flood Tide
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80
70
60
50
40
30
20
10
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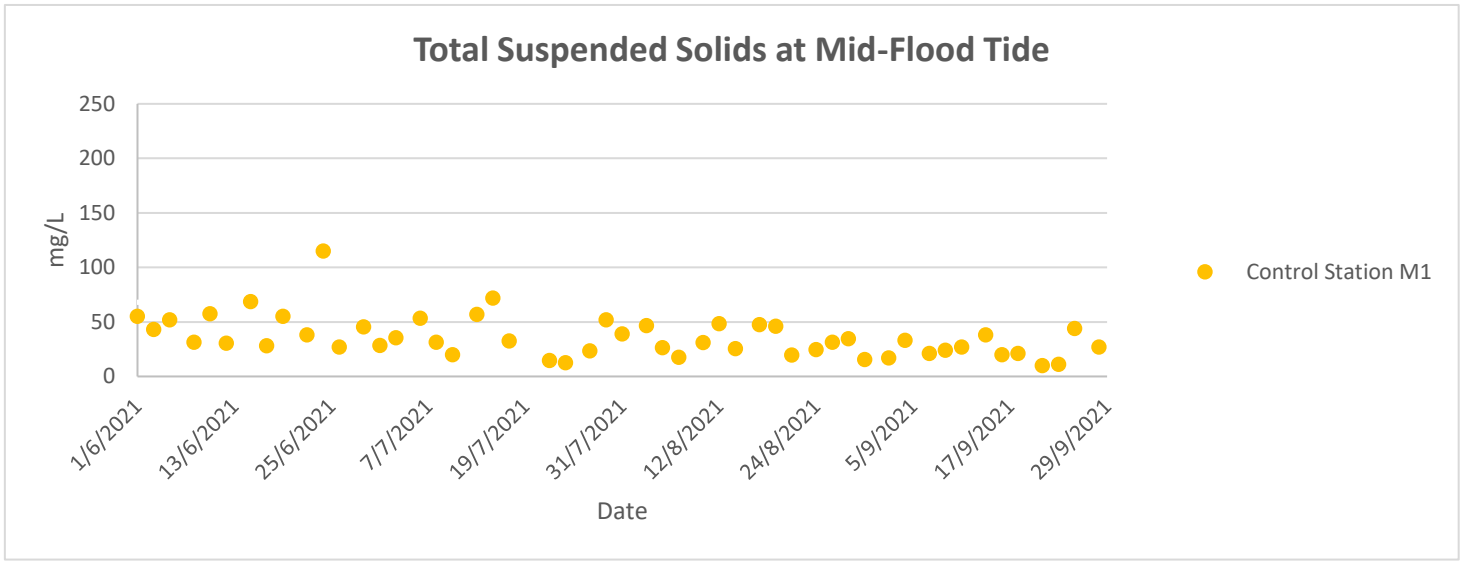
NTU
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M3
Action Level
Limit Level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200
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mg/L
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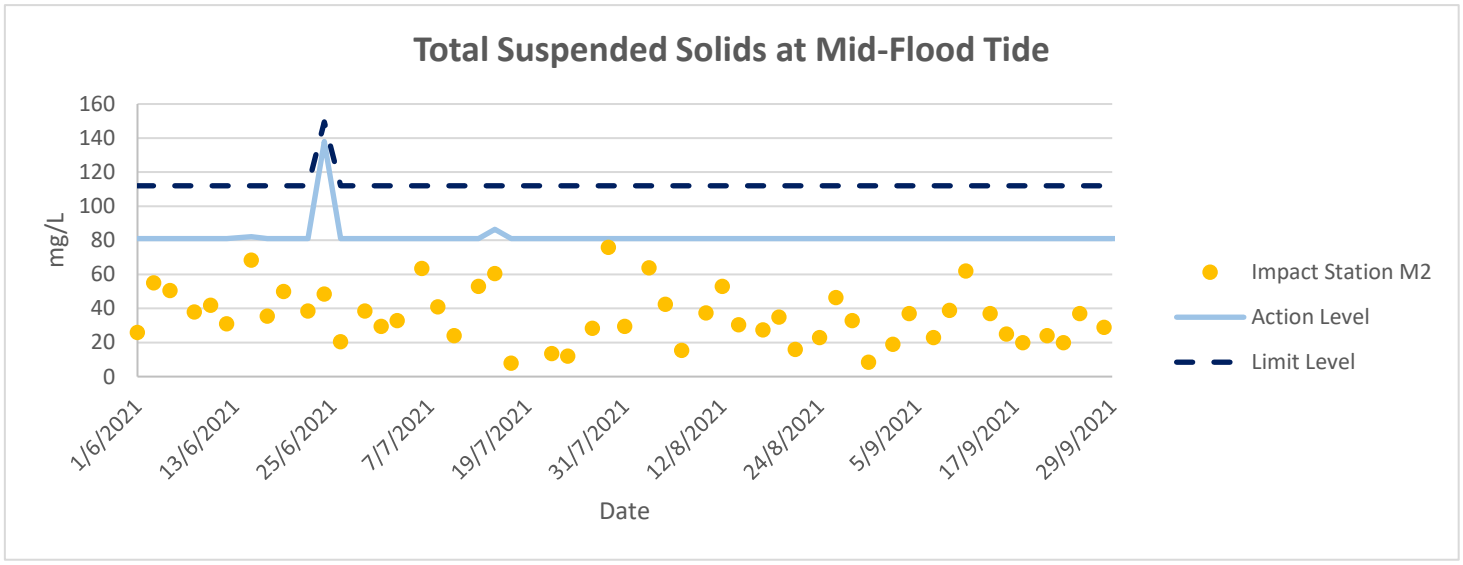
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M1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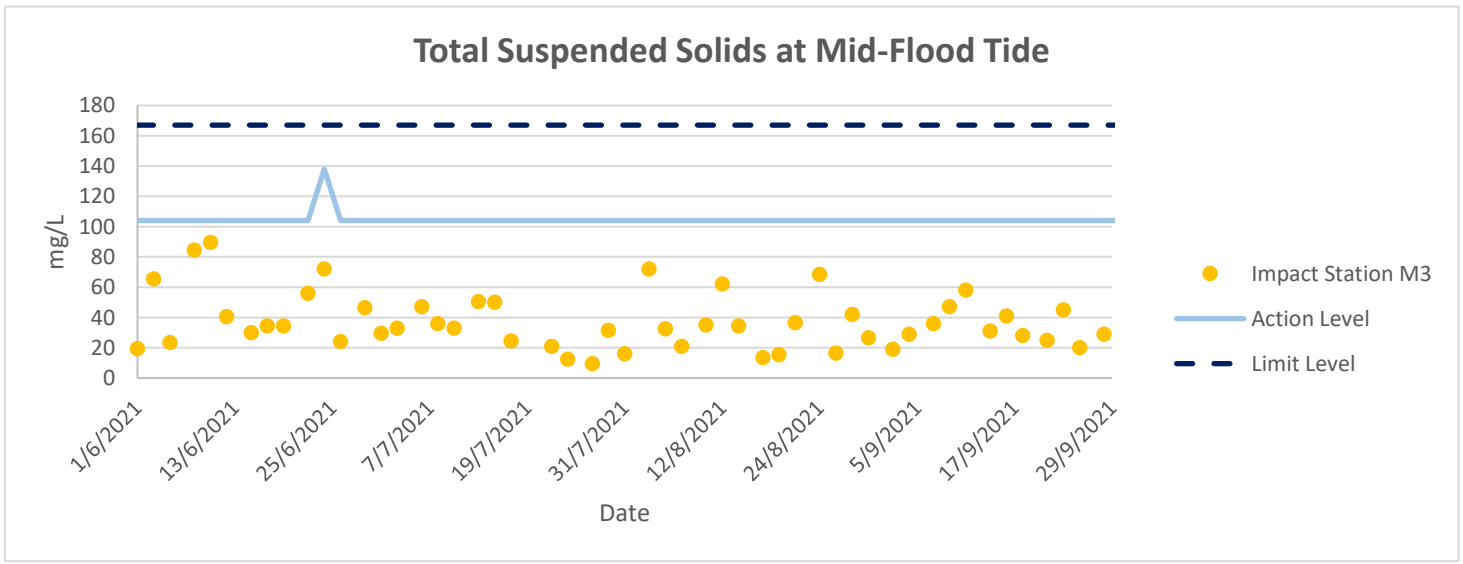
140
120
100
80
60
40
20
0
mg/L
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M2
Action Level
Limit Level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160
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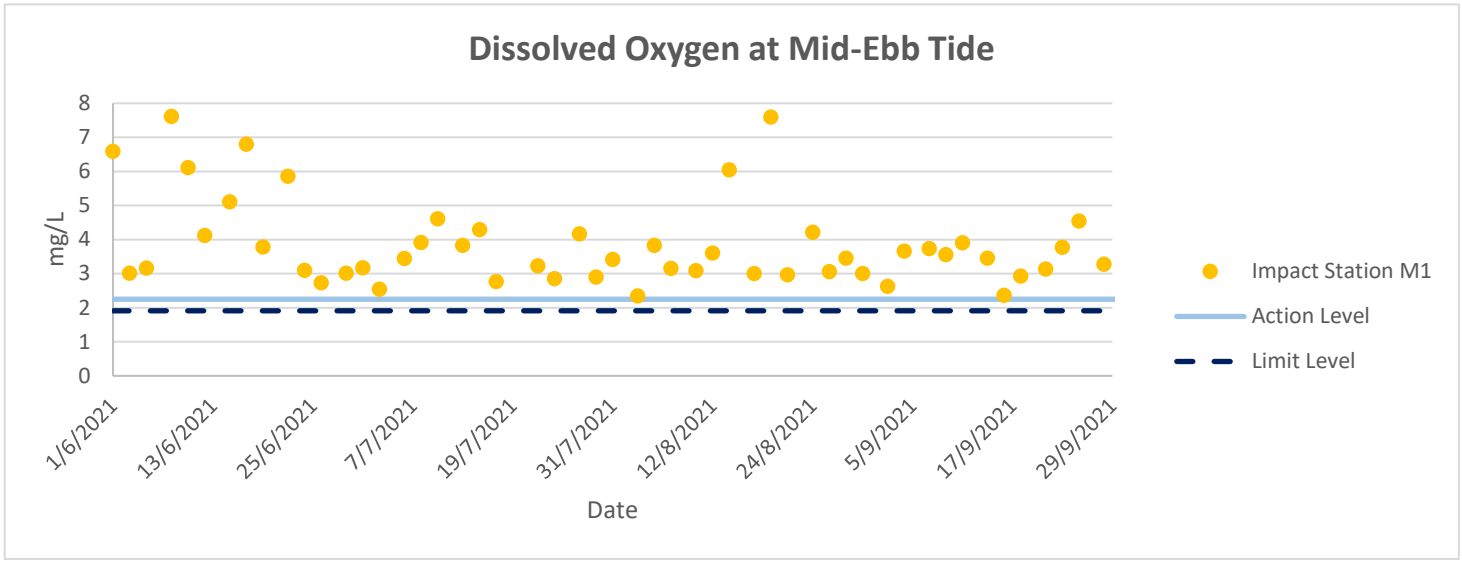
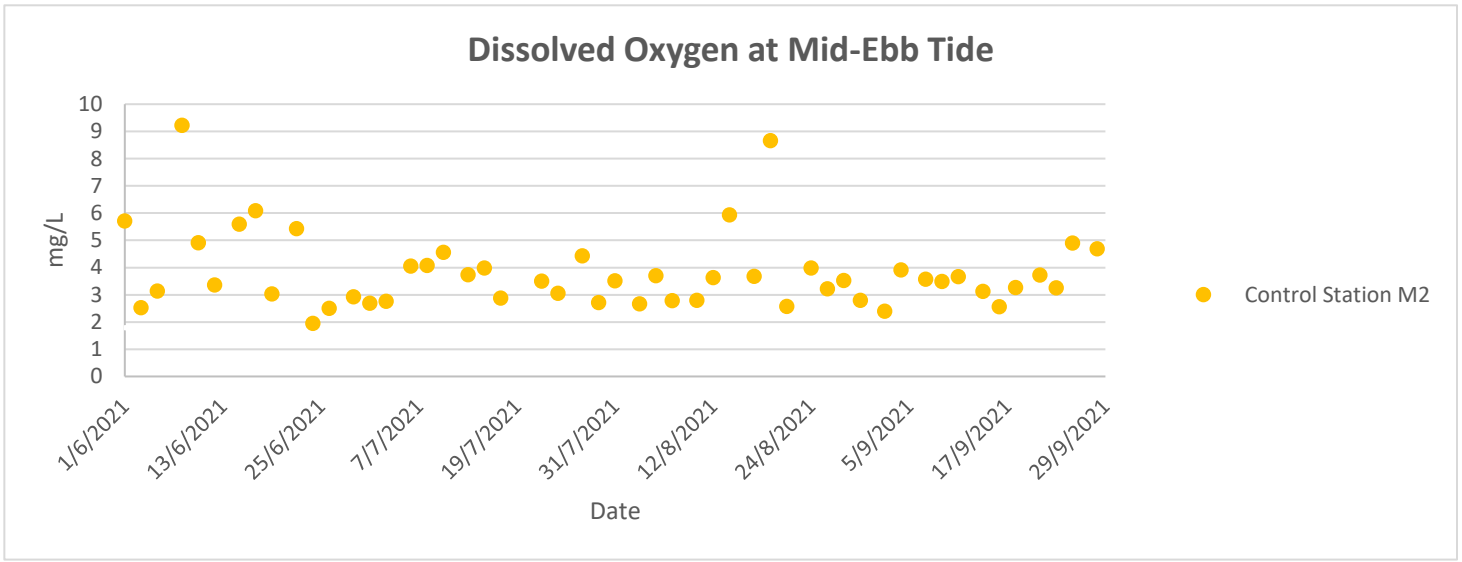
120
100
80
60
40
20
0
mg/L
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M3
Action Level
Limit Level


