



DIVISION OF  
CORPORATION FINANCE

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549-4631

September 8, 2010

Mr. J. Michael Anderson  
Chief Financial Officer  
Exterran Holdings, Inc.  
16666 Northchase Drive  
Houston, TX 77060

**RE: Exterran Holdings, Inc.**  
**Form 10-K for the Fiscal Year Ended December 31, 2009**  
**Filed February 25, 2010**  
**Definitive Proxy Statement on Schedule 14A**  
**Filed March 29, 2010**  
**Form 10-Q for the Quarterly Period Ended June 30, 2010**  
**Filed August 5, 2010**  
**File No. 001-33666**

Dear Mr. Anderson:

We have completed our review of your Form 10-K and related filings and have no further comments at this time.

Sincerely,

Pamela A. Long  
Assistant Director