CRYSTALLINE
ENVIRONMENTAL SERVICES

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: MF2, MALE WASH ROOM**

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 – 9.2	9.25			
Conductivity at 25°C, µs/cm	1600 Max.	144			
Total Dissolved Solids (TDS)	1000 Max.	94			
Total Hardness, ppm as $CaCO_3$	300 Max.	43			
Calcium Hardness, ppm as $CaCO_3$	200 Max.	38			
Chlorides (Cl^-), mg/l	250 Max.	21			
Sulphate (SO4), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO3–N) mg/l	50 Max.	<1.0			
Nitrite (NO2–) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			
Treatment Residuals					
Odor	Unobjectionabl	ND			
Free Chlorine	0.2 – 0.5	0.15			
Turbidity in NTU	4.0 Max.	<1			

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.
Chlorine levels found low ⇨	Please maintain the desired control limit

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
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Service Engineer:	**MR. MURUGARAAJ**		**Client:**	**MR. MUHAMMED THAYYIL**
Signature:			**Signature:**	

CLEANER WATER GREENER TOMORROW

CRYSTALLINE
ENVIRONMENTAL SERVICES

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: FF2, MALE WASH ROOM**

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTBALE WATER			
pH at 25°C	7.0 – 9.2	9.48			
Conductivity at 25°C, µs/cm	1600 Max.	152			
Total Dissolved Solids (TDS)	1000 Max.	99			
Total Hardness, ppm as $CaCO_3$	300 Max.	46			
Calcium Hardness, ppm as $CaCO_3$	200 Max.	39			
Chlorides (Cl^-), mg/l	250 Max.	21			
Sulphate (SO4), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	0.07			
Aluminum (Al), mg/l	0.2 Max.	0.06			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO3–N) mg/l	50 Max.	1.3			
Nitrite (NO2–) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			
Treatment Residuals					
Odor	Unobjectionabl	ND			
Free Chlorine	0.2 – 0.5	0.08			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:	ACTION:
The pH levels are high ⇨	Please maintain the desired control limit
Chlorine levels found low ⇨	Please maintain the desired control limit

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
			--	
Service Engineer:	**MURUGARAAJ**		**Client:**	**MR. MUHAMMED THAYYIL**
Signature:			**Signature:**	

CLEANER WATER GREENER TOMORROW

CRYSTALLINE
ENVIRONMENTAL SERVICES

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: SV2 -SERVICE BUILDNIG, FILTER WATER TANK.**

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 – 9.2	9.12			
Conductivity at 25°C, µs/cm	1600 Max.	174			
Total Dissolved Solids (TDS)	1000 Max.	114			
Total Hardness, ppm as $CaCO_3$	300 Max.	51			
Calcium Hardness, ppm as $CaCO_3$	200 Max.	44			
Chlorides (Cl^-), mg/l	250 Max.	22			
Sulphate (SO4), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO3–N) mg/l	50 Max.	<1.0			
Nitrite (NO2–) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			
Treatment Residuals					
Odor	Unobjectionabl	ND			
Free Chlorine	0.2 – 0.5	0.14			
Turbidity in NTU	4.0 Max.	<1			

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.
Chlorine levels found low ⇨	Please maintain the desired control limit

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
			--	
Service Engineer:	**MR. MURUGARAAJ**		**Client:**	**MR. MUHAMMED THAYYIL**
Signature:			**Signature:**	

Crystalline Environment Protection Equip. W.L.L. P.O.Box 131463 Abu Dhabi U.A.E.

CLEANER WATER GREENER TOMORROW

CRYSTALLINE
ENVIRONMENTAL SERVICES

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: SV2 -SERVICE BUILDNIG, RAW WATER TANK.**

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 – 9.2	9.20			
Conductivity at 25°C, µs/cm	1600 Max.	167			
Total Dissolved Solids (TDS)	1000 Max.	109			
Total Hardness, ppm as $CaCO_3$	300 Max.	44			
Calcium Hardness, ppm as $CaCO_3$	200 Max.	37			
Chlorides (Cl^-), mg/l	250 Max.	20			
Sulphate (SO4), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO3–N) mg/l	50 Max.	<1.0			
Nitrite (NO2–) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			
Treatment Residuals					
Odor	Unobjectionabl	ND			
Free Chlorine	0.2 – 0.5	0.09			
Turbidity in NTU	4.0 Max.	<1			

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.
Chlorine levels found low ⇨	Please maintain the desired control limit

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
			--	
Service Engineer:	**MR. MURUGARAAJ**		**Client:**	**MR. MUHAMMED THAYYIL**
Signature:			**Signature:**	

Crystal Line Environment Protection Equip. Trad. L.L.C. P.O.Box 31463 Abu Dhabi U.A.E.

CLEANER WATER GREENER TOMORROW