

CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	16-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	GF-Chiller Yard - Water Cooled

TEST RESULT

No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	8.69
2	Conductivity at 25°C, µs/cm	Max 3500	1071
3	TDS, ppm	---	696
4	Iron, ppm as Fe	0 - 2.0	0.05
5	Nitrite, ppm.	>800	<5
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS

- pH Levels are satisfactory – No action recommended.
- Nitrite levels are low – Please maintain the nitrite level above 800PPM

Reported By,

Murugara
Murugara
Service Engineer



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Sample Type	Chilled Water	Sample Point	GF-Chiller Yard - Water Cooled

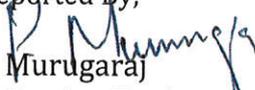
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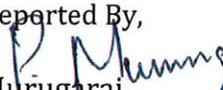
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Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	16-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	Roof Top Chiller Yard - Air Cooled

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.31
2	Conductivity at 25°C, µs/cm	Max 3500	1047
3	TDS, ppm	---	680
4	Iron, ppm as Fe	0 - 2.0	0.38
5	Nitrite, ppm.	>800	410
6	Dip slide	<10 ³	ND

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COMMENTS AND RECOMMENDATIONS
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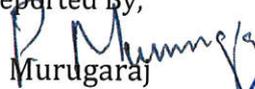
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Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	16-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	GF-Secondary Pump Room

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.42
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	Max 3500	1241
3	TDS, ppm	---	806
4	Iron, ppm as Fe	0 - 2.0	0.18
5	Nitrite, ppm.	>800	560
6	Dip slide	<10 ³	ND

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COMMENTS AND RECOMMENDATIONS
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Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	16-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	B2-Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.41
2	Conductivity at 25°C, µs/cm	Max 3500	1860
3	TDS, ppm	---	1209
4	Iron, ppm as Fe	0 - 2.0	0.07
5	Nitrite, ppm.	>800	640
6	Dip slide	<10 ³	ND

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Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	16-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	L-06, Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.36
2	Conductivity at 25°C, µs/cm	Max 3500	1231
3	TDS, ppm	---	804
4	Iron, ppm as Fe	0 - 2.0	0.07
5	Nitrite, ppm.	>800	510
6	Dip slide	<10 ³	ND

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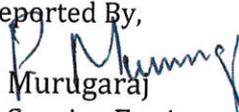
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Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -HQ
Sample Type	Chilled Water	Sample Point	HQ-Basement Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.33
2	Conductivity at 25°C, µs/cm	Max 3500	1145
3	TDS, ppm	---	744
4	Iron, ppm as Fe	0 - 2.0	0.18
5	Nitrite, ppm.	>800	590
6	Dip slide	<10 ³	ND

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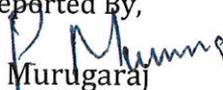
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Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -HQ
Sample Type	Chilled Water	Sample Point	HQ-L-16 - Plant Room

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.27
2	Conductivity at 25°C, µs/cm	Max 3500	1152
3	TDS, ppm	---	748
4	Iron, ppm as Fe	0 - 2.0	0.10
5	Nitrite, ppm.	>800	550
6	Dip slide	<10 ³	ND

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Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -HQ
Sample Type	Chilled Water	Sample Point	HQ-L-32 Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	9.12
2	Conductivity at 25°C, µs/cm	Max 3500	2154
3	TDS, ppm	---	1412
4	Iron, ppm as Fe	0 - 2.0	0.11
5	Nitrite, ppm.	>800	920
6	Dip slide	<10 ³	ND

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Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -HQ
Sample Type	Chilled Water	Sample Point	HQ-L-37 Chilled Water

TEST RESULT

No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	9.71
2	Conductivity at 25°C, µs/cm	Max 3500	421
3	TDS, ppm	---	273
4	Iron, ppm as Fe	0 - 2.0	0.14
5	Nitrite, ppm.	>800	180
6	Dip slide	<10 ³	ND

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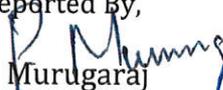
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Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	16-10-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -BRC
Sample Type	Chilled Water	Sample Point	G-Floor Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	9.29
2	Conductivity at 25°C, µs/cm	Max 3500	1596
3	TDS, ppm	---	1037
4	Iron, ppm as Fe	0 - 2.0	0.48
5	Nitrite, ppm.	>800	890
6	Dip slide	<10 ³	ND

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Sampled By	Crystalline Rep	Sample Location	ADIA -BRC
Sample Type	Chilled Water	Sample Point	M-Floor Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	9.32
2	Conductivity at 25°C, µs/cm	Max 3500	1610
3	TDS, ppm	---	1046
4	Iron, ppm as Fe	0 - 2.0	0.43
5	Nitrite, ppm.	>800	870
6	Dip slide	<10 ³	ND

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Sampled By	Crystalline Rep	Sample Location	ADIA -BRC
Sample Type	Chilled Water	Sample Point	G-Floor Chiller Yard

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	9.31
2	Conductivity at 25°C, µs/cm	Max 3500	1594
3	TDS, ppm	---	1036
4	Iron, ppm as Fe	0 - 2.0	0.38
5	Nitrite, ppm.	>800	880
6	Dip slide	<10 ³	ND

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