Dissolved Oxygen at Mid-Ebb Tide
mg/L
0
1
2
3
4
5
6
7
8
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M1
Action Level
Limit Level


Dissolved Oxygen at Mid-Ebb Tide
mg/L
0
1
2
3
4
5
6
7
8
9
10
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
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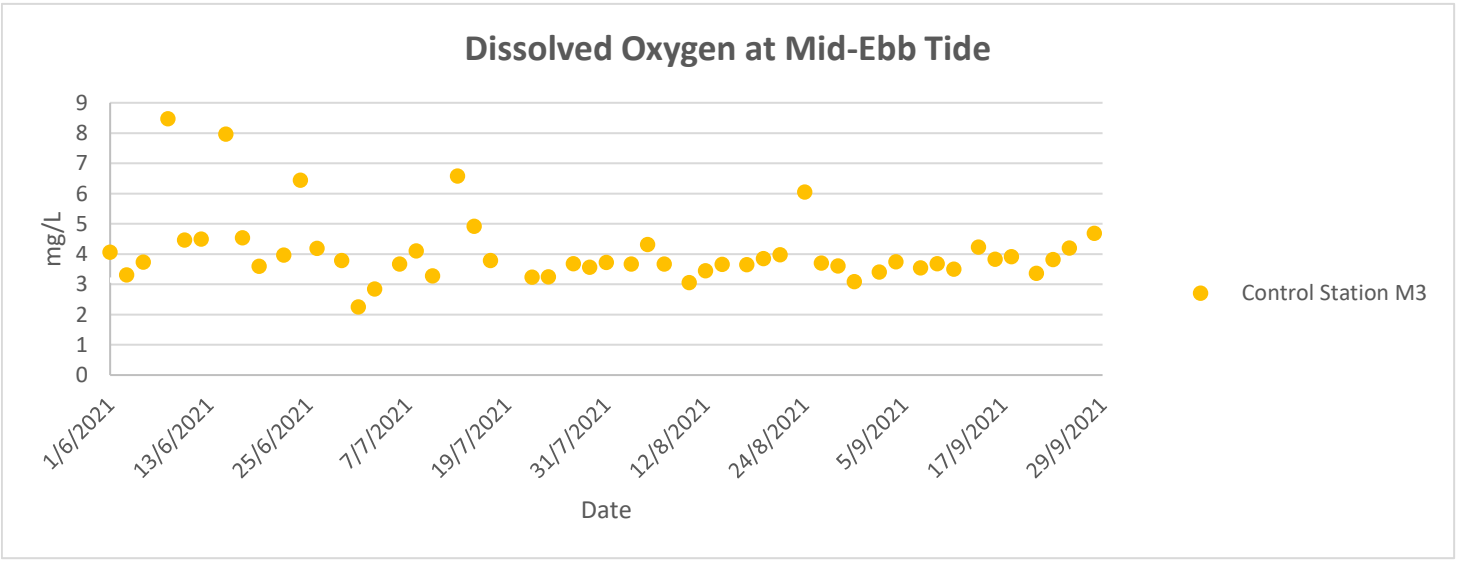
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M2


