

LABORATORY ANALYSIS REPORT

DATE: 15-May-2014
CLIENT: Harmsco Filtration Products
PO Box 14066
North Palm Beach, FL 33408

PAGE: 1 Of 1
PROJECT NO.: 2664
REPORT NO.: 00
COLLECTED BY: IBR
PROJECT REC'D: 16-April-2014

CONTACT: Cyndi Benson

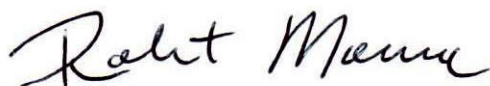
Dear Ms. Benson:

Enclosed, please find the final laboratory analysis report regarding the evaluation of **Harmsco Housing MUNI 90-MP** and filters **HC/90-LT2**. Testing was performed in conformance to EPA LT2 Guidelines per IBR TM LT2 Rev B 3-Mar-11 with Fluoro-Max 2.0 micron latex spheres at a flow rate of 65 GPM.

This analysis was subcontracted to IBR Laboratories (Project 15047) and is not part of Pace Product Testing's ISO 17025 accreditation.

Pace Analytical Services, Inc. appreciates the opportunity to provide you with this product testing service. We value your feedback, would you please take a few minutes to access our customer satisfaction survey at: <http://www.pacelabs.com/my-account/customer-survey.html> . If you have any questions or comments, please feel free to call me at 612.656.1144 or email Robert.Monsour@pacelabs.com

Sincerely,



Robert Monsour
Project Manager

Enclosure (IBR Test Report)



TEST REPORT

Test Method: Conformance to EPA LT2 Guidelines per IBR TM LT2 Rev B 3-Mar-11 challenged for 2 µm
 Performed For: Pace Laboratories Contact: R. Monsour
 IBR Test No: 15047 Location: Minneapolis, MN
 Test Date: 9-May-14 Project: 2664

Equipment: Olympus BX-40 Episcopic Microscope
 Yokogawa AM204DN sn F145KA141129 flow meter Cal Due: 3-Apr-15
 Conditioning: 10 minute flush
 Contaminant: Efficiency- Latex spheres, Fluoro-Max 2.0 micron Lot: 36301
 Contaminant: Capacity: ISO 12103-1 A2 Fine Analysis 12080F
 Test Flow (same as rated flow): 65 gpm

Product Information and Description:

Harmsco Filtration Products, 12"D x 28"H - filter and housing
 Pace sample ID: 037897 Project 2664
 Pace sample ID: 037898 Project 2664

Date Received: 21-Apr-14 Source: Pace Labs

Pace sample ID: 037897 Project 2664

Differential Pressure	Influent	Effluent	% Reduction	Log Reduction
Initial- 1.5 psid	11300	0.3	99.997	4.53
15 psid	10100	3.0	99.970	3.53
30 psid	11400	1.7	99.985	3.84

Pace sample ID: 037898 Project 2664

Differential Pressure	Influent	Effluent	% Reduction	Log Reduction
Initial (2.4 psid)	9300	0.6	99.994	4.19
15 psid	9000	0.6	99.993	4.18
30 psid	12200	2.3	99.981	3.72

Performance Criteria/Acceptance:

The units must reduce the arithmetic mean of the influent concentration by 3 log.

	ID: 037897 Project 2664	ID: 037898 Project 2664	
Actual minimum log reduction:	3.53	3.72	PASS

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 1/1 Performed By: CYL Data Location: CYL-14

Reviewed By: 
 Susan H. Goldsmith, Director of Technical Services

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