

Accreditation Scope

Qualitas Material Testing Laboratories, NAL 079
Testing Laboratory (ISO/IEC 17025:2017)

Musaffah, Abu Dhabi, UAE

Issue Date: 05-04-2021
Issue No.: 06

Expiry Date: 04-04-2024

Laboratory locations:

- P1: M-15, Plot No;21, Block C, Stores 5, 7 & 8, Musaffah, Abu Dhabi, UAE.**
P2: Site Lab - WWTP (wastewater treatment plant) – Mirfa, UAE

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Physical	Transformer oil	Appearance	Visual- QMTL-SOP-24 Issue#01 dated 19-3-2016, Rev01 dated 20/08/2018 / ASTM E 2680-01(2014), ASTM D 4176-04(2014)	P1
Physical and Chemical	Transformer oil	Colour L0.5 to D 8.0	ASTM D1500-12(2017)	P1
		Breakdown Voltage 0 Kv-100Kv	ASTM D1816-12(2019)/ASTM D877/ D877M-19/ IEC 60156-2018	
		Moisture Content 1ppm to 2.5 %	IEC 60814-1997-08/ ASTM D 1533-20	
		Dissipation Factor@ 90°C 0.00001onwards	IEC 60247-2004-02	
		Resistivity @90°C 0.00001 onwards	IEC 60247-2004-02	
		Power Factor @ 100°C 0.0001% onwards	ASTM D924-15	
		Acid Number 0.005 onwards	ASTM D974/14 e2	
		Flash Point	ASTM D92-18	
		Density 0.1000 kg/L onwards	ASTM D4052-18a/ ASTM D1298- 12b(2017)	
		Dissolved gas Analysis (DGA)	ASTM D3612C-02 (2017)	

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		0ppm onwards		
		Pour Point Up to -80°C	ASTM D97-17b	
		Total Sulphur 1ppm onwards	ASTM D4294-16e1	
		Corrosive Sulphur	ASTM D1275-15	
		Potentially corrosive Sulphur	IEC 62535-2008-10	
		Furans 10 ppb onwards	IEC 61198-1993-03, ASTM D5837-15 Method A	
Physical	Diesel	Appearance	Visual QMTL-SOP-24 Issue#01 dated 19-3-2016, Rev01 dated 20/08/2018 / ASTM E 2680-01(2014), ASTM D 4176-04(2014)	P1
Physical and Chemical	Diesel	Colour	ASTM D1500-12(2017)	P1
		Density/Specific Gravity 0.1000 kg/L onwards	ASTM D1298/12b(2017) ASTM D4052-18a	
		Kinematic Viscosity@40°C 1cSt onwards	ASTM D445-19a	
		Water Content 0.05% onwards	ASTM D95-13(2018)	
		BS & Water 0.000%onwards	ASTM D2709-16	

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		Acid Number 0.005 mg KOH /g onwards	ASTM D974-14e2	
		Strong Acid Number	ASTM D974-14e2	
		Flash Point 25°C onwards	ASTM D93-20 Procedure A	
		Total Sulphur 1ppm onwards	ASTM D4294-16e1	
		Ash Content 0.001% onwards	ASTM D482-19	
		Distillation 1°C onwards	ASTM D86-20b	
		CCR 0.001%onwards	ASTM D189-06(2019)	
		Cetane Index	ASTM D 4737-10 (2016)	
		Calorific Value (Gross & net)	ASTM D 4868-17	
		Pour Point Up to -80 °C	ASTM D97-17b	
		Cloud Point Up to -80 °C	ASTM D2500-17a	
Physical and Chemical	Asphalt	Flash Point	ASTM D 92-18	P1
		Ductility @ 25°C	ASTM D 113-17	
		Penetration @ 25°C	ASTM D 5-13	

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		Softening Point	ASTM D 36-14e1	
		Specific Gravity @ 60/60°F	ASTM D 70-18a	
		Density @ 15°C	ASTM D 70-18a	
		Solubility in Trichloroethylene	ASTM D 2042-15	
		Kinematic Viscosity @ 135°C, 145°C, 155°C & 165°C	ASTM D 2170/ D 2170M-18	
		Mixing & Compaction Temperature	ASTM D 2493/D 2493M-16	
		Test on residue after RTFOT@163°C-Loss on heating	ASTM D 2872-19	
		Test on residue after RTFOT@163°C Retained penetration as % of original	ASTM D 5-13	
		Test on residue after RTFOT@163°C- Ductility of residue @ 25°C	ASTM D 113-17	
		Density@25°C	ASTM D 1298-12b	P1
		Kinematic Viscosity@25°C	ASTM D 445-19a	
		Sediment	Internal QMTL-SOP-235 Issue 01 dated 06-02-2020, Rev 02 dated 24/03/2021	