Dissolved Oxygen at Mid-Ebb Tide
mg/L
0
1
2
3
4
5
6
7
8
9
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
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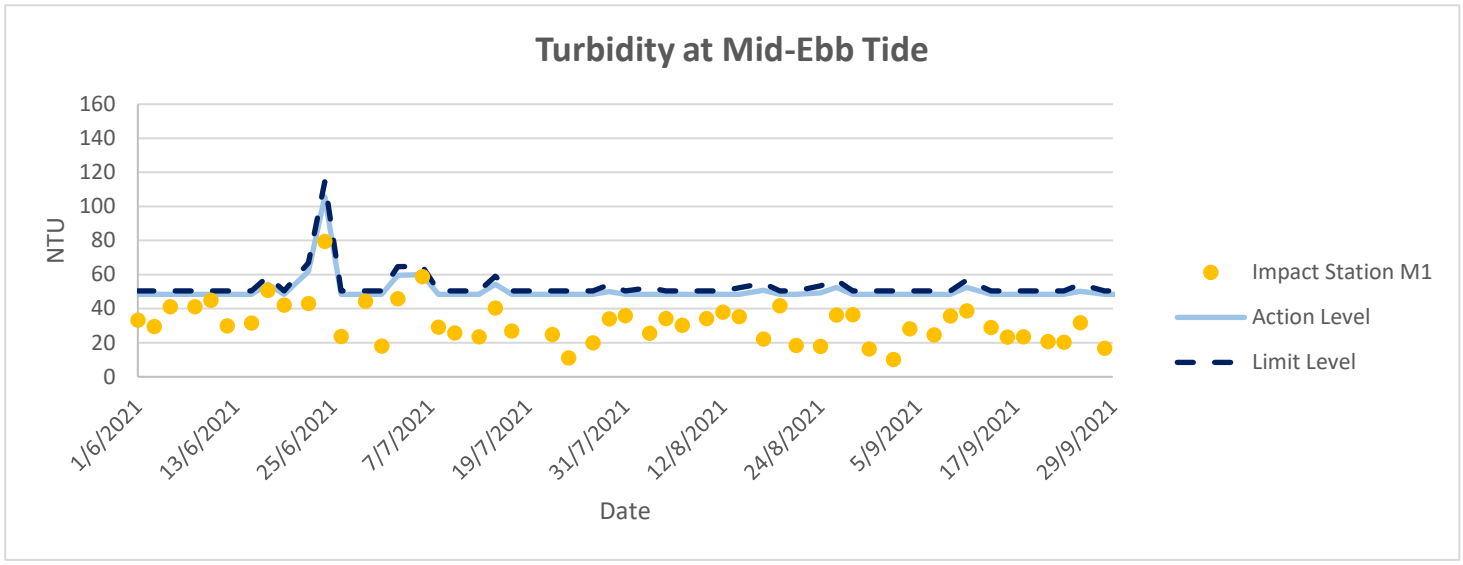
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M3


Turbidity at Mid-Ebb Tide
NTU
160
140
120
100
80
60
40
20
0
1/6/2021
13/6/2021
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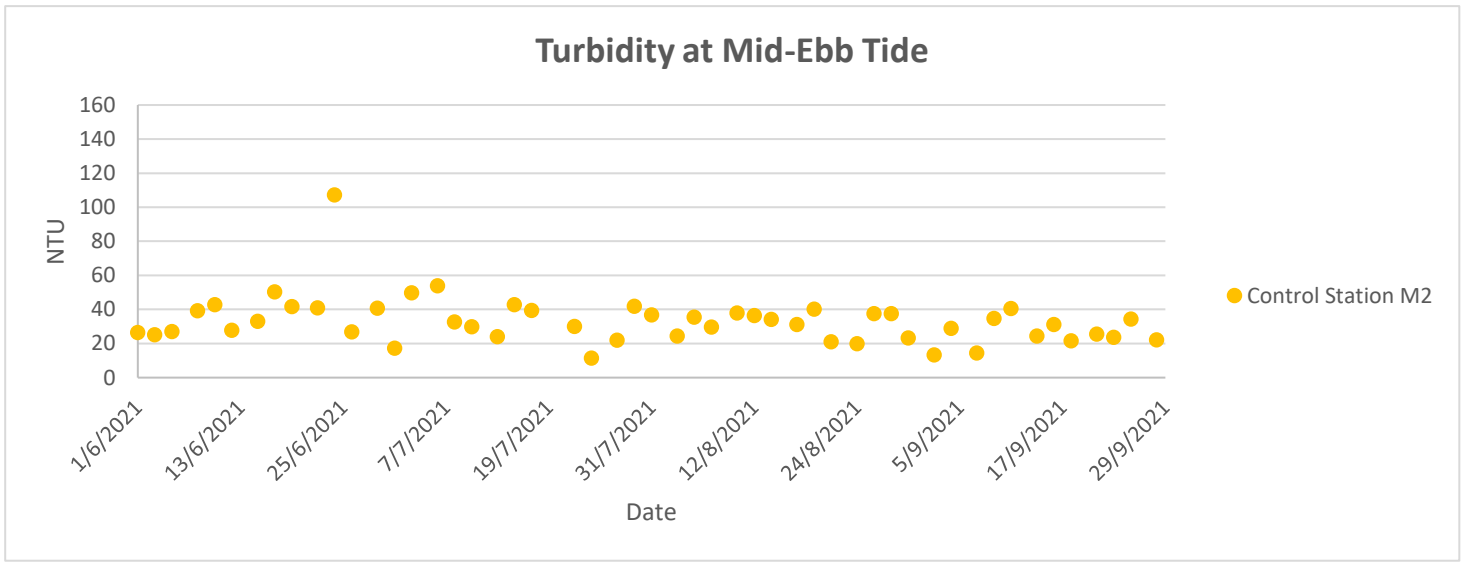
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M1
Action Level
Limit Level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NTU
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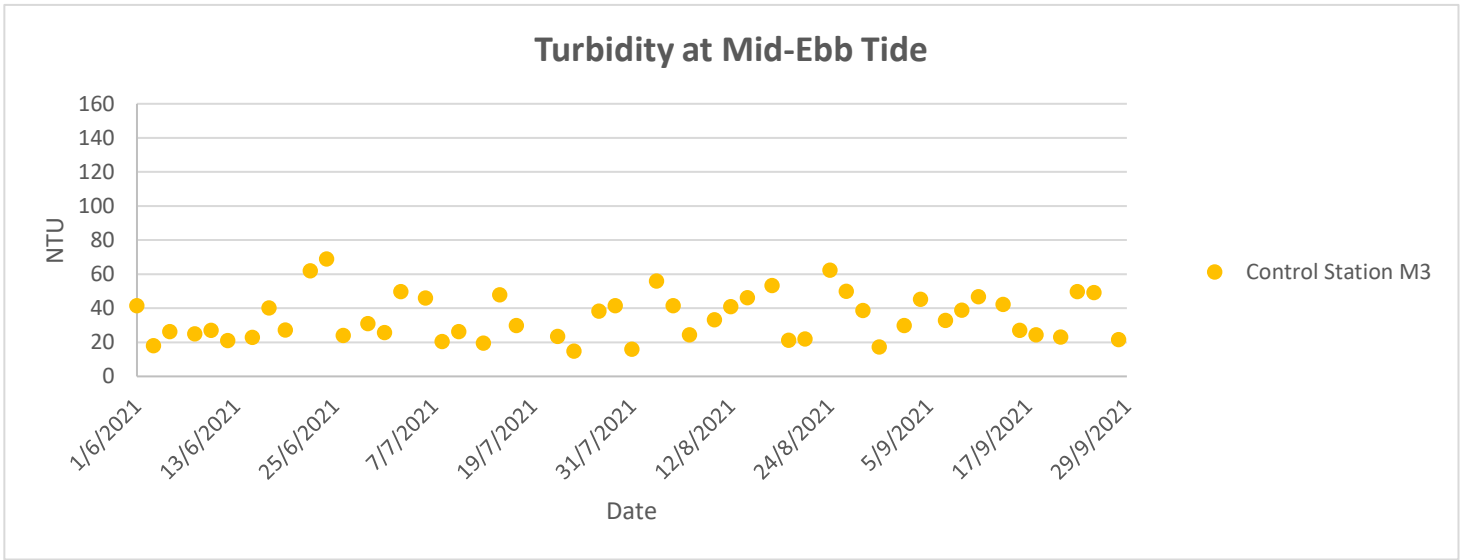
140
120
100
80
60
40
20
0
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M2


