



Lonestar Technical Services (L.L.C.)

(Engineering, Inspection, Testing & Lab Services)

P.O. Box: 8817, Building # DY34
 Inside Dubai Ship Docking Yard
 Al Jadaf, Dubai - United Arab Emirates

Tel: +971 4 324 3888/Fax: +971 4 324 3682
 Email: Testing@Lonestar-Lab.com
 Website: www.Lonestar-Lab.com

Preliminary Report

Analytical Chemistry Section Stack Monitoring Report- Gases

DATE	11-MAY-2020	SAMPLE#	300 - 20-07075	REPORT#	CR62316S1	REVISION#	0	JOB#	94781
CLIENT	VIQA RECYCLING PO BOX:1100 UMM AL QAIWAIN UNITED ARAB EMIRATES				ATTENTION	Justin Joseph			
					ANALYSIS DATE	11-MAY-2020			
					ANALYST	BDF			
					TEST METHOD	As Below			
Sample Description	Stationary Source Monitoring. Primary Location: VIQA Recycling, Umm Al Quain. Secondary Location: Incinerator Stack- Processing Material medical waste Sampling Date & Time:05-May-2020 @ 08:30 Hrs to 12:30 Hrs.								
SAMPLING DETAILS	AMBIENT TEMP.	32.2°C			METHOD	US EPA Emission Measurement Center CFR-Promulgated / Conditional Test Method'			
	SAMPLE DEVICE	Testo t350 XL-11220/VSS001-12968			SAMPLED BY	Lonestar/BDU/BEB			

TEST	METHODOLOGY	UAE FEDERAL LAW LIMITS	RESULT
TSP, mg/Nm ³	US EPA EMC Method 17	10	2.5
* Carbon monoxide, mg/Nm ³	US EPA CTM 030	50	36.4
* Oxides of Nitrogen, mg/Nm ³	US EPA CTM 030	200	31.3
* Sulfur dioxide, mg/Nm ³	US EPA Method 6C	50	8.7
Total Volatile Organic Compound, mg/Nm ³	US EPA EMC Method 18	10	0.7
Hydrogen Chloride, mg/Nm ³	US EPA EMC Method 26	10	3.2
Hydrogen Fluoride, mg/Nm ³	US EPA EMC Method # 26	1	0.28
Cadmium and Thallium, mg/Nm ³	US EPA EMC Method 29	0.1	**0.0006
Mercury, mg/Nm ³	US EPA Method - 29	0.1	**0.0002
Antimony, ppb	US EPA Method - 29	1	**0.4314
Arsenic, mg/Nm ³	US EPA EMC Method # 26	1	**0.4314
Chromium, mg/Nm ³	US EPA EMC Method 29	1	**0.4314
Cobalt, mg/Nm ³	US EPA EMC Method 29	1	**0.4314
Copper, mg/Nm ³	US EPA EMC Method 29	1	**0.4314
Manganese, mg/Nm ³	US EPA EMC Method 29	1	**0.4314
Tin, mg/Nm ³	US EPA EMC Method 29	1	**0.4314
Nickel, mg/Nm ³	US EPA EMC Method 29	1	**0.4314
Vanadium, mg/Nm ³	US EPA EMC Method 29	1	**0.4314
Lead, mg/Nm ³	US EPA EMC Method 29	1	**0.4314
Dioxins & Furans, ng/Nm ³	US EPA Method # 23	-	To follow

Note: "The monitored parameters are compared with UAE Federal Law NO. (24) of 1999 for the protection and development of the environment implemented through Cabinet Decree No. (12) of 2006 Regarding the Regulation Concerning Protection of Air from Pollution."

"The results reported above represents the value of emission which prevailed during the monitoring of the stack/stationary source operational at that particular time and condition."

** = Value reported is below the PQL, i.e. Practical Quantitation Limit.

Approved by		Checked by	
Name	M.Mubin Shaikh	Name	Lakshmana Perumal
Designation	Chemistry Manager	Designation	Site Coordinator
Signature		Signature	

QC SEAL MANDATORY

* DAC Accredited Tests





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	SAMPLE DEVICE	Testo t350 XL-11220/VSS001-12968			SAMPLED BY	Lonestar/BDU/BEB			

TEST	METHODOLOGY	RESULT
* Ambient Temperature, °C	US EPA EMC Method 2	32.2
* Internal Diameter of Stack, m	US EPA EMC Method 2	0.6
* Area of Stack, m ²	Calculated	0.2826
* Stack Gas Temperature, °K	US EPA EMC Method 2	636.0
* Stack Gas Velocity, m/sec	US EPA EMC Method 2	27.3
* Molecular Weight After Correction, Ms	US EPA EMC Method 2	28.6
* Area of Nozzle, m ²	US EPA EMC Method 17	0.0000317
* Velocity Constant	US EPA EMC Method 2	34.96
* S-Type Pitot Tube Constant	US EPA EMC Method 2	0.836
* Absolute Stack Gas Pressure, mmHg	US EPA EMC Method 2	760.2
* Absolute Ambient Pressure, mmHg	US EPA EMC Method 2	760
* Absolute Ambient Temperature, °K	US EPA EMC Method 2	298
* Suction Pressure at Meter, mmHg	US EPA EMC Method 2	759
* Volume of gas sampled at meter condition, m ³	US EPA EMC Method 2	1.5
* Stack Static Pressure, mmHg	US EPA EMC Method 2	0.20
* Total Sampling Time, Min	US EPA EMC Method 2	60
* Moisture Content in Stack Gas, %	US EPA EMC Method 2	3.25



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LB-019-TEST



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Sample Description
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 Primary Location: VIQA Recycling, Umm Al Quain.
 Secondary Location: Incinerator Stack- Processing Material medical waste
 Sampling Date & Time:05-May-2020 @ 08:30 Hrs to 12:30 Hrs.

TEST	METHODOLOGY	RESULT
* Stack Gas Volumetric Flow Rate, Nm ³ /Hr	US EPA EMC Method 2	13003
* Isokinetic Sampling Rate at Meter Condition, LPM	US EPA EMC Method 17	25
* Standard Volume of Gas (Dry), Nm ³	US EPA EMC Method 17	1.46
* Standard Volume of Gas (Wet), Nm ³	US EPA EMC Method 17	2.00

Note: "The monitored parameters are compared with UAE Federal Law NO. (24) of 1999 for the protection and development of the environment implemented through Cabinet Decree No. (12) of 2006 Regarding the Regulation Concerning Protection of Air from Pollution."

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Name	M.Mubin Shaikh	Name	Lakshmana Perumal
Designation	Chemistry Manager	Designation	Site Coordinator
Signature		Signature	

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