



CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 29-10-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: SV1 - CHILLER PLANT ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLED WATER	
pH	9.0 - 10.5	09.73	
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1221	
TDS, ppm	--	793	
'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	0.17	

Treatment Residuals

Nitrite, ppm	> 800	690	
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 and Conductivity/TDS are found satisfactory. ⇨	No action recommended.
Dissolved iron levels are found within control limits. ⇨	No action recommended.
Corrosion Inhibitor levels are low ⇨	Kindly Maintain the nitrite level above 800ppm

Kindly add Crystal 5547 & Crystal 9040 to maintain the desired control parameters in the system.

Kindly install a dosing system to automatically dose the chemicals in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	
Service Engineer:	MURUGARAJ		Client:	Mr. MUHAMMED AFSHAR
Signature:			Signature:	





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SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: SV2 - CHILLER PLANT ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLED WATER	
pH	9.0 - 10.5	09.71	
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1171	
TDS, ppm	--	761	
'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	0.10	

Treatment Residuals

Nitrite, ppm	> 800	620	
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 and Conductivity/TDS are found satisfactory. ⇨	No action recommended.
Dissolved iron levels are found within control limits. ⇨	No action recommended.
Corrosion Inhibitor levels are low ⇨	Kindly Maintain the nitrite level above 800ppm

Kindly add Crystal 5547 & Crystal 9040 to maintain the desired control parameters in the system.

Kindly install a dosing system to automatically dose the chemicals in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	
Service Engineer:	MURUGARAJ		Client:	Mr. MUHAMMED AFSHAR
Signature:			Signature:	



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SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: FF2 - CHILLER PLANT ROOM

CHILLED WATER ANALYSIS

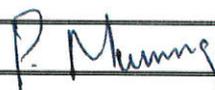
PARAMETER	CONTROL LIMITS	CHILLED WATER
pH	9.0 - 10.5	9.67
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1224
TDS, ppm	--	795
'P' Alkalinity, ppm as CaCO_3	--	
Total Hardness, ppm as CaCO_3	--	
Calcium Hardness, ppm as CaCO_3	--	
Chloride, ppm as Cl^-	--	
Iron, ppm as Fe	0 - 2.0	0.07
Treatment Residuals		
Nitrite, ppm	> 800	740
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 and Conductivity/TDS are found satisfactory. \Rightarrow	No action recommended.
Dissolved iron levels are found within control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are low \Rightarrow	Kindly Maintain the nitrite level above 800ppm

Kindly add Crystal 5547 & Crystal 9040 to maintain the desired control parameters in the system.

Kindly install a dosing system to automatically dose the chemicals in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	
Service Engineer:	MURUGARAJ	Client:		Mr. MUHAMMED AFSHAR
Signature:		P.O. Box:		



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CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLED WATER	
pH	9.0 - 10.5	09.62	
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1158	
TDS, ppm	--	752	
'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	0.08	

Treatment Residuals

Nitrite, ppm	\gt 800	580	
CaH Balance			
Dipslide	$<10^3$	ND	

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

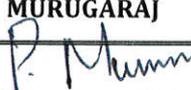
COMMENTS:

ACTION:

The pH and Conductivity/TDS are found low. \Rightarrow	Kindly Maintain the desired control limit.
Dissolved iron levels are found within control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are low \Rightarrow	Kindly Maintain the nitrite level above 800ppm

Kindly add Crystal 5547 & Crystal 9040 to maintain the desired control parameters in the system.

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