Turbidity at Mid-Ebb Tide
NTU
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140
120
100
80
60
40
20
0
1/6/2021
13/6/2021
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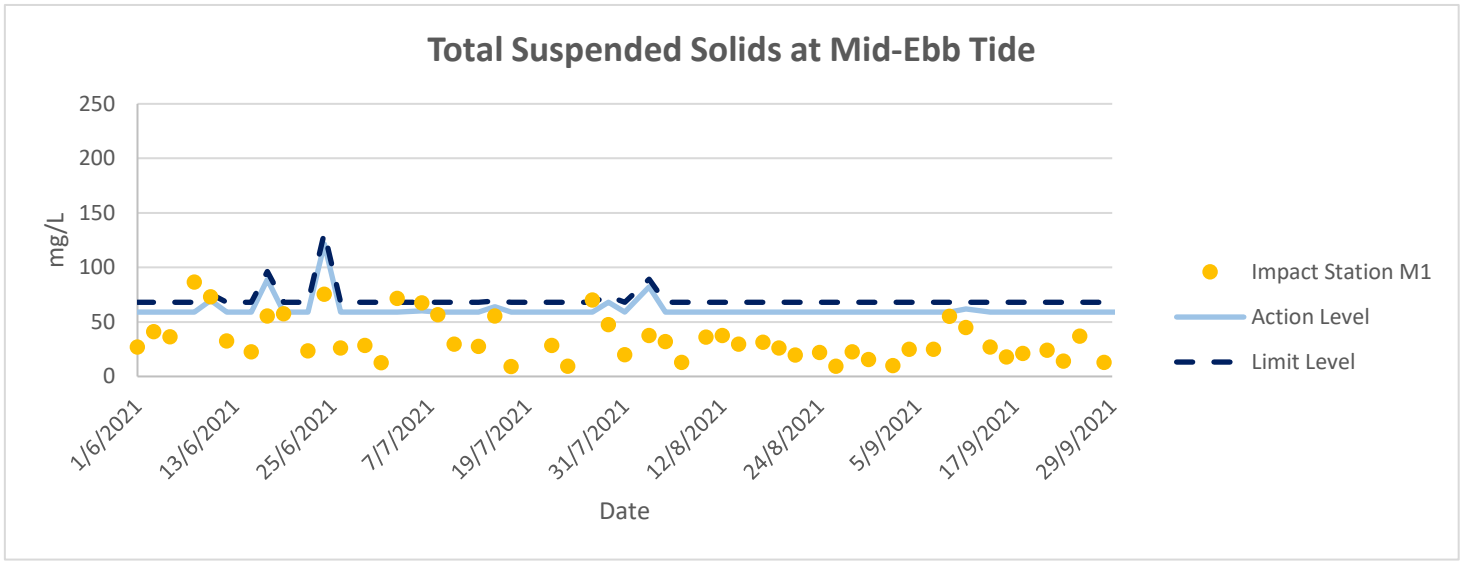
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M3


Total Suspended Solids at Mid-Ebb Tide
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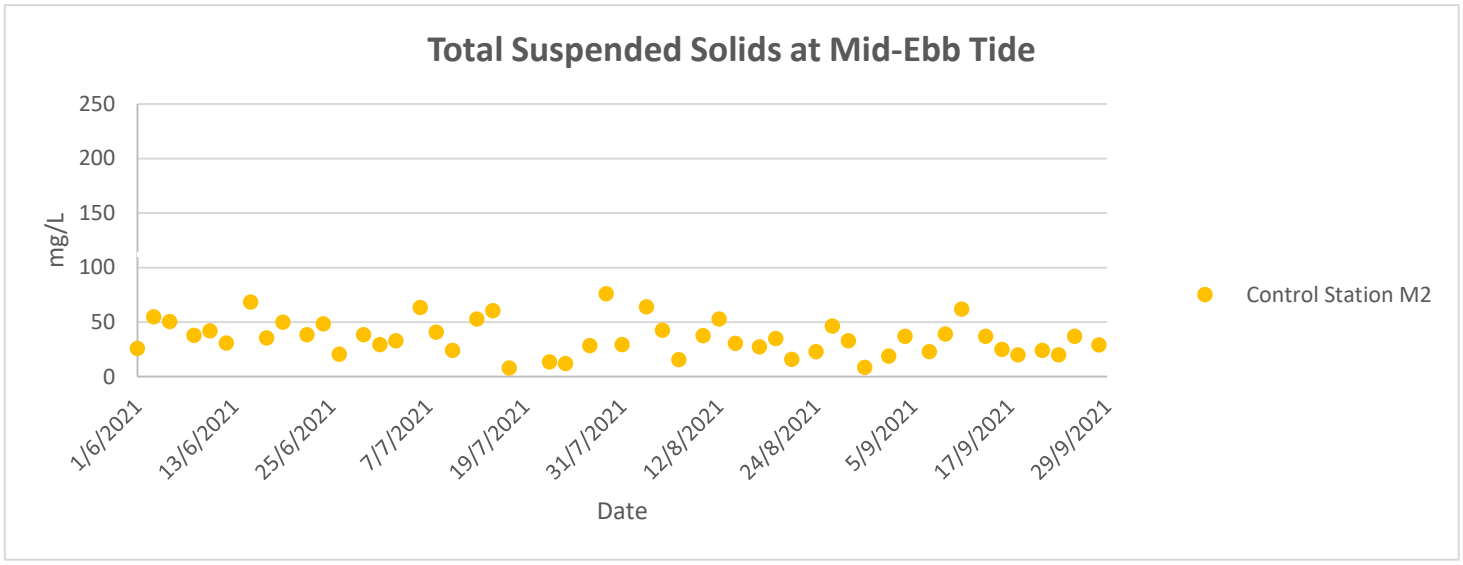
200
150
100
50
0
mg/L
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Impact Station M1
Action Level
Limit Level


Total Suspended Solids at Mid-Ebb Tide
250
200
150
100
50
0
mg/L
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
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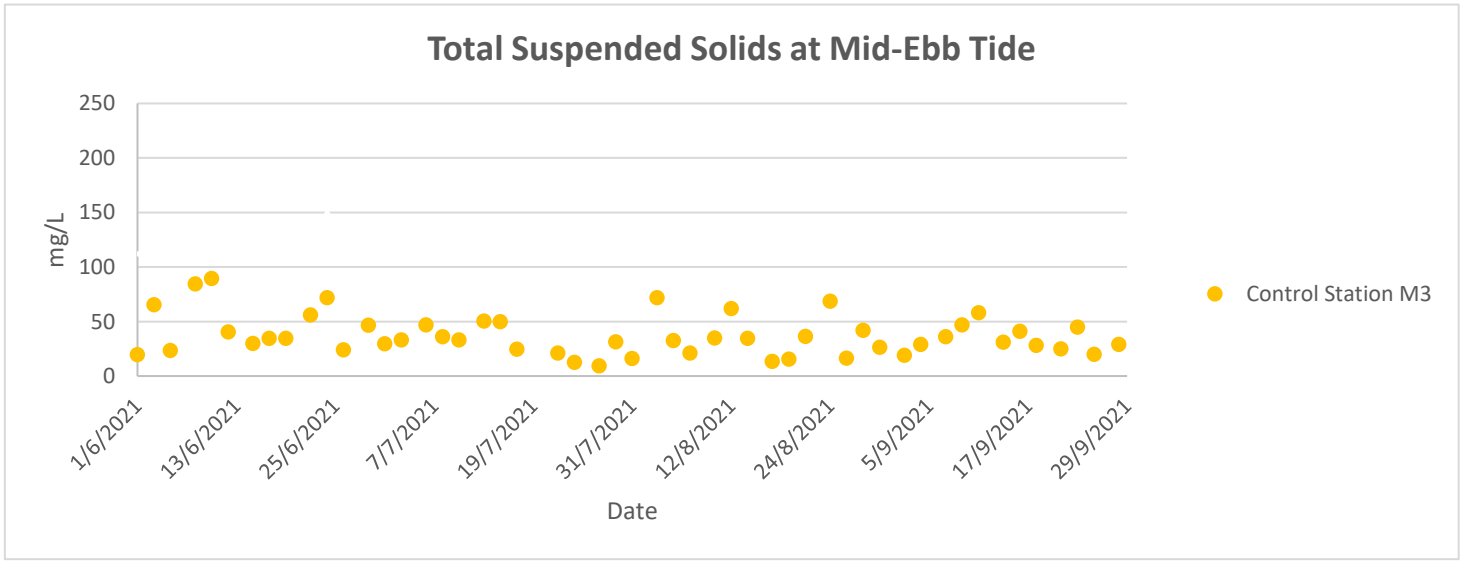
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M2


Total Suspended Solids at Mid-Ebb Tide
250
200
150
100
50
0
mg/L
1/6/2021
13/6/2021
25/6/2021
7/7/2021
19/7/2021
31/7/2021
12/8/2021
24/8/2021
5/9/2021
17/9/2021
29/9/2021
Date
Control Station M3

Ecology Monitoring Results

Appendix F.1 Supplemental Discussion

F.1.1 Active Ardeid Night Roost

For the final night roost, a total of nine Chinese Pond Heron individuals utilized the inside portions of the understory to canopy layers of the roosting substrate *Sonneratia apetala* and *S. caseolaris* at ANR1. The night roost (ANR2) located at the northeast of the Project boundary, as noted to be active last April 2021, was not used by the ardeids during the current monitoring period, similar with the May to August 2021 results. This was, however, not caused by the Project's construction activities as the recorded noise level ((42.4 dB(A)) near ANR2 was lower with respect to the action limit level of 65.5 dB(A) which more likely to cause behavioural responses of some kind by the ardeids (Wright et al. 2010). Furthermore, ardeid night roosts are known for their highly changeable locations and roosting population. These roosting locations can change in temporal basis and even change from day to day on a small scale. In Hong Kong, fluctuation of roosting population, abandonment or change in locations of roosting site without major nearby environmental change has been observed in roosts and locations (HKJC, 2005; Lee et al., 2004; MTRC, 2010).

