Notification of Water Quality Monitoring Exceedance

Incident Report on Action/ Limit Level Exceedance

Reference No.:	IR2022	20823_	M2_SS										
Project:		act No. Stage 1		2020 Environme	ntal Team fo	or Con	struc	tion of Y	uen Long Efflu	ent Polishing			
Date:	2022/												
Time: (hh:mm)	(Floor M1: M2: M3:	1 Tide) 19:03											
	1415.		DO (ı	mg/L)	Turk	oidity	(NTU	J)	SS	SS (mg/L) L LL L 112 4 167 ——— ut problem.			
Action level / Limit level:			AL	LL	AL			LL LL	AL	AL LL 81 112 .04 167 mout problem.			
(For Flood Tide)	M2	1	.88	1.79	43.0		5	2.4	81	112			
	M3 3		.28	3.14	74.3		78.0		104	167			
Measured level of exceeded parameter: (fill in / circle as appropriate)	M1		DO (AL , NTU (AL SS (AL / DO (AL ,	. / LL) : LL) : / LL) :		M	3	DO (AL NTU (A SS (AL ,	-				
			NTU (AL SS (AL /										
Action taken / to be taken: (tick / circle / fill in as appropriate)	☑ Monitoring equipment & monitoring data are checked and confirmed without problem. ☐ In-situ measurement is repeated. ☐ Other												
							DO		Turbidity	SS			
				station exceeded		' Evidei	nces						
Danible vector for	construction site												
action or Limit level Non-compliance: (tick /	reside	ntial di	scharge										
fill in as appropriate)	le reason for												
			uction act f station	tivities were carr	ied out in					M2			
	□ Oth	er											



Notification of Water Quality Monitoring Exceedance

Incident Report on Action/ Limit Level Exceedance

Reference No.:	IR20220823	B_M2_SS											
Project:	Contract No	o. SPW 07/2020 Environmental Team	for Construc	ction of	Yuen Long	Effluent l	Polishing						
Project.	Plant Stage	- 1											
Date:	2022/08/23	}											
			DO		Turbidit	y	SS						
Conclusion:	☑ Due to c	hange or/and influences of ambient					M2						
	condition in the vicinity, not Project related												
	☐ Due to ir	☐ Due to influences of construction activities											
	under this	under this project in the vicinity, considered to											
	be Project related												
	The followi	ng mitigation measures have be take	n:										
Mitigation Measures:	to silt re 2. The surf 3. Manholomaterial 4. Channel	ls, earth bunds or sand bag barriers amoval facilities; faces of construction site areas near thes were adequately covered and tells or debris from getting into the draits and manholes were maintained am to prevent overflows and localised	he drainages mporarily se nage system and the dep	s was pa ealed sc , and;	ved; as to prev	ent silt,	construction						
	☐ Repeat ii	n-situ measurement was done.	-										
Remarks: (tick / fill in as	M1	DO : NTU :	М3										
appropriate)	M2	DO : NTU :											
	☑ No major observation of upstream area was found												
	Annex A – Location of Water Quality Monitoring Stations												
Attachment	Annex B – \	Water Quality Monitoring Results											
	Annex C – I	Photo of Investigation											
<u> </u>			·				· · · · · · · · · · · · · · · · · · ·						

Note: The box is checked $\ensuremath{\square}$ to represent the statement is applicable, and vice versa.

