



# MATERIALS TESTING, INC.

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871 STAFFORD ROAD • EAGLEVILLE, CONNECTICUT 06268 • (860)487-1972

NVLAP #0320  
Specific Scope Accredited

DATE: 12-12-05

REPORT NO: S-1000

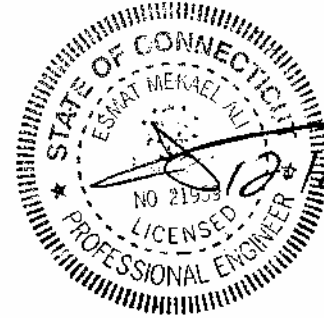
CLIENT: Beacon Point Marina  
49 River Road  
Cos Cob, CT 06807

PROJECT: Client's Information

SUBJECT: WATER ANALYSIS

Material: Water samples

Source: Sample 1, wastewater collection basin  
Sample 2, (effluent) wastewater after treatment  
Sampled by MTI



Attached, find laboratory test analysis results performed by our subcontractor.

Materials Testing, Inc.

William J. Soucy

1cc: Client  
Attachments (3)

lgs

# BARON CONSULTING CO.

HARRY AGAHIGIAN, Ph.D., DIRECTOR

analytical services

P.O. BOX 3337, MILFORD, CT 06460

December 8, 2005

Mr. William Soucy  
Materials Testing Inc.  
200 Rowe Avenue  
Milford, CT 06460

RE: Analysis of 2 water samples received 11/23/05  
Project: Beacon Point Marina  
BC# 142684

	Sample 1	Sample 2	Date Analyzed	Tech	Method #
Oil & Grease/total	1.9	1.3	11/27/05	SF	1664
pH @ 20°C	6.63	7.88	11/23/05	ERT	150.1
COD	12,020	940	11/28/05	RO	410.4
TSS	410	45	11/30/05	RO	160.2
Phosphorus, total	15.8	14.1	12/05/05	RR	365.2
TKN	3.71	0.29	12/08/05	RR	351.3
Nitrogen, Nitrate	4.09	0.05	11/23/05	RO	300.0
Copper	14.0	3.14	11/28/05	AP	200.7
Zinc	5.13	1.23	11/28/05	AP	200.7
Lead	ND<0.1	ND<0.1	11/23/05	AP	200.7
Chromium	ND<0.05	ND<0.05	11/23/04	AP	200.7

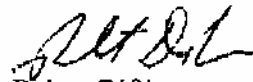
Above results are in mg/L unless otherwise indicated  
ND< = None detected less than

In addition the samples were analyzed on 11/28/05 by RD per EPA Method 624. The results are listed on the following pages in ppb (ug/L).

Please review the data and contact us if you have any questions or wish more information.

RD/dc

Reviewed by:



Robert DiCicco  
Chemist

This report is submitted with the understanding that it is not to be reproduced for advertising or other purposes over our signature without express written permission from us.  
We do not accept any liability concerning the use of these results.

NOT RESPONSIBLE FOR SAMPLES LEFT OVER 30 DAYS AFTER RECEIPT OF REPORT.

Connecticut Public Health Laboratory No. 0440 EPA Number CT015

AIHA and AIHA ELLAP Accredited Laboratory No. 6951

LABORATORY LOCATED AT 273 PEPE'S FARM ROAD, MILFORD, CT 06460 (203) 874-5678 FAX: (203) 874-7863

EPA METHOD 624

BC# 142684  
Sample: Sample 1

Results are in ppb.  
ND = None Detected

Benzene	2.0
Bromodichloromethane	ND < 2.0
Bromoform	ND < 2.0
Bromomethane	ND < 5.0
Carbon tetrachloride	ND < 2.0
Chlorobenzene	ND < 2.0
Chloroethane	ND < 5.0
Chloroform	ND < 5.0
Chloromethane	ND < 5.0
Dibromochloromethane	ND < 2.0
1,2-Dichlorobenzene	ND < 2.0
1,3-Dichlorobenzene	ND < 2.0
1,4-Dichlorobenzene	ND < 2.0
Dichlorodifluoromethane	ND < 2.0
1,1-Dichloroethane	ND < 2.0
1,2-Dichloroethane	ND < 2.0
1,1-Dichloroethene	ND < 2.0
cis-1,2-Dichloroethylene	ND < 2.0
trans-1,2-Dichloroethene	ND < 2.0
1,2-Dichloropropane	ND < 2.0
cis-1,3-Dichloropropene	ND < 2.0
trans-1,3-Dichloropropene	ND < 2.0
Ethylbenzene	ND < 2.0
Methylene chloride	ND < 5.0
1,1,2,2-Tetrachloroethane	ND < 2.0
Tetrachloroethene	ND < 2.0
Toluene	9.8
1,1,1-Trichloroethane	ND < 2.0
1,1,2-Trichloroethane	ND < 2.0
Trichloroethene	ND < 2.0
Trichlorofluoromethane	ND < 5.0
Vinyl chloride	ND < 5.0
Xylenes	7.4

EPA METHOD 624

BC# 142684

Sample: Sample 2

Results are in ppb.

ND = None Detected

Benzene	4.1
Bromodichloromethane	ND < 2.0
Bromoform	ND < 2.0
Bromomethane	ND < 5.0
Carbon tetrachloride	ND < 2.0
Chlorobenzene	3.0
Chloroethane	ND < 5.0
Chloroform	ND < 5.0
Chloromethane	ND < 5.0
Dibromochloromethane	ND < 2.0
1,2-Dichlorobenzene	ND < 2.0
1,3-Dichlorobenzene	ND < 2.0
1,4-Dichlorobenzene	ND < 2.0
Dichlorodifluoromethane	ND < 2.0
1,1-Dichloroethane	3.8
1,2-Dichloroethane	ND < 2.0
1,1-Dichloroethene	ND < 2.0
cis-1,2-Dichloroethylene	ND < 2.0
trans-1,2-Dichloroethene	ND < 2.0
1,2-Dichloropropane	ND < 2.0
cis-1,3-Dichloropropene	ND < 2.0
trans-1,3-Dichloropropene	ND < 2.0
Ethylbenzene	ND < 2.0
Methylene chloride	ND < 5.0
1,1,2,2-Tetrachloroethane	ND < 2.0
Tetrachloroethene	ND < 2.0
Toluene	3.9
1,1,1-Trichloroethane	ND < 2.0
1,1,2-Trichloroethane	ND < 2.0
Trichloroethene	3.1
Trichlorofluoromethane	ND < 5.0
Vinyl chloride	ND < 5.0
Xylenes	ND < 2.0

## Summary Page

### 1. Estimate of maximum gallons per day discharged into sanitary sewer.

On average we haul and power wash 7 to 10 boats per day. The power washer dispenses 4 gallons per minute and it averages approximately 10 minutes to power wash each boat. Therefore, the maximum per day discharged into sanitary sewer would be  $10 \text{ (boats)} \times 10 \text{ (minutes per boat)} \times 4 \text{ (gallons per minute)} = 400$  gallons.

### 2. Estimate of targeted wastewater kept out of environment.

We haul and power wash approximately 300 boats per year. Using the formula above, this would equate to 12,000 gallons treated through the filtration system per year.

### 3. Effectiveness of the project.

The filtration system works very well and based on the water analysis from Material Testing Labs, a substantial amount of harmful environmental constituents will be dramatically reduced. The one problem experienced with the system was freezing of the filter paper in below freezing weather. We will correct the problem by enclosing the entire system, adding heat, thereby keeping the initial holding tank from freezing.