F.1.2 Ecological Monitoring of Birds

F.1.2.1 Abundance

F.1.2.1.1 All Avifauna Species

Point Count

Among the different species recorded, the Black-winged Stilt *Himantopus himantopus* was noted with the highest abundance (13 ind.), followed by the Chinese Pond Heron *Ardeola bacchus* and Little Egret *Egretta garzetta* both with 9 ind. each. On the other hand, all of the species which had the least abundance (1 ind.) during the reporting month include the Blue-winged Pitta *Pitta moluccensis,* Eastern Cattle Egret *Bubulcus coromandus,* Oriental Magpie Robin *Copsychus saularis*, Black-collared Starling *Gracupica nigricollis* and Yellow-bellied Prinia *Prinia flaviventris*.

Transect Walk

Among the different species recorded, the Little Egret *Egretta garzetta* was noted with the highest abundance (15 ind.), followed by Common Greenshank *Tringa nebularia* (12 ind.) and Black-winged Stilt *Himantopus himantopus* (10 ind.). On the other hand, the Oriental Magpie Robin *Copsychus saularis* and White-breasted Waterhen *Amaurornis phoenicurus* had the lowest abundance (1 ind. each).

F.1.2.1.2 Avifauna Species of Conservation Importance

Point Count

Among the different species recorded, the Black-winged Stilt *Himantopus himantopus* was recorded with the highest abundance (13 ind.), followed by both the Chinese Pond Heron *Ardeola bacchus* and Little Egret *Egretta garzetta* both with 9 ind. each. On the other hand, the four species such as the Common Greenshank *Tringa nebularia,* Great Egret *Ardea alba, Grey Heron Ardea cinerea* and *Pied avocet Recurvirostra avosetta* had the lowest abundance (4 ind. each).

Transect Walk

Among the different species recorded, the Little Egret *Egretta garzetta* was noted with the highest abundance (15 ind.), followed by the Common Greenshank *Tringa nebularia* (12 ind.) and Black-winged Stilt *Himantopus himantopus* (10). On the other hand, species including the Common Redshank *Tringa totanus* and Black Kite *Milvus migrans* had the lowest recorded abundance (2 ind. each).

Appendix F.2 Ecological Bird Monitoring Results (15 and 20 September 2021)

Date (dd/mm/yyyy)	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)	Species of Conservation Importance	Wetland Dependent
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Crested Myna	*Acridotheres cristatellus*	4	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Great Egret	*Ardea alba*	9	Pond-FLW	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Grey Heron	*Ardea cinerea*	3	Pond-FLW	Common	WV	PRC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Chinese Pond Heron	*Ardeola bacchus*	1	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Eastern Cattle Egret	*Bubulcus coromandus*	2	Pond-FLW	Common	R.PM	-	-	-	LC	LC	N	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Whiskered Tern	*Chlidonias hybrida*	3	Pond-FLW	Uncommon	PM	-	-	-	LC	LC	N	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Black Drongo	*Dicrurus macrocercus*	2	Plantation-FLW	Common	SV	-	-		LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Little Egret	*Egretta garzetta*	9	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Black-collared Starling	*Gracupica nigricollis*	2	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Black Kite	*Milvus migrans*	2	Pond-FLW	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	White Wagtail	*Motacilla alba*	5	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Eurasian Tree Sparrow	*Passer montanus*	7	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Transect	FLW	Spotted Dove	*Spilopelia chinensis*	8	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW1	Chinese Pond Heron	*Ardeola bacchus*	2	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW1	Little Egret	*Egretta garzetta*	2	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW1	Scaly-breasted Munia	*Lonchura punctulata*	3	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW1	Spotted Dove	*Spilopelia chinensis*	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Grey Heron	*Ardea cinerea*	1	Pond-FLW	Common	WV	PRC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Black Drongo	*Dicrurus macrocercus*	1	Pond-FLW	Common	SV	-	-		LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Little Egret	*Egretta garzetta*	1	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Plain Prinia	*Prinia inornata*	1	Reedbed	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Spotted Dove	*Spilopelia chinensis*	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW3	White Wagtail	*Motacilla alba*	1	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N

15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW3	Spotted Dove	*Spilopelia chinensis*	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW4	Eastern Cattle Egret	*Bubulcus coromandus*	1	Pond-FLW	Common	R.PM	-	-	-	LC	LC	N	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW4	Pied Kingfisher	*Ceryle rudis*	2	Pond-FLW	Uncommon	R	-	-	-	LC	LC	N	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW4	Spotted Dove	*Spilopelia chinensis*	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW5	White-breasted Waterhen	*Amaurornis phoenicurus*	1	Pond-FLW	Common	R	-	-	-	LC	LC	N	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW5	Whiskered Tern	*Chlidonias hybrida*	2	Pond-FLW	Uncommon	PM	-	-	-	LC	LC	N	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW5	White Wagtail	*Motacilla alba*	1	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW5	Eurasian Tree Sparrow	*Passer montanus*	3	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Great Egret	*Ardea alba*	2	Pond-FLW	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Grey Heron	*Ardea cinerea*	1	Pond-FLW	Common	WV	PRC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Black Drongo	*Dicrurus macrocercus*	1	Plantation-FLW	Common	SV	-	-		LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Little Egret	*Egretta garzetta*	2	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Black-collared Starling	*Gracupica nigricollis*	1	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	White Wagtail	*Motacilla alba*	1	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Blue-winged Pitta	*Pitta moluccensis*	1	Pond-FLW	Vagrant	PM	-	-	-	DD	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Plain Prinia	*Prinia inornata*	1	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Spotted Dove	*Spilopelia chinensis*	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Crested Myna	*Acridotheres cristatellus*	4	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Great Egret	*Ardea alba*	2	Pond-FLW	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Chinese Pond Heron	*Ardeola bacchus*	4	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Velvet-fronted Nuthatch	*Sitta frontalis*	2	Plantation-FLW	Common	R	-	-	-	DD	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Spotted Dove	*Spilopelia chinensis*	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Transect	NSW	Chinese Pond Heron	*Ardeola bacchus*	3	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

15/09/2021	Daytime	Wet Season	NSW	Transect	NSW	Little Egret	*Egretta garzetta*	4	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Transect	NSW	Black-winged Stilt	*Himantopus himantopus*	6	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Transect	NSW	Common Greenshank	*Tringa nebularia*	4	Modified Watercourse	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Transect	NSW	Japanese White-eye	*Zosterops japonicus*	3	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Transect	NSW	Barn Swallow	*Hirundo rustica*	3	Modified Watercourse	Abundant	PM,SV	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Transect	NSW	Plain Prinia	*Prinia inornata*	2	Plantation-NSW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Transect	NSW	Oriental Magpie Robin	*Copsychus saularis*	1	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Crested Myna	*Acridotheres cristatellus*	2	Pond-NSW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Chinese Pond Heron	*Ardeola bacchus*	1	Pond-NSW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	NSW1	White-rumped Munia	*Lonchura striata*	2	Pond-NSW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Eurasian Tree Sparrow	*Passer montanus*	4	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Yellow-bellied Prinia	*Prinia flaviventris*	1	Pond-NSW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Plain Prinia	*Prinia inornata*	2	Pond-NSW	Common	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Spotted Dove	*Spilopelia chinensis*	1	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Chinese Pond Heron	*Ardeola bacchus*	2	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Whiskered Tern	*Chlidonias hybrida*	2	Modified Watercourse	Uncommon	PM	-	-	-	LC	LC	N	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Little Egret	*Egretta garzetta*	2	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Black-winged Stilt	*Himantopus himantopus*	2	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Common Greenshank	*Tringa nebularia*	4	Modified Watercourse	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Pied Avocet	*Recurvirostra avosetta*	4	Modified Watercourse	Abundant	WV	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Little Egret	*Egretta garzetta*	2	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Masked Laughingthrush	*Garrulax perspicillatus*	3	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Black-winged Stilt	*Himantopus himantopus*	1	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	White-breasted Waterhen	*Amaurornis phoenicurus*	1	Modified Watercourse	Common	R	-	-	-	LC	LC	N	Y

