CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: CONVENTION CENTER

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.51			
Conductivity, µs/cm		986			
TDS, ppm	Max 1500	640			
'P' Alkalinity, ppm as $CaCO_3$	70 - 100	74			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	298			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	1.20			
Cyanuric Acid	20 – 60	24			

All test results expressed in parts per million (ppm) as $CaCO_3$ except pH and conductivity ($\mu mhos$).

COMMENTS:	ACTION:
The pH levels are found satisfactory ⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are found satisfactory ⇨	No Action Recommended.
Calcium hardness and alkalinity found satisfactory ⇨	No Action Recommended.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	MR. MURUGARAAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	P. Mmmg	Signature:	

CLEANER WATER GREENER TOMORROW

![Crystalline Environmental Services logo]

CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: F4, PROMENADE

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.94			
Conductivity, µs/cm		814			
TDS, ppm	Max 1500	529			
'P' Alkalinity, ppm as $CaCO_3$	70 - 100	69			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	184			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	1.69			
Cyanuric Acid	20 – 60	18			

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

COMMENTS:		ACTION:
The pH levels are found satisfactory	⇨	No Action Recommended.
Chlorine levels & calcium hardness levels are found satisfactory	⇨	No Action Recommended.
Cyanuric acid and alkalinity found slightly low.	⇨	Kindly increase the dosage of chemicals.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	MR. MURUGARAAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	*P. Mmmg* [stamp: Crystal Line Environment Protection Equip. Trad. P.O.Box: 131463 Abu Dhabi U.A.E.]	Signature:	

CLEANER WATER GREENER TOMORROW

CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: F3, PROMENADE

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.43			
Conductivity, µs/cm		1108			
TDS, ppm	Max 1500	720			
'P' Alkalinity, ppm as $CaCO_3$	70 - 100	85			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	212			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	1.48			
Cyanuric Acid	20 – 60	26			

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

COMMENTS:	ACTION:
The pH levels are found satisfactory ⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are found satisfactory ⇨	No Action Recommended.
Calcium hardness and alkalinity found satisfactory ⇨	No Action Recommended.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

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: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: FF2, CENTRAL AREA

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.51			
Conductivity, µs/cm		948			
TDS, ppm	Max 1500	616			
'P' Alkalinity, ppm as $CaCO_3$	70 - 100	74			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	162			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	0.83			
Cyanuric Acid	20 – 60	24			

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

COMMENTS:	ACTION:
The pH levels are found satisfactory ⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are found satisfactory ⇨	No Action Recommended.
Calcium hardness and alkalinity found satisfactory ⇨	No Action Recommended.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

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

CLEANER WATER GREENER TOMORROW

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CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: FF3, CENTRAL AREA

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.31			
Conductivity, μs/cm		1057			
TDS, ppm	Max 1500	687			
'P' Alkalinity, ppm as $CaCO_3$	70 - 100	83			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	214			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	1.82			
Cyanuric Acid	20 – 60	21			

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

COMMENTS:	ACTION:
The pH levels are found satisfactory ⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are found satisfactory ⇨	No Action Recommended.
Calcium hardness and alkalinity found satisfactory ⇨	No Action Recommended.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	MR. MURUGARAAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	P. Mmmg [signature/stamp]	Signature:	

CLEANER WATER GREENER TOMORROW

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CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: MF2, CENTRAL AREA

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.54			
Conductivity, µs/cm		1361			
TDS, ppm	Max 1500	884			
'P' Alkalinity, ppm as $CaCO_3$	70 - 100	85			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	306			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	1.47			
Cyanuric Acid	20 – 60	28			

All test results expressed in parts per million (ppm) as $CaCO_3$ except pH and conductivity ($\mu mhos$).

COMMENTS:	ACTION:
The pH levels are found satisfactory ⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are found satisfactory ⇨	No Action Recommended.
Calcium hardness and alkalinity found satisfactory ⇨	No Action Recommended.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	MR. MURUGARAAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	*P. Mmmg* [stamp: Crystal Line Environment Protection Equip. Tr. P.O.Box 31463 Abu Dhabi U.A.E.]	Signature:	

CLEANER WATER GREENER TOMORROW

CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: MF3, CENTRAL AREA

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.40			
Conductivity, μs/cm		1211			
TDS, ppm	Max 1500	787			
'P' Alkalinity, ppm as $CaCO_3$	70 - 100	74			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	288			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	0.80			
Cyanuric Acid	20 – 60	26			

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

COMMENTS:	ACTION:
The pH levels are found satisfactory ⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are found satisfactory ⇨	No Action Recommended.
Calcium hardness and alkalinity found satisfactory ⇨	No Action Recommended.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	MR. MURUGARAAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	P. Mmmg [stamp]	Signature:	

CLEANER WATER GREENER TOMORROW

CRYSTALLINE
ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: M1, PROMENADE

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.22			
Conductivity, µs/cm		1538			
TDS, ppm	Max 1500	1003			
'P' Alkalinity, ppm as $CaCO_3$	80 - 120	74			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	348			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	1.89			
Cyanuric Acid	20 – 60	24			

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

COMMENTS:	ACTION:
The pH levels are found satisfactory ⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are found satisfactory ⇨	No Action Recommended.
Calcium hardness and alkalinity found satisfactory ⇨	No Action Recommended.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	MR. MURUGARAAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	P. Mmmg	Signature:	

CLEANER WATER GREENER TOMORROW

CRYSTALLINE
ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

CUSTOMER: SERCO MIDDLE EAST	TO: MR. MUHAMMED ASHAR OPERATIONS ENGINEER	DATE: 15-07-2019
SITE: ZAYED UNIVERSITY, ABU DHABI	COPY: MOHAMED AFSER	LOCATION: M2, PROMENADE

WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 – 7.6	7.45			
Conductivity, µs/cm		1463			
TDS, ppm	Max 1500	950			
'P' Alkalinity, ppm as $CaCO_3$	70 - 100	83			
Total Hardness, ppm as $CaCO_3$					
Calcium Hardness, ppm as $CaCO_3$	100 – 500	164			
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	1.68			
Cyanuric Acid	20 – 60	28			

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

COMMENTS:	ACTION:
The pH levels are found satisfactory ⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are found satisfactory ⇨	No Action Recommended.
Calcium hardness and alkalinity found satisfactory ⇨	No Action Recommended.

No action recommended. Kindly maintain the same dosage to maintain the desired control parameters in the system

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	**Quantity**	**Chemical**	**Present Dosage**	**Revised Dosage**
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	MR. MURUGARAAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	P. Mmmg	Signature:	

CLEANER WATER GREENER TOMORROW