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Physical and Chemical	Foam	pH on neat Sample @ 20°C	Internal QMTL- SOP-234 Issue 01 dated 06-02-2020, Rev 01 dated 20/01/2021	
		Concentration	NFPA 11, MSC.1 Circ 1312 (Conductivity method)	
Chemical	Water/ Waste water	pH @ 25 °C 1-14	APHA 4500 H+B, 23 rd edition, 2017	P1
		Oil & Grease 3ppm onwards	APHA 5520B, 23 rd edition, 2017	
Chemical	Water/ Waste water	Total Dissolved Solids From 3mg/l onwards	APHA 2540C, 23 rd edition, 2017	P1
		Total Suspended Solids From 3mg/l onwards	APHA 2540 D, 23 rd edition, 2017	
		Total Solids & Volatile Solids From 3mg/l onwards	APHA 2540G, 23 rd edition, 2017	
		BOD From 3mg/l onwards	APHA 5210D, 23 rd edition, 2017	
		COD From 2mg/l onwards	APHA 5220 D, 23 rd edition, 2017	
		Conductivity @25 °C 0.05µs/cm onwards	APHA 2510B, 23 rd edition, 2017	
		Odor	APHA 2150 A, 23 rd edition, 2017	

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		Colour 1cobalt unit onwards	APHA 2120B, 23 rd edition, 2017	
		Turbidity Range: 0.1unit onwards	APHA 2130B, 23 rd edition, 2017	
Chemical	Water/ Waste water	Chloride Range: 0.1mg/l onwards	APHA 4500 Cl B, 23 rd edition, 2017	P1
		Calcium 2mg/l onwards	APHA 3500Ca B, 23 rd edition, 2017	
		Magnesium 2mg/l onwards	APHA 3500Mg B, 23 rd edition, 2017	
		Total Hardness (as CaCO ₃) 2mg/l onwards	APHA 2340C, 23 rd edition, 2017	
		Calcium Hardness 2mg/l onwards	APHA 2340 B&C, 23 rd edition, 2017	
		Total Alkalinity 2mg/l onwards	APHA 2320B, 23 rd edition, 2017	
		Carbonates & Bicarbonates 2mg/l onwards	APHA 2320B, 23 rd edition, 2017	

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		Free Chlorine 0.01mg/l onwards	APHA 4500 Cl, 23 rd edition, 2017	
		Cadmium 0.003 mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
Chemical	Water/ Waste water	Chromium 0.01mg/l onwards	APHA 3120 B, 23 rd edition, 2017	P1
		Cobalt 0.01mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
		Copper 0.01mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
		Iron 0.01mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
		Lead 0.01mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
		Manganese 0.01mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
		Nickel 0.01mg/l onward	APHA 3120 B, 23 rd edition, 2017	
		Silver 0.01mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
		Zinc 0.01mg/l onwards	APHA 3120 B, 23 rd edition, 2017	

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		Calcium 0.05mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
		Magnesium 0.05mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
		Sodium 0.1mg/l onwards	APHA 3120 B, 23 rd edition, 2017	
Physical	Clean water	Taste	Organoleptic QMTL-SOP-23 Rev 02 20.08.2018 / APHA 2160A, 23 rd edition, 2017	P1
Biological	Water/Waste water (Including Clean water, Potable, drinking water, Chilled water, Groundwater, Swimming pool and marine water)	Total Bacterial Count Heterotrophic plate count 1cfu onwards	APHA 9215D, 23 rd edition, 2017	P1
		Enumeration of Total Coliforms 1 cfu onwards	APHA 9222B, 23 rd edition, 2017	
		Enumeration of Fecal Streptococci 1cfu onwards	APHA 9230C, 23 rd edition, 2017	
		Enumeration of Fecal Coliforms 1cfu onwards	APHA 9222D, 23 rd edition, 2017	
		Enumeration of Pseudomonas aeruginosa 1 cfu onwards	APHA 9213E, 23 rd edition, 2017	