15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Grey Heron	*Ardea cinerea*	2	Modified Watercourse	Common	WV	PRC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Oriental Magpie Robin	*Copsychus saularis*	1	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	White-breasted Waterhen	*Amaurornis phoenicurus*	1	Modified Watercourse	Common	R	-	-	-	LC	LC	N	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Chinese Pond Heron	*Ardeola bacchus*	2	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Little Egret	*Egretta garzetta*	2	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Black-winged Stilt	*Himantopus himantopus*	4	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	White Wagtail	*Motacilla alba*	1	Modified Watercourse	Common	PM,WV	-	-	-	LC	LC	N	N
15/09/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Common Greenshank	*Tringa nebularia*	8	Modified Watercourse	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Common Redshank	*Tringa totanus*	2	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
15/09/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Black-winged Stilt	*Himantopus himantopus*	10	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
20/09/2021	Night time	Wet Season	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

-: no observed individual

Appendix F.3.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (15 and 20 September 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P)2
Acridotheres cristatellus	6	0.060606	-2.80336	-0.1699	0.476293
Amaurornis phoenicurus	2	0.020202	-3.90197	-0.07883	0.307584
Ardea alba	4	0.040404	-3.20883	-0.12965	0.416023
Ardea cinerea	4	0.040404	-3.20883	-0.12965	0.416023
Ardeola bacchus	9	0.090909	-2.3979	-0.21799	0.522718
Bubulcus coromandus	1	0.010101	-4.59512	-0.04642	0.213284
Ceryle rudis	2	0.020202	-3.90197	-0.07883	0.307584
Chlidonias hybrida	4	0.040404	-3.20883	-0.12965	0.416023
Copsychus saularis	1	0.010101	-4.59512	-0.04642	0.213284
Dicrurus macrocercus	2	0.020202	-3.90197	-0.07883	0.307584
Egretta garzetta	9	0.090909	-2.3979	-0.21799	0.522718
Garrulax perspicillatus	3	0.030303	-3.49651	-0.10595	0.370472
Gracupica nigricollis	1	0.010101	-4.59512	-0.04642	0.213284
Himantopus himantopus	13	0.131313	-2.03017	-0.26659	0.541219
Lonchura punctulata	3	0.030303	-3.49651	-0.10595	0.370472
Lonchura striata	2	0.020202	-3.90197	-0.07883	0.307584
Motacilla alba	3	0.030303	-3.49651	-0.10595	0.370472
Passer montanus	7	0.070707	-2.64921	-0.18732	0.496244
Pitta moluccensis	1	0.010101	-4.59512	-0.04642	0.213284
Prinia flaviventris	1	0.010101	-4.59512	-0.04642	0.213284
Prinia inornata	4	0.040404	-3.20883	-0.12965	0.416023
Recurvirostra avosetta	4	0.040404	-3.20883	-0.12965	0.416023
Sitta frontalis	2	0.020202	-3.90197	-0.07883	0.307584
Spilopelia chinensis	7	0.070707	-2.64921	-0.18732	0.496244
Tringa nebularia	4	0.040404	-3.20883	-0.12965	0.416023
Total	99	1	-87.1557	-2.96908	9.267327
Richness	25				
SS	9.267327				
SQ	8.815449				
H	2.96908				
S^2_H	0.005789				

Appendix F.3.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (15 and 20 September 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	$P*Ln(P)^2$
Ardea alba	4	0.085106	-2.46385	-0.20969	0.516644
Ardea cinerea	4	0.085106	-2.46385	-0.20969	0.516644
Ardeola bacchus	9	0.191489	-1.65292	-0.31652	0.523179
Egretta garzetta	9	0.191489	-1.65292	-0.31652	0.523179
Himantopus himantopus	13	0.276596	-1.2852	-0.35548	0.456863
Recurvirostra avosetta	4	0.085106	-2.46385	-0.20969	0.516644
Tringa nebularia	4	0.085106	-2.46385	-0.20969	0.516644
Total	47	1	-14.4465	-1.82727	3.569798
Richness	7				
SS	3.569798				
SQ	3.338928				

H	1.82727				
S^2_H	0.00627				

Appendix F.3.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (15 and 20 September 2021)

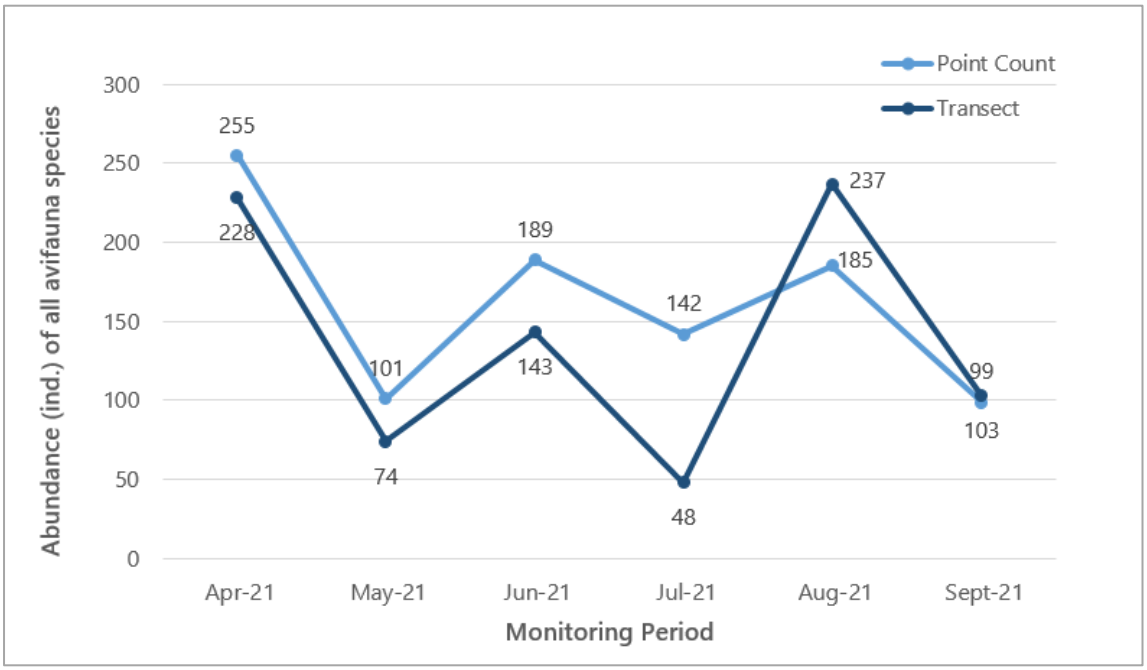
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P)^2
Acridotheres cristatellus	4	0.038835	-3.24843	-0.12615	0.409799
Amaurornis phoenicurus	1	0.009709	-4.63473	-0.045	0.208551
Ardea alba	9	0.087379	-2.4375	-0.21299	0.519154
Ardea cinerea	3	0.029126	-3.53612	-0.10299	0.364198
Ardeola bacchus	6	0.058252	-2.84297	-0.16561	0.470824
Bubulcus coromandus	2	0.019417	-3.94158	-0.07654	0.301671
Chlidonias hybrida	3	0.029126	-3.53612	-0.10299	0.364198
Copsychus saularis	1	0.009709	-4.63473	-0.045	0.208551
Dicrurus macrocercus	2	0.019417	-3.94158	-0.07654	0.301671
Egretta garzetta	15	0.145631	-1.92668	-0.28058	0.540596
Gracupica nigricollis	2	0.019417	-3.94158	-0.07654	0.301671
Himantopus himantopus	10	0.097087	-2.33214	-0.22642	0.528048
Hirundo rustica	3	0.029126	-3.53612	-0.10299	0.364198
Milvus migrans	2	0.019417	-3.94158	-0.07654	0.301671
Motacilla alba	6	0.058252	-2.84297	-0.16561	0.470824
Passer montanus	7	0.067961	-2.68882	-0.18274	0.491342
Prinia inornata	2	0.019417	-3.94158	-0.07654	0.301671
Spilopelia chinensis	8	0.07767	-2.55529	-0.19847	0.507145
Tringa nebularia	12	0.116505	-2.14982	-0.25046	0.538455
Tringa totanus	2	0.019417	-3.94158	-0.07654	0.301671
Zosterops japonicus	3	0.029126	-3.53612	-0.10299	0.364198
Total	103	1	-70.088	-2.77022	8.160106
Richness	21				
SS	8.160106				
SQ	7.674098				
H	2.77022				
S^2_H	0.005661				

