



CONSULTING SERVICE REPORT

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|--|--|---------------------------------------|
| CUSTOMER: TAFAWUQ FACILITY MANAGEMENT | To: MR. TAHA DAKKA ASSISTANT FACILITIES MANAGER | DATE: 07-03-2020 |
| SITE: HORIZON TOWER | Copy: TAFAWUQ | LOCATION: HIGH ZONE, E1 TOWER, |

CHILLED WATER ANALYSIS

| PARAMETER | CONTROL LIMITS | CHILLED WATER | |
|--|----------------|---------------|--|
| pH | 9.0 - 10.5 | 10.88 | |
| Conductivity, $\mu\text{s}/\text{cm}$ | Max 3500 | 1896 | |
| TDS, ppm | -- | 1232 | |
| 'P' Alkalinity, ppm as CaCO_3 | -- | | |
| Total Hardness, ppm as CaCO_3 | -- | | |
| Calcium Hardness, ppm as CaCO_3 | -- | | |
| Chloride, ppm as Cl^- | -- | | |
| Iron, ppm as Fe | 0 - 2.0 | 0.23 | |

Treatment Residuals

| | | | |
|--------------|------------------|-----|--|
| Nitrite, ppm | ➤ 800 | 730 | |
| CaH Balance | | | |
| Dipslide | <10 ³ | ND | |

All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

COMMENTS:

ACTION:

| | | |
|--|---|--|
| The pH levels are slightly high | ⇒ | Kindly maintain the desired control limit |
| Dissolved iron levels are found within control limits. | ⇒ | No action recommended. |
| Corrosion Inhibitor levels are low | ⇒ | Please maintain the nitrite level above 800PPM |

INVENTORY LEVELS

DOSAGE SCHEDULE

| Chemical | Quantity | Chemical | Present Dosage | Revised Dosage |
|---------------|----------|----------|----------------|----------------|
| Crystal 5547C | | | -- | |
| Crystal 9040 | | | -- | |
| | | | -- | |

| | | | |
|--------------------------|-----------|-------------------|----------------|
| Service Engineer: | MURUGARAJ | Client: | MR. TAHA DAKKA |
| Signature: | | Signature: | |



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| CUSTOMER: TAFAWUQ FACILITY MANAGEMENT | To: MR. TAHA DAKKA ASSISTANT FACILITIES MANAGER | DATE: 07-03-2020 |
| SITE: HORIZON TOWER | Copy: TAFAWUQ | LOCATION: E1 TOWER, LOW ZONE BASEMENT 01, |

CHILLED WATER ANALYSIS

| PARAMETER | CONTROL LIMITS | CHILLED WATER | |
|--|----------------|---------------|--|
| pH | 9.0 - 10.5 | 10.44 | |
| Conductivity, $\mu\text{s}/\text{cm}$ | Max 3500 | 1677 | |
| TDS, ppm | -- | 1090 | |
| 'P' Alkalinity, ppm as CaCO_3 | -- | | |
| Total Hardness, ppm as CaCO_3 | -- | | |
| Calcium Hardness, ppm as CaCO_3 | -- | | |
| Chloride, ppm as Cl^- | -- | | |
| Iron, ppm as Fe | 0 - 2.0 | 0.13 | |

Treatment Residuals

| | | | |
|--------------|------------------|-----|--|
| Nitrite, ppm | ➤ 800 | 830 | |
| CaH Balance | | | |
| Dipslide | <10 ³ | ND | |

All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

| COMMENTS: | ACTION: |
|---|------------------------|
| The pH levels are satisfactory ⇨ | No action recommended. |
| Dissolved iron levels are satisfactory ⇨ | No action recommended. |
| Corrosion Inhibitor levels are satisfactory ⇨ | No action recommended. |

| INVENTORY LEVELS | | | DOSAGE SCHEDULE | |
|--------------------------|---|----------|-------------------|-----------------------|
| Chemical | Quantity | Chemical | Present Dosage | Revised Dosage |
| Crystal 5547C | | | -- | |
| Crystal 9040 | | | -- | |
| | | | -- | |
| Service Engineer: | MURUGARAJ | | Client: | MR. TAHA DAKKA |
| Signature: |  | | Signature: | |





CONSULTING SERVICE REPORT

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| CUSTOMER: TAFAWUQ FACILITY MANAGEMENT | To: MR. TAHA DAKKA ASSISTANT FACILITIES MANAGER | DATE: 07-03-2020 |
| SITE: HORIZON TOWER | Copy: TAFAWUQ | LOCATION: E2 TOWER, BASEMENT 01 |

CHILLED WATER ANALYSIS

| PARAMETER | CONTROL LIMITS | CHILLED WATER | |
|--|----------------|---------------|--|
| pH | 9.0 - 10.5 | 10.83 | |
| Conductivity, $\mu\text{s}/\text{cm}$ | Max 3500 | 1765 | |
| TDS, ppm | -- | 1147 | |
| 'P' Alkalinity, ppm as CaCO_3 | -- | | |
| Total Hardness, ppm as CaCO_3 | -- | | |
| Calcium Hardness, ppm as CaCO_3 | -- | | |
| Chloride, ppm as Cl^- | -- | | |
| Iron, ppm as Fe | 0 - 2.0 | 0.23 | |

Treatment Residuals

| | | | |
|--------------|------------------|-----|--|
| Nitrite, ppm | ➤ 800 | 860 | |
| CaH Balance | | | |
| Dipslide | <10 ³ | ND | |

All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

COMMENTS:

ACTION:

| | | |
|---|---|---|
| The pH levels are slightly high | ⇒ | Kindly maintain the desired control limit |
| Dissolved iron levels are satisfactory | ⇒ | No action recommended. |
| Corrosion Inhibitor levels are satisfactory | ⇒ | No action recommended. |

INVENTORY LEVELS

DOSAGE SCHEDULE

| Chemical | Quantity | Chemical | Present Dosage | Revised Dosage |
|--------------------------|------------------|----------|-------------------|-----------------------|
| Crystal 5547C | | | -- | |
| Crystal 9040 | | | -- | |
| | | | -- | |
| Service Engineer: | MURUGARAJ | | Client: | MR. TAHA DAKKA |
| Signature: | | | Signature: | |

