

Richard E. Dunn, Director

Air Protection Branch

4244 International Parkway, Suite 120 Atlanta, Georgia 30354 404-363-7000

MEMORANDUM:

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	BD (Becton, Dickinson and Company)
COMPANY LOCATION	Madison, GA
SOURCE TESTED	Dry Bed System 1 (SYS1)
POLLUTANT DETERMINED	Ethylene Oxide
REPORT REVIEWED BY	Ray Shen
TEST WITNESSED BY	Ray Shen, Marcus Cureton
DATE(S) OF TEST	June 30, 2020
DATE RECEIVED BY APB	September 21, 2020
APPLICABLE REGULATION	EPD Consent Order dated October 28, 2019

MEMORANDUM

System One (SYS1) captures potential fugitive emissions from the facility's seven Sterilization Vessel Rooms (VRM1, VRM2, VRM3, VRM4, VRM5, VRM6, and VRM7), the Vessel to Aeration Transfer Corridors (UCO1 and UCO2), and the EO Dispensing Rooms (DRM1 and DRM2). SYS1 consists of (18) Dry Beds (DB). Pressure drop across each DB was approximately 1.6 inches H2O during testing.

Samples were collected into Summa Canisters in accordance with EPA Method TO-15 (GC/MS in Selective Ion Monitoring (SIM) Mode) at inlet and outlet of an AAT Dry Bed System. Sample duration was (4) hours. Analysis was performed by Eurofins, an independent lab. Results were reported in ug/M3 (ppb).

136 pallets were in seven Sterilization Vessel Rooms during testing.

Ethylene Oxide (EtO)

Concentration (micrograms/m³) Flow (dscfm) Mass rate (lb./hr.)

Inlet 180 19,323 0.01303 0.30 18,074 0.00002 Outlet

DRE of Dry Bed System (SYS1) is 99.85%.

cc: Sean Taylor Reference Number: 202001019 Printed: 11/16/2020

AIRS Number: 21100021