Appendix F.3.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (15 and 20 September 2021)

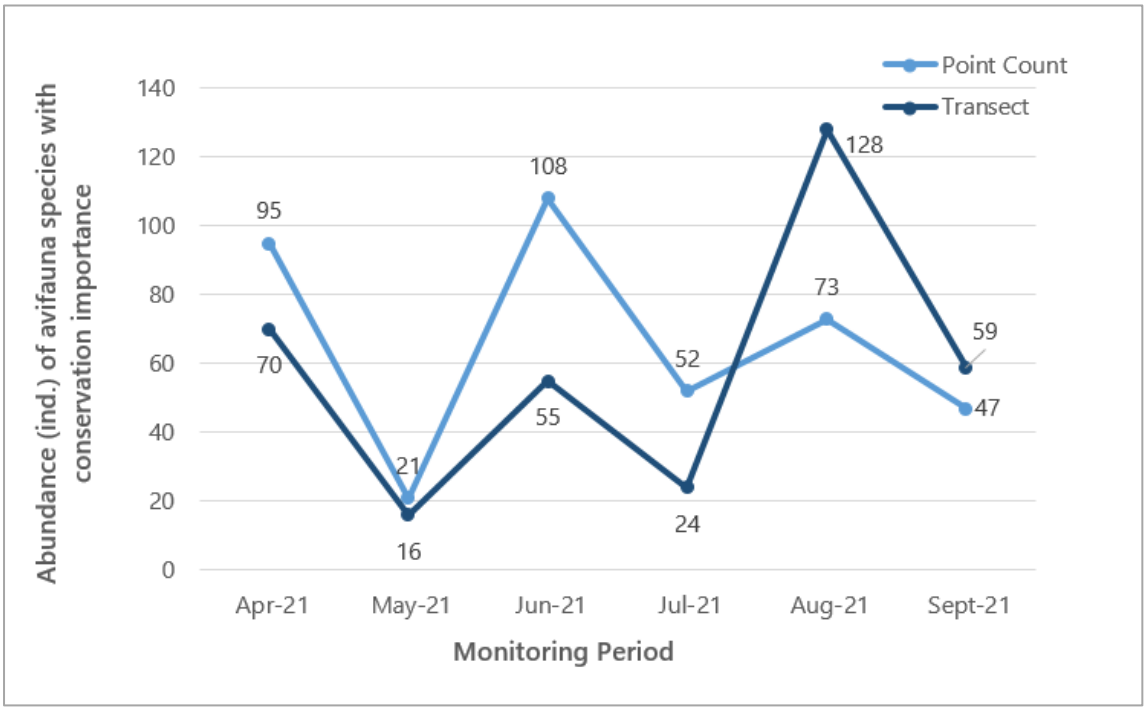
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P)^2
Ardea alba	9	0.152542	-1.88031	-0.28683	0.539325
Ardea cinerea	3	0.050847	-2.97893	-0.15147	0.45122
Ardeola bacchus	6	0.101695	-2.28578	-0.23245	0.531334
Egretta garzetta	15	0.254237	-1.36949	-0.34817	0.476821
Himantopus himantopus	10	0.169492	-1.77495	-0.30084	0.533976
Milvus migrans	2	0.033898	-3.38439	-0.11473	0.388274
Tringa nebularia	12	0.20339	-1.59263	-0.32392	0.515893
Tringa totanus	2	0.033898	-3.38439	-0.11473	0.388274
Total	59	1	-18.6509	-1.87314	3.825117
Richness	8				

SS	3.825117				
SQ	3.508651				
H	1.87314				
S^2_H	0.006369				

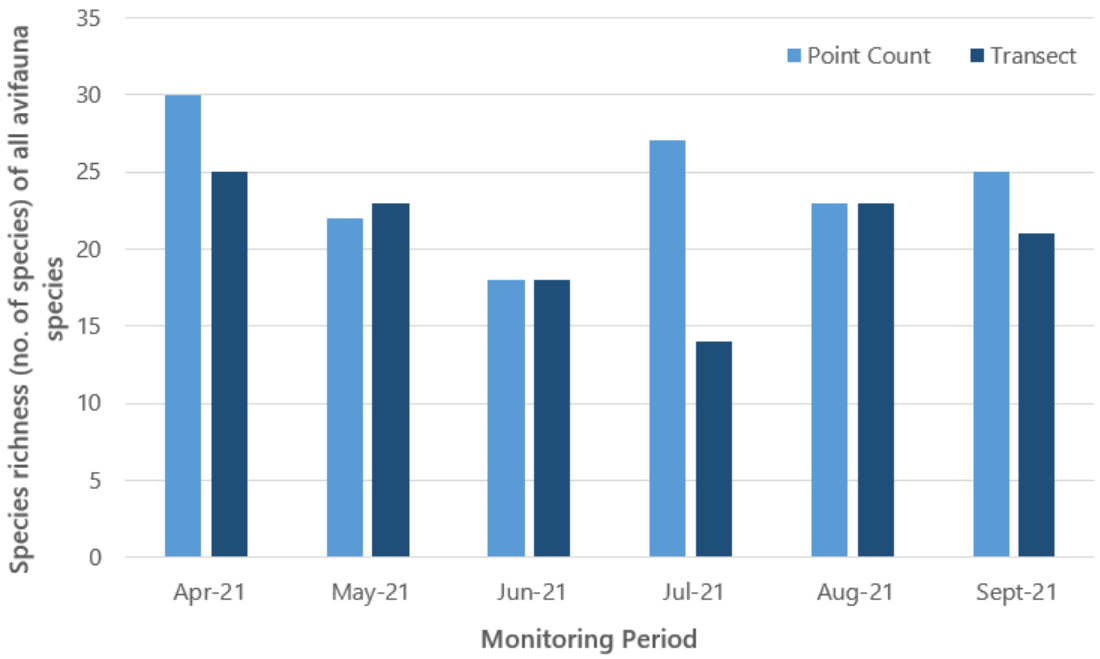
Appendix F.4.1 Abundance of all avifauna species throughout the monitoring period



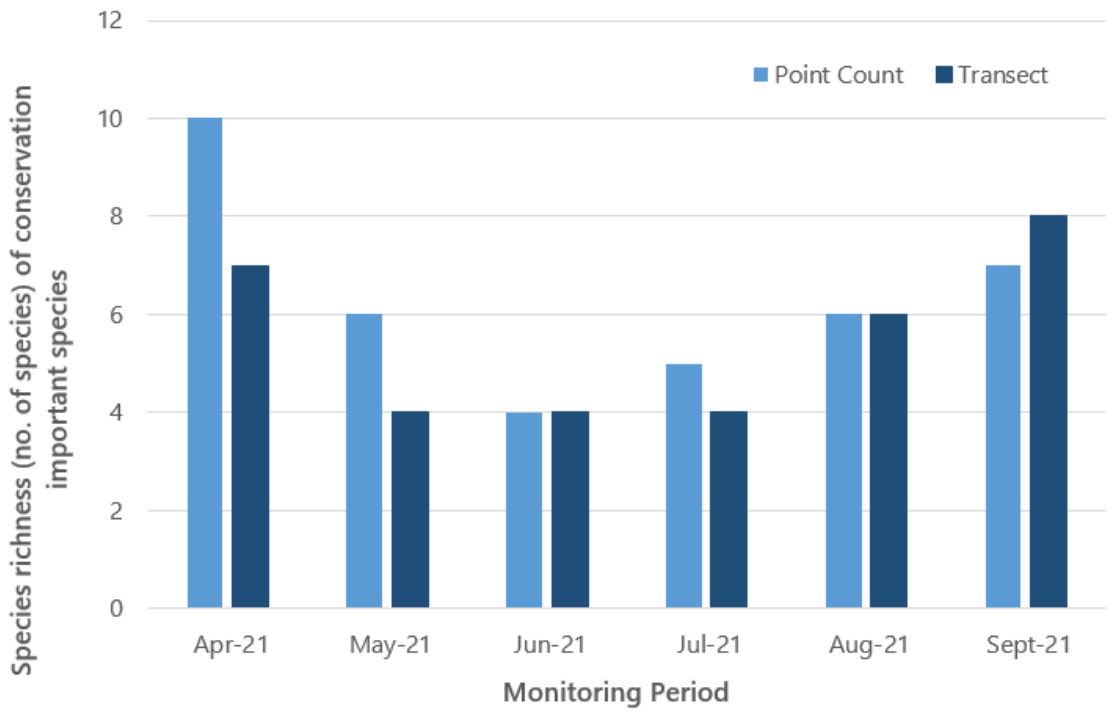
Appendix F.4.2 Abundance of avifauna species with conservation importance throughout the monitoring period



