



CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 26-06-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: SV1 - ETS ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLED WATER
pH	9.0 - 10.5	09.88
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1310
TDS, ppm	--	851
'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	0.39

Treatment Residuals

Nitrite, ppm	\gt 800	710
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.

INVENTORY LEVELS

DOSAGE SCHEDULE

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

Service Engineer:	MR. MURUGARAJ	Client:	MR. MUHAMMED THAYYIL
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Signature:

P. Murugaraaj

Signature:



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CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 26-06-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: SV2 - ETS ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLED WATER
pH	9.0 - 10.5	09.91
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1267
TDS, ppm	--	824
'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	\gt 800	700
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.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	
Service Engineer:	MR. MURUGARAJ		Client:	MR. MUHAMMED THAYYIL
Signature:			Signature:	





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CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 26-06-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: FF2 PLANT ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLED WATER
pH	9.0 - 10.5	09.52
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1417
TDS, ppm	--	922
'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	0.04

Treatment Residuals

Nitrite, ppm	➤ 800	910
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 found satisfactory ⇨	No action recommended.

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

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	
Service Engineer:	MR. MURUGARAJ		Client:	MR. MUHAMMED THAYYIL
Signature:			Signature:	





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CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 26-06-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: MF2 - PLANT ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLED WATER
pH	9.0 - 10.5	08.86
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	164
TDS, ppm	--	106
'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	0.05

Treatment Residuals

Nitrite, ppm	➤ 800	30
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. ⇨	Kindly Maintain the desired control limit.
Dissolved iron levels are found within control limits. ⇨	No action recommended.
Corrosion Inhibitor levels are very low ⇨	Kindly Maintain the nitrite level above 800ppm

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

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	
Service Engineer:	MR. MURUGARAJ		Client:	MR. MUHAMMED THAYYIL
Signature:	<i>P. Murugaraaj</i>		Signature:	

