



**Richard E. Dunn, Director**

**Air Protection Branch**

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**MEMORANDUM**

**TO:** Sean Taylor  
**THROUGH:** Daniel McCain  
**FROM:** Ray Shen  
**SUBJECT:** SOURCE TEST REPORT REVIEW

The following test has been reviewed and was conducted in an acceptable fashion for the purpose intended.

<b>COMPANY NAME</b>	Sterilization Services of Georgia				
<b>COMPANY ADDRESS</b>	Atlanta, GA				
<b>SOURCE TESTED</b>	Fugitive Emissions (FE2 AAT Scrubber)				
<b>POLLUTANT DETERMINED</b>	Ethylene Oxide				
<b>REPORT REVIEWED BY</b>	Ray Shen				
<b>TEST WITNESSED BY</b>	Bob Scott, Ray Shen				
<b>DATE(S) OF TEST</b>	April 22, 2022				
<b>DATE RECEIVED BY APB</b>	June 2, 2022				
<b>APPLICABLE REQUIREMENT</b>	Permit 3841-121-0010-S-03-0				
<b>MAXIMUM EXPECTED OPERATING CAPACITY</b>					
<b>OPERATING CAPACITY</b>					
<b>ALLOWABLE EMISSION RATE(S)</b>	N/A				
<b>CONTROL EQUIPMENT AND MONITORING DATA</b>	FE2 AAT Scrubber includes (8) dry bed cells (2000 ACFM per dry bed cell), an exhaust fan, a motorized wall vent and a pressure differential sensor. It captured and reduced fugitive EtO emissions from Zone 2 and Zone 3. See test report for site map.				
<b>TEST RUN #</b>		<b>1</b>	<b>2</b>	<b>4</b>	<b>AVERAGE</b>
<b>GAS TEMPERATURE</b> (°F)	<b>INLET</b>	71.4	72.4	73.2	
	<b>OUTLET</b>	100	102	102	
<b>GAS MOISTURE (%)</b>	<b>INLET</b>	1.54	1.52	1.56	
	<b>OUTLET</b>	1.70	1.68	1.69	
<b>GAS FLOW RATE</b> (ACFM)	<b>INLET</b>	2116	2003	1979	
	<b>OUTLET</b>	13369	13291	13294	
<b>GAS FLOW RATE</b> (DSCFM)	<b>INLET</b>	2042	1928	1902	
	<b>OUTLET</b>	12263	12150	12144	
<b>POLLUTANT CONCENTRATION</b> (PPM)	<b>INLET</b>	0.970	1.12	1.67	1.25
	<b>OUTLET</b>	0.0202	0.0198	0.0564	0.0322
<b>EMISSION RATE</b> (LB/HR)	<b>INLET</b>	0.109	0.119	0.174	0.134
	<b>OUTLET</b>	0.00170	0.00165	0.00470	0.00268
<b>DESTRUCTION EFFICIENCY (%)</b>	97.590				
<b>OTHER INFORMATION</b>	There is no required destruction efficiency for fugitive emission in air permit. Inlet emission rate: Multiply one (1) inlet dry cell duct by eight (8) to calculate total inlet emission rate Outlet results of Run 1 and Run2 were below the minimum detectable limit. The minimum detection limit was used to calculate the concentration and outlet emission rate for Run 1 and Run 2.				

cc: Sean Taylor  
AIRS Number: 121-00010

Reference Number: 202200486

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