



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-11-2020
Sample Point: Hydra C4 building ETS Room (low zone)	Sampled By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	8.26
Conductivity, \square s/cm	<2250	3051
TDS, ppm	<1500	1983
Chlorides as Cl ⁻ , ppm	<150	92
Total Hardness, ppm	<100 ppm as CaCO ₃	110
Total Alkalinity, ppm	<250 ppm as CaCO ₃	156
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	<0.10
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	1580

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

COMMENTS:	ACTION:
The pH level is low	⇒ 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


Murugaraa
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-11-2020
Sample Point: Hydra C4 building ETS Room (high zone)	Sampled By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	9.08
Conductivity, \square s/cm	<2250	2064
TDS, ppm	<1500	1341
Chlorides as Cl-, ppm	<150	80
Total Hardness, ppm	<100 ppm as CaCO ₃	96
Total Alkalinity, ppm	<250 ppm as CaCO ₃	152
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	0.17
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	1510

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

COMMENTS:	ACTION:
The pH level is satisfactory. \Rightarrow	No action recommended.
Conductivity/TDS are satisfactory. \Rightarrow	No action recommended.
Dissolved iron levels are satisfactory. \Rightarrow	No action recommended.
Nitrite levels are high. \Rightarrow	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: 08-11-2020
Sample Point: Hydra C5 building ETS Room (low zone)	Sampled By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	9.64
Conductivity, \square s/cm	<2250	4099
TDS, ppm	<1500	2664
Chlorides as Cl ⁻ , ppm	<150	98
Total Hardness, ppm	<100 ppm as CaCO ₃	114
Total Alkalinity, ppm	<250 ppm as CaCO ₃	184
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	>1.0
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	>1500

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
Conductivity/TDS are slightly high \Rightarrow	Please maintain the desired control limit.
Dissolved iron levels are high. \Rightarrow	Please maintain the desired control limit.
Nitrite levels are high. \Rightarrow	Please maintain the desired control limit.

Reported By


Murugaraaj
Service Engineer



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CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-11-2020
Sample Point: Hydra C6 building ETS Room (low zone)	Sampled By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	9.24
Conductivity, \square s/cm	<2250	3074
TDS, ppm	<1500	1998
Chlorides as Cl-, ppm	<150	62
Total Hardness, ppm	<100 ppm as CaCO ₃	76
Total Alkalinity, ppm	<250 ppm as CaCO ₃	194
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	<0.10
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	850

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

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

Reported By


 Murugaraaj
 Service Engineer



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CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-11-2020
Sample Point: Hydra C6 building ETS Room (high zone)	Sampled By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	9.55
Conductivity, \square s/cm	<2250	3062
TDS, ppm	<1500	1990
Chlorides as Cl-, ppm	<150	52
Total Hardness, ppm	<100 ppm as CaCO ₃	60
Total Alkalinity, ppm	<250 ppm as CaCO ₃	184
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	<0.10
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	820

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

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

Reported By


Murugaraaj
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