Prepared by: Toby Wan

Signature: (Ry

Date (dd/mm/yyyy): 1/9/2022

Certified by: Alvin L.B. Yu

Designation: Environmental Team Leader

Signature:

Date (dd/mm/yyyy): 1/9/2022

Notes:

- Abbreviation:

DO – Dissolved Oxygen

NTU - Turbidity

SS – Suspended Solids

AL – Action Level

LL – Limit Level

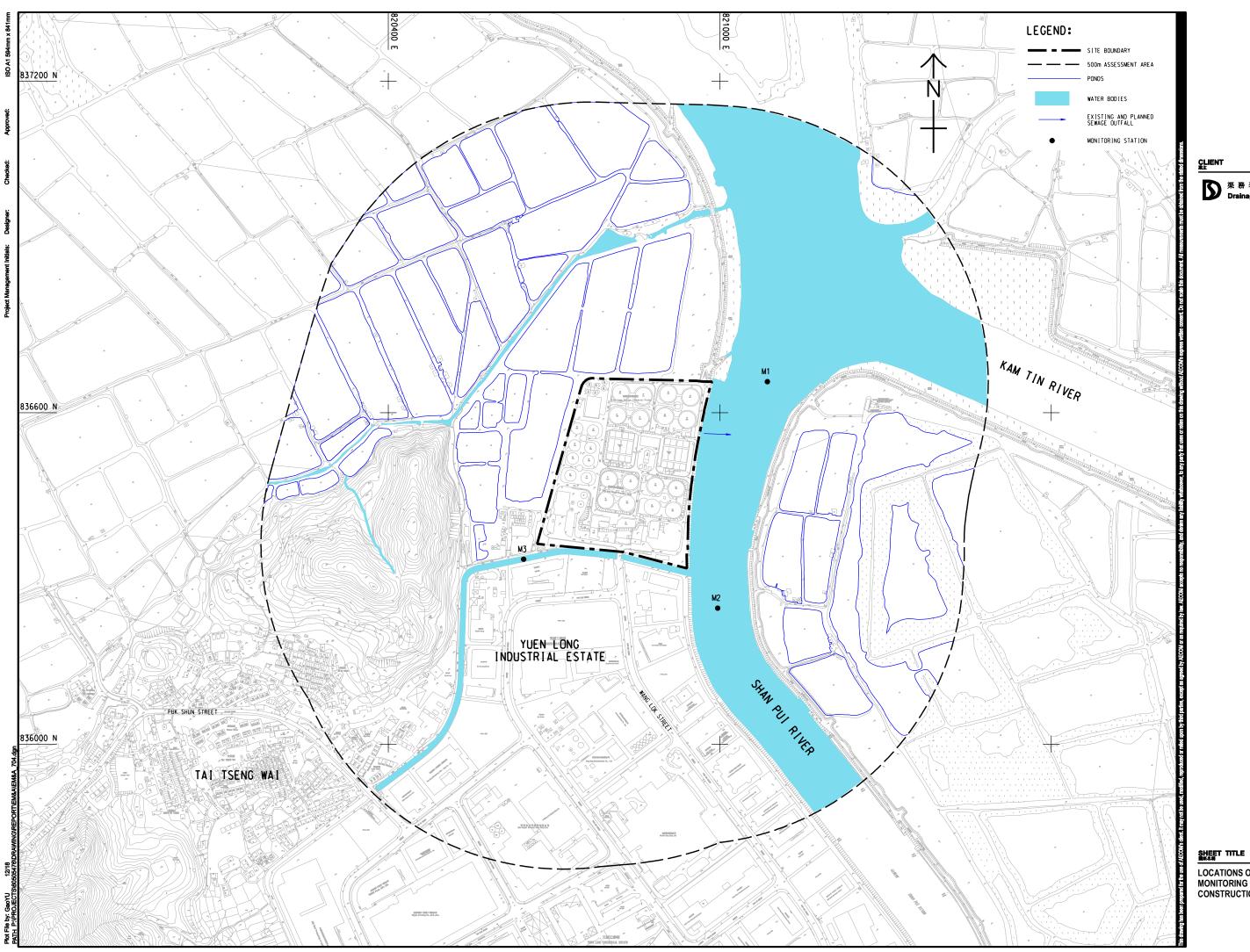
ER – Engineer's Representative

IEC - Independent Checker



Annex A – Location of Water Quality Monitoring Stations







LOCATIONS OF WATER QUALITY MONITORING STATIONS FOR CONSTRUCTION PHASE

Annex B – Water Quality Monitoring Results



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

Water Quality Monitoring Results

									m.	In-situ Measurement										Laborator	y Analysis				
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Sali (p	,	Tempe (degr	erature ee C)	DO Sat		Di (mg	-	Turb (NT		Total Su: Sol (mg	ids
										Value	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	23/8/2022	Mid-Flood	Cloudy	Calm	19:22	2	M	1	1	0.35	251	7.52	7.53	2.88	2.88	34.19	34.20	48.9	48.7	3.46	3,44	20.2	20.4	23	22
M1	23/8/2022	Mid-Flood	Cloudy	Calm	19:22	2	M	1	2	0.55	231	7.54	7.55	2.88	2.00	34.21	34.20	48.4	40.7	3.42	3.44	20.6	20.4	21	22
M2	23/8/2022	Mid-Flood	Cloudy	Calm	19:03	1	M	0.5	1	0.303	337	7.41	7.42	2.53	2.52	34.49	34.48	43.5	43.1	3.13	3.10	24.5	24.7	96	0.4
M2	23/8/2022	Mid-Flood	Cloudy	Calm	19:03	1	M	0.5	2	0.303	337	7.43	7.42	2.51	2.52	34.47	5	42.7	43.1	3.07	3.10	24.9	24.7	92	94