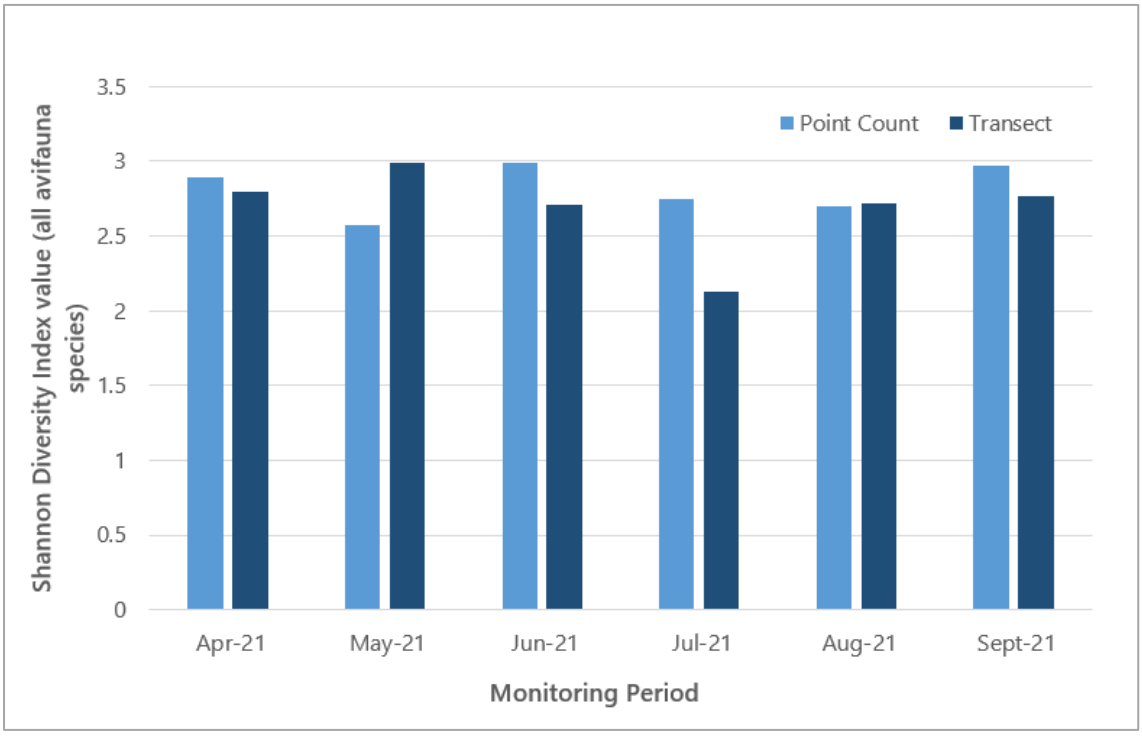
Appendix F.5.1 Species richness of all avifauna species throughout the monitoring period



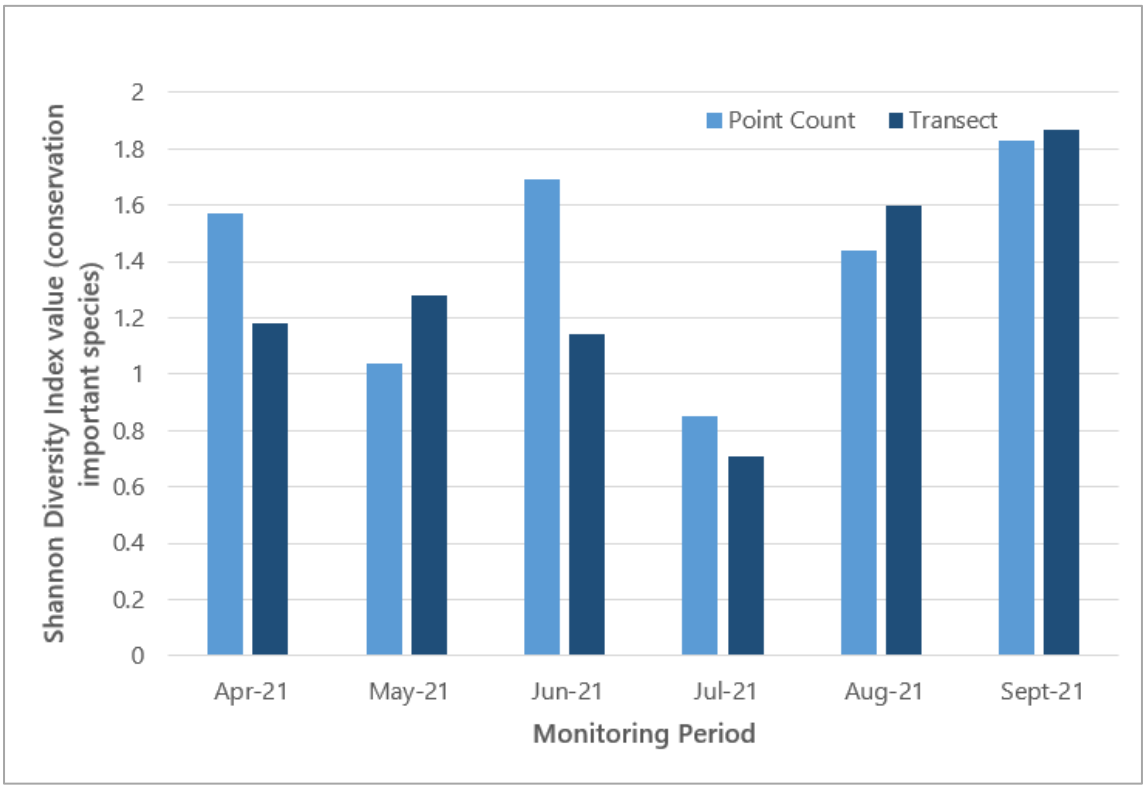
Appendix F.5.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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



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



Appendix F.7 Two-tailed Unpaired T-test

Formula:

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

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

Months	September 2016	September 2021
N	70	52
df	69	51
M	3.17	1.9
SS	889.94	112.52
S^2	12.9	2.21
t-value	2.40	
p-value	0.02	
Notes: N: Number of samples/observation df: Degrees of freedom M: Mean SS: Sum of Squares S^2: Measure on a random sample that is used to estimate the variance of the population		

Appendix F.7.2 Abundance of all avifauna species – Transect Walk Method

Months	September 2016	September 2021
N	33	28
df	32	27
M	3.61	3.68
SS	405.88	166.11
S^2	12.68	6.15
t-value	-0.09	
p-value	0.93	
Notes: N: Number of samples/observation df: Degrees of freedom M: Mean SS: Sum of Squares S^2: Measure on a random sample that is used to estimate the variance of the population		

Appendix F.7.3 Abundance of avifauna species with conservation importance – Point Count Method

Months	September 2016	September 2021
N	32	19
df	31	18
M	3.72	2.47
SS	488.47	76.74
S^2	15.76	4.26
t-value	1.27	
p-value	0.21	
Notes: N: Number of samples/observation df: Degrees of freedom M: Mean SS: Sum of Squares S^2: Measure on a random sample that is used to estimate the variance of the population		

Appendix F.8 Hutcheson t-test testing method and output

Formula:

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

Appendix F.8.1 Species diversity of all avifauna species – Point Count Method

Months	September 2016	September 2021
Total	222	99
N	34	25
H	3.01	2.97
S^2_H	0.004	0.006
t	0.42	
df	232.88	
Crit	1.97	
p	0.67	
CI	0.13	0.15

Appendix F.8.2 Species diversity of all avifauna species – Transect Walk Method

Months	September 2016	September 2021
Total	119	103
N	27	21
H	2.95	2.77

Months	September 2016	September 2021
S^2_H	0.006	0.006
t	1.72	
df	221	
Crit	1.97	
p	0.09	
CI	0.15	0.15

Appendix F.8.3 Species diversity of avifauna species with conservation importance – Point Count Method

Months	September 2016	September 2021
Total	119	47
N	12	7
H	2.04	1.83
S^2_H	0.006	0.006
t	1.98	
df	128.42	
Crit	1.98	
p	0.05	
CI	0.15	0.16