



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: TAFAWUQ FACILITY MANAGEMENT</b>	
Site Location: City of Lights	Date: 08-12-2020
Sample Point: Addax Tower ETS Room (C1Low Zone)	Sampled By: Crystalline Rep

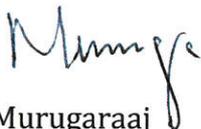
### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	8.5 - 10.0	10.29
Conductivity, $\square$ s/cm	<2250	3005
TDS, ppm	<1500	1953
Chlorides as Cl <sup>-</sup> , ppm	<150	135
Total Hardness, ppm	<100 ppm as CaCO <sub>3</sub>	150
Total Alkalinity, ppm	<250 ppm as CaCO <sub>3</sub>	106
Total Iron, ppm as Fe	<1.0 ppm as Fe <sup>++</sup>	0.14
Nitrite, ppm	800 - 1000 ppm as NaNO <sub>2</sub>	>1250

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\square$ mhos).

COMMENTS:	ACTION:
The pH level is slightly high.	⇨ Please maintained desired control limits.
Conductivity/TDS are high.	⇨ Please maintained desired control limits.
Dissolved iron levels are satisfactory	⇨ No action recommended
Nitrite levels are high.	⇨ Please maintained desired control limits.

Reported By



Murugaraaj  
Service Engineer



CLEANER WATER GREENER TOMORROW



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-12-2020
Sample Point: Addax Tower ETS Room (C1High Zone)	Sampled By: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	10.36
Conductivity, $\square$ s/cm	<2250	2809
TDS, ppm	<1500	1825
Chlorides as Cl-, ppm	<150	145
Total Hardness, ppm	<100 ppm as CaCO <sub>3</sub>	64
Total Alkalinity, ppm	<250 ppm as CaCO <sub>3</sub>	162
Total Iron, ppm as Fe	<1.0 ppm as Fe <sup>++</sup>	0.17
Nitrite, ppm	800 - 1000 ppm as NaNO <sub>2</sub>	1130

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\square$ mhos).

COMMENTS:	ACTION:
The pH level is slightly high.	⇒ Please maintained desired control limits.
Conductivity/TDS are high.	⇒ Please maintained desired control limits.
Dissolved iron levels are satisfactory	⇒ No action recommended
Nitrite levels are high.	⇒ Please maintained desired control limits.

Reported By

  
Murugaraaj  
Service Engineer



CLEANER WATER GREENER TOMORROW



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-12-2020
Sample Point: Marina Bay C2 building ETS Room	Sampled By: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	9.38
Conductivity, $\square$ s/cm	<2250	1370
TDS, ppm	<1500	890
Chlorides as Cl-, ppm	<150	90
Total Hardness, ppm	<100 ppm as CaCo <sub>3</sub>	98
Total Alkalinity, ppm	<250 ppm as CaCo <sub>3</sub>	104
Total Iron, ppm as Fe	<1.0 ppm as Fe <sup>++</sup>	0.38
Nitrite, ppm	800 - 1000 ppm as NaNo <sub>2</sub>	590

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\square$ mhos).

COMMENTS:	ACTION:
The pH level is satisfactory. $\Rightarrow$	No action recommended.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are Low. $\Rightarrow$	Please maintained desired control limits.

Reported By

Murugaraaj  
Service Engineer



CLEANER WATER GREENER TOMORROW



**CONSULTING TEST REPORT**

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-12-2020
Sample Point: Marina Bay C3 building ETS Room	Sampled By: Crystalline Rep

**CHILLED WATER ANALYSIS**

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	9.89
Conductivity, $\mu$ s/cm	<2250	1416
TDS, ppm	<1500	920
Chlorides as Cl-, ppm	<150	80
Total Hardness, ppm	<100 ppm as CaCO <sub>3</sub>	96
Total Alkalinity, ppm	<250 ppm as CaCO <sub>3</sub>	124
Total Iron, ppm as Fe	<1.0 ppm as Fe <sup>++</sup>	0.41
Nitrite, ppm	800 - 1000 ppm as NaNO <sub>2</sub>	600

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu$ mhos).

COMMENTS:	ACTION:
The pH level is slightly high. $\Rightarrow$	Please maintained desired control limits.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are Low. $\Rightarrow$	Please maintained desired control limits.

Reported By  
*Murugaraaj*  
Murugaraaj  
Service Engineer

