

K. Summary of Water Quality Monitoring associated with Ecological Monitoring conducted

Table K1. Water quality at WRA during the reporting month

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turbidity (NTU)	DO (mg/L)	Water Level (regular monitoring) (cm)	Additional Water Level Monitoring (cm)
1	20.1	7.81	0.25	7.0	9.1	130	130
2	19.5	7.90	0.29	18.9	9.5	100	110
3	21.0	7.98	0.25	7.0	9.2	130	130
4	22.7	7.88	0.22	5.2	7.4	130	130
Action Level	-	<6.5 or >8.0	>2	-	<2	<150 or >250	<150 or >250
Limit Level	-	<6.0 or >8.5	>5	-	<1	-	-

Note: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underline** indicate that limit level is reached.

Table K2. In situ water quality at WRA during the reporting month

Cell No.	Ammonia (mg/L)	Total oxidized nitrogen (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
1	0.05	0.04	0.04	<0.01	<2
2	0.04	0.02	0.05	<0.01	<2
3	0.04	0.03	0.03	<0.01	<2
4	0.06	0.02	0.03	<0.01	<2
Action Level	>3	>5	>5	-	-
Limit Level	>6	>10	>10	-	-

Note: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underline** indicate that limit level is reached.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ENOVATIVE ENVIRONMENTAL SERVICE LTD	<i>Laboratory</i>	: ALS Technichem (HK) Pty Ltd	<i>Page</i>	: 1 of 5
<i>Contact</i>	: MR THOMAS WONG	<i>Contact</i>	: Richard Fung	<i>Work Order</i>	: HK1822332
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<i>Telephone</i>	: ----	<i>Telephone</i>	: +852 2610 1044	<i>Date received</i>	: 21-Mar-2018
<i>Facsimile</i>	: ----	<i>Facsimile</i>	: +852 2610 2021	<i>Date of issue</i>	: 28-Mar-2018
<i>Project</i>	: WO SHANG WAI	<i>Quote number</i>	: HKE/2894/2017	<i>No. of samples</i>	- Received : 12
<i>Order number</i>	: —				- Analysed : 12
<i>C-O-C number</i>	: —				
<i>Site</i>	: —				

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This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:

Inorganics



Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1822332 supersedes any previous reports with this reference. Testing period is from 21-Mar-2018 to 28-Mar-2018. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1822332 :

Sample(s) were received in chilled condition.

Water sample(s) analysed and reported on as received basis.



Analytical Results

Sub-Matrix: POND WATER

			Compound	EK055K: Ammonia as N	EK059A: Nitrite + Nitrate as N	EK071K: Reactive Phosphorus as P	EK067P: Total Phosphorus as P	EP030: Biochemical Oxygen Demand
			LOR Unit	0.01 mg/L	0.01 mg/L	0.01 mg/L	0.01 mg/L	2 mg/L
Client sample ID	Client sampling date / time	Laboratory sample ID		ED/EK: Inorganic Nonmetallic Parameters	ED/EK: Inorganic Nonmetallic Parameters	ED/EK: Inorganic Nonmetallic Parameters	ED/EK: Inorganic Nonmetallic Parameters	EP: Aggregate Organics
WM1-1	21-Mar-2018	HK1822332-001		0.06	0.02	<0.01	0.04	<2
WM1-2	21-Mar-2018	HK1822332-002		0.05	0.02	<0.01	0.04	<2
WM1-3	21-Mar-2018	HK1822332-003		0.05	0.09	<0.01	0.04	<2
WM2-1	21-Mar-2018	HK1822332-004		0.04	0.01	<0.01	0.05	<2
WM2-2	21-Mar-2018	HK1822332-005		0.04	0.02	<0.01	0.05	<2
WM2-3	21-Mar-2018	HK1822332-006		0.03	0.02	<0.01	0.04	<2
WM3-1	21-Mar-2018	HK1822332-007		0.04	0.03	<0.01	0.03	2
WM3-2	21-Mar-2018	HK1822332-008		0.04	0.03	<0.01	0.03	<2
WM3-3	21-Mar-2018	HK1822332-009		0.04	0.02	<0.01	0.03	<2
WM4-1	21-Mar-2018	HK1822332-010		0.06	0.02	<0.01	0.03	3
WM4-2	21-Mar-2018	HK1822332-011		0.07	0.02	<0.01	0.03	<2
WM4-3	21-Mar-2018	HK1822332-012		0.06	0.03	<0.01	0.03	<2



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1518768)								
HK1822332-010	WM4-1	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	0.06	0.06	0.00
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1518769)								
HK1822332-012	WM4-3	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	0.06	0.08	22.2
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1519039)								
HK1822310-005	Anonymous	EK059A: Nitrite + Nitrate as N	----	0.01	mg/L	0.02	0.02	0.00
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1519374)								
HK1822332-012	WM4-3	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.00
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1520219)								
HK1822332-011	WM4-2	EK067P: Total Phosphorus as P	----	0.01	mg/L	0.03	0.03	0.00

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		Method: Compound	CAS Number	LOR		Unit	Result	LCS	DCS	Low	High
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1518768)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	101	----	92	109	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1518769)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	100	----	92	109	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1519039)											
EK059A: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.05 mg/L	101	----	86	116	----	----
				<0.01	0.4 mg/L	105	----	98	113	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1519374)											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	98.8	----	95	107	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1520219)											
EK067P: Total Phosphorus as P	----	0.01	mg/L	<0.01	0.5 mg/L	96.4	----	92	104	----	----
EP: Aggregate Organics (QCLot: 1515674)											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	99.4	----	81	121	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
					MS	MSD	Low	High	Value	Control Limit	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number								



Matrix: WATER

Matrix: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number		MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1518768)										
HK1822332-010	WM4-1	EK055K: Ammonia as N	7664-41-7	0.5 mg/L	103	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1518769)										
HK1822332-012	WM4-3	EK055K: Ammonia as N	7664-41-7	0.5 mg/L	102	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1519039)										
HK1822310-005	Anonymous	EK059A: Nitrite + Nitrate as N	----	1 mg/L	102	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1519374)										
HK1822332-012	WM4-3	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	96.4	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 1520219)										
HK1822332-011	WM4-2	EK067P: Total Phosphorus as P	----	0.5 mg/L	100	----	75	125	----	----