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		Heterotrophic plate count 1 cfu onwards	APHA 9215B, 23 rd edition, 2017	
		Enumeration of E. coli 1 cfu onwards	APHA 9222 H& I, 23 rd edition, 2017	
Biological	Water/Waste water (Including Clean water, Potable, drinking water, Chilled water, Groundwater, Swimming pool and marine water)	Enumeration of Legionella 1cfu onwards	ISO 11731:2017 Matrix A Procedure 5, 7 Matrix B Procedure 8,9,10 Matrix C Procedure 1,14	P1
Biological	Water	Detection of Salmonella	CCFRA 3.1.2 & 3.1.5, 5 th Edition 2007	P1
	Raw, Treated and Partially treated Wastewater	Detection of Campylobacter species	Internal Method QMTL-SOP-220 Issue#01, 12-05-2019	
		Helminth Ova	Internal Method QMTL-SOP-122, Issue#01, 16-01-2018, Rev#01, 04-02-2020	

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Biological	Food (Cereals, Pulses, dairy, Ready to eat foods, Baked Products, Meat, Fish, Spices, Canned vegetables, Juices)	Total Plate Count 1cfu onwards	CCFRA 1.1.1, 5th Edition 2007	P1
		Enumeration of Yeasts & Moulds 1cfu onwards	CCFRA 2.1.1, 5th Edition 2007	P1
		Detection of Campylobacter Species	Internal Method QMTL-SOP-220	
		Enumeration of Enterobacteriaceae 1cfu onwards	CCFRA 2.3.1, 5th Edition 2007	P1
		Enumeration of Coliforms 1cfu onwards	CCFRA 2.2.1, 5th Edition 2007	P1
		Enumeration of E. Coli 1cfu onwards	CCFRA 2.4.2, 5th Edition 2003	
		Detection of E. Coli O157:H7	AOAC 2000.14,	
		Enumeration of Staphylococcus aureus 1cfu onwards	CCFRA 3.5.1, 5th Edition 2007	
		Detection of Salmonella	CCFRA 3.1.2 & 3.1.5, 5th Edition 2007	

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Biological	Food (Cereals, Pulses, dairy, Ready to eat foods, Baked Products, Meat, Fish, Spices, Canned vegetables, Juices)	Detection of Vibrio parahaemolyticus	CCFRA 3.8.1, 5th Edition 2007	P1
		Enumeration of presumptive Bacillus Cereus 1 cfu onwards	CCFRA 3.7.1, 5th Edition 2007	
		Enumeration of Listeria monocytogenes 1cfu onwards	CCFRA 3.2.1 & 3.2.7 5th Edition 2007	
		Enumeration of Clostridium perfringens 1cfu onwards	CCFRA 3.6.1, 5th Edition 2007	
Biological	Swab	Standard Plate Count (Total Viable Count)	CCFRA 1.1.1, 5 th Edition 2007	P1
		Enumeration of Yeasts & Moulds	CCFRA 2.1.1, 5 th Edition 2007	
		Enumeration of Coliforms: Colony count technique	CCFRA 2.2.1, 5 th Edition 2007	
		Enumeration of Enterobacteriaceae: Colony count technique	CCFRA 2.3.1, 5 th Edition 2007	

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		Enumeration of Staphylococcus aureus	CCFRA 3.5.1, 5 th Edition 2007	
		Enumeration of E. coli: Alternative colony count technique using chromogenic medium without membranes	CCFRA 2.4.2: 2003	
Chemical	Food- Cereals, Pulses, Ready to eat food, Baked products, Meat, Fish, Spices, Canned Vegetables, Juices	Moisture 0.01 % onwards	Internal method QMTL-SOP-202 –Rev 01 dated 20/08/2018 based on AOAC methods Online edition- 21 st edition, 2019	P1
		Ash 0.01 % onwards	Internal method QMTL-SOP-203 –Rev 01 dated 20/08/2018 based on AOAC methods Online edition- 21 st edition, 2019	
		Fat 0.01 % onwards	Internal method QMTL-SOP-204-Rev 01 dated 20.08.2018 based on AOAC methods Online edition- 21 st edition, 2019	
		Protein 0.01 % onwards	Internal method QMTL-SOP-205 –Rev 01 dated 20.08.2018 based on AOAC methods Online edition- 21 st edition, 2019	

