



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Air Protection Branch

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MEMORANDUM:

TO: Stephen Damaske
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.

COMPANY NAME	Sterilization Services of Georgia
COMPANY LOCATION	Atlanta, GA
SOURCE TESTED	Anquil Catalytic Oxidizer (Stack ID EP5)
POLLUTANT DETERMINED	Ethylene Oxide
REPORT REVIEWED BY	Ray Shen
TEST WITNESSED BY	Marie Miller, Ray Shen
DATE(S) OF TEST	May 12, 2020
DATE RECEIVED BY APB	July 16, 2020
MAXIMUM EXPECTED OPERATING CAPACITY	220 UNITS
OPERATING CAPACITY	63 UNITS
ALLOWABLE EMISSION RATE	99.0 % DRE
APPLICABLE REGULATION	Permit 3841-121-0010-S-03-0; Condition 2.5 and 40 CFR 63.362
CONTROL EQUIPMENT AND MONITORING DATA	Catalytic Oxidizer's bed temp. = 286 degree F. See Appendix K of test report.

TEST RUN #		1	2	3	AVERAGE	
GAS TEMPERATURE (°F)	Inlet	105.5	108.6	110.1		
	Outlet	187.7	189.4	190.5		
GAS MOISTURE (%)	Inlet	0.85	0.80	0.86		
	Outlet	1.10	1.05	1.11		
GAS FLOW RATE (ACFM)	Inlet	10020	10147	10153		
	Outlet	11954	12008	12023		
GAS FLOW RATE (DSCFM)	Inlet	9029	9097	9073		
	Outlet	9483	9505	9496		
POLLUTANT CONCENTRATION (PPM)	Inlet	21.6	17.9	15.6		18.4
	Outlet	<0.0293	<0.0286	<0.0281		0.0287
EMISSION RATE (LB/HR)	Inlet	1.34	1.12	0.972	1.144	
	Outlet	<0.00191	<0.00187	<0.00183	0.00187	

DESTRUCTION EFFICIENCY (%)	99.83
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OTHER INFORMATION

Catalysts was replaced in 4/2020.
Three Aeration Rooms (AR) are connected to this oxidizer.

The outlet results for all three runs were below the minimum detection limit. The minimum detection limit was used to calculate the outlet concentration and emission rate values for all 3 runs.