М3	23/8/2022	Mid-Flood	Fine	Moderate	19:02	1.2	M	0.6	1	0.056	92	7.14	7.15	1.92	1.93	32.03	32.04	50.7	50.8	5.13	5.15	17.7	17.8	21	23
M3	23/8/2022	Mid-Flood	Fine	Moderate	19:02	1.2	M	0.6	2	0.030	32	7.15	7.13	1.94	1.53	32.04	32.04	50.9	30.0	5.16	3.13	17.8	17.0	25	23
M1	23/8/2022	Mid-Ebb	Cloudy	Calm	11:27	2.2	M	1.1	1	0.392	227	7.16	7.17	2.31	2.32	32.41	32.42	62.6	62.2	4.51	4.49	14.8	15.2	18	10
M1	23/8/2022	Mid-Ebb	Cloudy	Calm	11:27	2.2	M	1.1	2	0.332	221	7.18	7.17	2.32	2.52	32.42	32.42	61.8	02.2	4.46	4.43	15.5	13.2	17	10
M2	23/8/2022	Mid-Ebb	Cloudy	Calm	11:47	1.2	M	0.6	1	0.335	205	7.29	7.29	1.89	1.89	32.89	32.90	56.7	56.5	4.14	4.13	22.4	22.6	30	31
M2	23/8/2022	Mid-Ebb	Cloudy	Calm	11:47	1.2	M	0.6	2	0.333	203	7.29	1.23	1.88	1.05	32.91	32.50	56.2	30.3	4.11	4.13	22.7	22.0	31	31
М3	23/8/2022	Mid-Ebb	Fine	Moderate	11:19	0.9	M	0.45	1	0.066	188	7.03	7.04	1.79	1.79	32.50	32.49	48.4	48.3	4.76	4.75	22.0	22.0	24	23
M3	23/8/2022	Mid-Ebb	Fine	Moderate	11:19	0.9	M	0.45	2	0.000	100	7.04	7.04	1.78	1.79	32.47	32.49	48.1	40.3	4.74	4.75	22.0	22.0	22	23

Remark

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

For Flood Tide

Monitoring	D	10	N	TU	SS			
Location	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	D	10	N	TU	SS			
Location	AL	LL	AL	LL	AL	LL		
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68		

Annex C – Photo of investigation



Date of investigation: 23 August 2022 (Flood Tide)

Monitoring Station: M2







Annex D – Site Inspection





Date of site inspection: 24 August 2022 Gullies were bunded by sand bags to prevent surface runoff.