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Chemical	Food- Cereals, Pulses, Ready to eat food, Baked products, Meat, Fish, Spices, Canned Vegetables, Juices	Carbohydrates 0.01 % onwards	Internal method QMTL-SOP-201 Rev 01 dated 20.08.2018 based on AOAC methods, Online edition- 21 st edition, 2019- Calculation	P1
		Energy	Internal method QMTL-SOP-33 Rev 02 dated 20.08.2018 based on AOAC methods(Online edition- 21 st edition, 2019) (Calculation)	
Environmental	Indoor Air Quality	TSP, PM1, 2.5,4,7,10 1µg/Nm3 onwards	BS EN 481:1993 Internal Method QMTL-SOP-147 Rev 01 dated 20.08.2018	S
		Ammonia -NH3 0-100ppm	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	
Environmental	Indoor Air Quality	Nitrogen dioxide-NO ₂ 0.01ppm onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	S
		Sulphur Dioxide SO ₂ - 0.01ppm onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	

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		Total Volatile Organic compound 0-10000 ppm	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	
		Carbon Dioxide CO ₂ 0.01ppm onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	
		Carbon Monoxide CO 0-1000 ppm onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	
		Hydrogen Sulphide H ₂ S 0.01ppmonwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	
Environmental	Indoor Air Quality	Oxygen-O ₂ 0-25% onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	S
		Ozone-O ₃ 0-1 ppm onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	
		Wet bulb Temperature 1°C onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	

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		Formaldehyde 1ppb onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	
		Temperature Range:1°C onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	
Environmental	Indoor Air Quality	Relative Humidity Range:1%onwards	BS EN 60079-29-2:2015, Internal Method QMTL SOP-146 Rev 01 dated 20.08.2018	S
Microbial	Indoor Air Quality	Air borne contamination - Total Bacterial Count 1cfu onwards	ISO 14698-1:2003, ISO 14698- 2:2003, CCFRA 1.1.1-2007, 5th Edition	S & P1
		Air Borne Contamination - Yeasts and Moulds 1cfu onwards	ISO 14698-1:2003, ISO 14698- 2:2003, CCFRA 2.1.1-2007, 5th Edition	
		Total Bacterial Count 1cfu onwards	CCFRA 1.1.1-2007, 5th Edition	
		Yeasts and Moulds 1cfu onwards	CCFRA 2.1.1-2007, 5th Edition	
Environmental	Indoor Air Quality	Temperature 1°COnwards	ISO 7726:1998	S
		Relative Humidity 1%onwards	ISO 7726:1998	

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		Occupational Noise level 30-130dB onwards	ISO 1996-2:2017	
		Illuminance 0-400000 Lux	BS EN 12464-1:2011	
Environmental	Outdoor Air Quality	Nitrogen dioxide-NO ₂	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	S
		Sulphur Dioxide- SO ₂	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	
		NO _x	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	
		Hydrogen Sulphide- H ₂ S	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	
		Carbon Monoxide- CO	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	
		Carbon dioxide- CO ₂	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	
		NO	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	
		VOCs	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	
		Ozone -O ₃	BSEN 60079- Part 29-2 Internal method QMTL-SOP-224	

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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
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		PM 2.5 5µg/M3 onwards	BS EN 12341:2014 Internal Method QMTL-SOP-149 Rev 01 dated 20.08.2018	
		Ammonia-NH ₃ 0-100ppm	BS EN 60079-29-2:2015, Internal Method QMTL-SOP-150 Rev 01 dated 20.08.2018	
Environmental	Outdoor Air Quality	Nitrogen dioxide-NO ₂ 5µg/m ³	BS EN 60079-29-2:2015, Internal Method QMTL-SOP-151 Rev 01 dated 20.08.2018	S
		Sulphur Dioxide-SO ₂ 5µg/m ³	BS EN 60079-29-2:2015, Internal Method QMTL-SOP-152 Rev 01 dated 20.08.2018	
		Ozone-O ₃ 0-1ppm	BS EN 60079-29-2:2015, Internal Method QMTL-SOP-153 Rev 01 dated 20.08.2018	
		Wind speed	Internal Method QMTL-SOP-155 Rev 03 dated 02/06/2019 based on EPA-454/R-99-005:2000	
		Wind Direction	Internal Method QMTL-SOP-155 Rev 03 dated 02/06/2019 based on EPA-454/R-99-005:2000	

Accreditation Scope

Qualitas Material Testing Laboratories, NAL 079
Testing Laboratory (ISO/IEC 17025:2017)

