



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: MR 1, PANTRY

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 – 9.2	8.20			
Conductivity at 25°C, µs/cm	1600 Max.	153			
Total Dissolved Solids (TDS)	1000 Max.	99			
Total Hardness, ppm as CaCO ₃	300 Max.	51			
Calcium Hardness, ppm as CaCO ₃	200 Max.	44			
Chlorides (Cl ⁻), mg/l	250 Max.	16			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:

ACTION:

The pH is found satisfactory.	⇒	No action recommended.
The Conductivity/TDS found satisfactory.	⇒	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

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





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: MR 1, PLANT ROOM

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 – 9.2	8.21			
Conductivity at 25°C, µs/cm	1600 Max.	163			
Total Dissolved Solids (TDS)	1000 Max.	105			
Total Hardness, ppm as CaCO ₃	300 Max.	64			
Calcium Hardness, ppm as CaCO ₃	200 Max.	61			
Chlorides (Cl ⁻), mg/l	250 Max.	23			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:

ACTION:

The pH is found satisfactory.	⇒	No action recommended.
The Conductivity/TDS found satisfactory.	⇒	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	

Service Engineer:	MR. MURUGARAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	<i>P. Murugaraaj</i>	Signature:	





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: MDH KITCHEN

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 – 9.2	8.33			
Conductivity at 25°C, µs/cm	1600 Max.	163			
Total Dissolved Solids (TDS)	1000 Max.	106			
Total Hardness, ppm as CaCO ₃	300 Max.	52			
Calcium Hardness, ppm as CaCO ₃	200 Max.	47			
Chlorides (Cl ⁻), mg/l	250 Max.	25			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:

ACTION:

The pH is found satisfactory.	⇒	No action recommended.
The Conductivity/TDS found satisfactory.	⇒	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

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





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: MDH, WASH ROOM

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 – 9.2	8.12			
Conductivity at 25°C, µs/cm	1600 Max.	158			
Total Dissolved Solids (TDS)	1000 Max.	102			
Total Hardness, ppm as CaCO ₃	300 Max.	59			
Calcium Hardness, ppm as CaCO ₃	200 Max.	52			
Chlorides (Cl ⁻), mg/l	250 Max.	27			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:

ACTION:

The pH is found satisfactory.	⇒	No action recommended.
The Conductivity/TDS found satisfactory.	⇒	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	

Service Engineer:	MR. MURUGARAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	<i>P. Murugaraaj</i>	Signature:	





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: FDH, KITCHEN

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 – 9.2	8.37			
Conductivity at 25°C, µs/cm	1600 Max.	158			
Total Dissolved Solids (TDS)	1000 Max.	102			
Total Hardness, ppm as CaCO ₃	300 Max.	49			
Calcium Hardness, ppm as CaCO ₃	200 Max.	45			
Chlorides (Cl ⁻), mg/l	250 Max.	22			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:

ACTION:

The pH is found satisfactory.	⇒	No action recommended.
The Conductivity/TDS found satisfactory.	⇒	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	

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





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: FDH, WASH ROOM

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 - 9.2	8.43			
Conductivity at 25°C, µs/cm	1600 Max.	161			
Total Dissolved Solids (TDS)	1000 Max.	107			
Total Hardness, ppm as CaCO ₃	300 Max.	52			
Calcium Hardness, ppm as CaCO ₃	200 Max.	43			
Chlorides (Cl ⁻), mg/l	250 Max.	29			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:

COMMENTS:	⇒	ACTION:
The pH is found satisfactory.	⇒	No action recommended.
The Conductivity/TDS found satisfactory.	⇒	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	

Service Engineer:	MR. MURUGARAJ	Client:	MR. MUHAMMED THAYYIL
Signature:	<i>P. M. Murugaraaj</i>	Signature:	



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: FR1, KITCHEN

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 - 9.2	8.21			
Conductivity at 25°C, µs/cm	1600 Max.	148			
Total Dissolved Solids (TDS)	1000 Max.	96			
Total Hardness, ppm as CaCO ₃	300 Max.	47			
Calcium Hardness, ppm as CaCO ₃	200 Max.	42			
Chlorides (Cl ⁻), mg/l	250 Max.	26			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

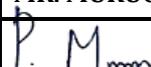
COMMENTS:

ACTION:

The pH is found satisfactory.	⇒	No action recommended.
The Conductivity/TDS found satisfactory.	⇒	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

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





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: FR 1 , LAUNDRY

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 – 9.2	8.53			
Conductivity at 25°C, µs/cm	1600 Max.	171			
Total Dissolved Solids (TDS)	1000 Max.	113			
Total Hardness, ppm as CaCO ₃	300 Max.	56			
Calcium Hardness, ppm as CaCO ₃	200 Max.	50			
Chlorides (Cl ⁻), mg/l	250 Max.	29			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:

ACTION:

The pH is found satisfactory.	⇒	No action recommended.
The Conductivity/TDS found satisfactory.	⇒	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

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





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: FSP, WASH ROOM

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 - 9.2	8.48			
Conductivity at 25°C, µs/cm	1600 Max.	159			
Total Dissolved Solids (TDS)	1000 Max.	103			
Total Hardness, ppm as CaCO ₃	300 Max.	54			
Calcium Hardness, ppm as CaCO ₃	200 Max.	48			
Chlorides (Cl ⁻), mg/l	250 Max.	26			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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COMMENTS:

ACTION:

The pH is found satisfactory.	⇒	No action recommended.
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INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	

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





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: FSP, DINNING AREA

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT WATER			
pH at 25°C	7.0 – 9.2	8.34			
Conductivity at 25°C, µs/cm	1600 Max.	162			
Total Dissolved Solids (TDS)	1000 Max.	105			
Total Hardness, ppm as CaCO ₃	300 Max.	51			
Calcium Hardness, ppm as CaCO ₃	200 Max.	44			
Chlorides (Cl ⁻), mg/l	250 Max.	21			
Sulphate (SO ₄), 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 (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) 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			
Turbidity in NTU	4.0 Max.	<1			

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

COMMENTS:	ACTION:
The pH is found satisfactory. ⇨	No action recommended.
The Conductivity/TDS found satisfactory. ⇨	No action recommended.

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