Musaffah, Abu Dhabi, UAE

Issue Date: 05-04-2021
Issue No.: 06

Expiry Date: 04-04-2024

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Environmental	Outdoor Air Quality	Precipitation	Internal Method QMTL-SOP-155 Rev 03 dated 02/06/2019 based on EPA-454/R-99-005:2000	
		Relative Humidity 10% onwards	Internal Method QMTL-SOP-155 Rev 03 dated 02/06/2019 based on EPA-454/R-99-005:2000	
		Temperature 10°C onwards	Internal Method QMTL-SOP-155 Rev 03 dated 02/06/2019 based on EPA-454/R-99-005:2000	
		Solar Radiation Sensor	Internal Method QMTL-SOP-155 Rev 03 dated 02/06/2019 based on EPA-454/R-99-005:2000	
		30-130 dBNoise Monitoring	ISO 1996-2:2017	
Environmental	Clean Room Validation	Airflow velocity 1-80 m/s	ISO 14644-1:2015, ISO 14644-2:2015, ISO 14644-3: 2005	S
		Differential pressure test - Containment leak/Air pressure difference measurement 0-5000Pa	ISO 14644-1:2015, ISO 14644- 2:2015, ISO 14644- 3:2005	
		Filter Integrity -Installed filter Leakage	ISO 14644-1:2015, ISO 14644- 2:2015, ISO 14644- 3:2005	
		Airflow direction and visualization	ISO 14644-1:2015, ISO 14644-2:2015, ISO 14644-3:2005	

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		Airborne particle count for classification and test measurement 0.5-100±10%µm	ISO 14644-1:2015, ISO 14644-2:2015, ISO 14644-3:2005	
		Air Volume	ISO 14644-1:2015, ISO 14644-2:2015, ISO 14644-3:2005	
Environmental	Clean Room Validation	Temperature 1°C onwards	ISO 7726:1998	S
		Relative Humidity 1% onwards	ISO 7726: 1998	
		Occupational Noise level 30-130dB onwards	ISO 1996-2:2017	
		Illuminance 0-400000Lux	BS EN 12464-1:2011	
		Air borne contamination - Total Bacterial Count 1 cfu onwards	ISO 14698-1:2003, ISO 14698-2:2003, CCFRA 1.1.1-2007, 5th Edition	S & P1
		Air borne contamination - Yeast and Mould 1 cfu onwards	ISO 14698-1:2003, ISO 14698-2:2003, CCFRA 1.1.1-2007, 5th Edition CCFRA 2.1.1-2007, 5th Edition	

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Environmental	Stack emission monitoring	Temperature (Ambient) Upto 600 K	US EPA Method 2:2017	S
		Temperature(Stack) Upto 999.9°C	US EPA Method 2:2017	
		Stack Gas Velocity 0-99.9m/s	US EPA Method 2:2017	
		Volumetric Flow rate	US EPA Method 2:2017	
		Moisture 0.1%onwards	US EPA Method 4:2017	S
		5ug per Particulate Mater m3	US EPA Method 17:2017	
		Oxygen 0-25%	US EPA CTM 30:1997, US EPA CTM 34:1999	
Environmental	Stack emission monitoring	Carbon Dioxide 0-20%	US EPA CTM 30:1997, US EPA CTM 34:1999	S
		Carbon Monoxide 0-15%	US EPA CTM 30:1997, US EPA CTM 34:1999	
		Sulphur dioxide 0-4000ppm	QMTL-SOP-214 Rev 00 date:05/03/2019	
		NOx 0-5000ppm	US EPA CTM 30:1997, US EPA CTM 34:1999	
		Nitrogen Dioxide	US EPA CTM 30:1997, US EPA CTM 34:1999	

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		0-1000ppm		
		TVOC 0-200PPM	US EPA Method 25B:2017	
		Hydrocarbons 0-3%	QMTL-SOP-214 Rev 00 date:05/03/2019	
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	pH	APHA 4500 H+B 23rd Edition	P2
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Conductivity	APAH 2510 B 23rd Edition	P2
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Total Suspended Solids (TSS) @ 103° C - 105° C	APHA 2540 D 23rd Edition	P2
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Total Dissolved Solids (TDS) @ 180°C	APHA 2540 C 23rd Edition	P2
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Phosphorous	APHA 4500 P C 23rd Edition	P2
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Alkalinity	APHA 2320 B 23rd Edition	P2

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Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Ammonia	APHA -4500 NH3-F 23rd Edition	P2
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Biological Oxygen Demand (BOD)	APHA 5210 B 23rd Edition	P2
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Oil & Grease	APHA 5520 B 23rd Edition	P2
Chemical Testing	Waste water/ Treated Water/ Raw sewage water	Chemical Oxygen Demand (COD)	APHA 5520 D 23rd Edition	P2
END				