

## Testing on Total Petroleum Hydrocarbons (TPH)

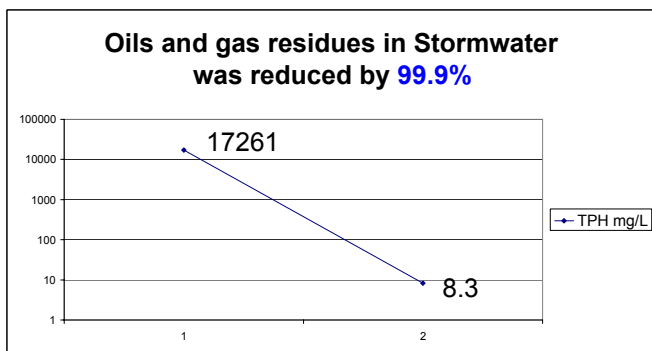
The purpose of the test was to determine if Fablite filtration media would be effective on fuel residues, oils, grease and other petroleum products.

In both tests the Fablite media reduced TPH levels by over 99.9%

### NYS Thruway Authority - Water with visible oil sheen

This sample was collected from a drainage structure located adjacent to one of the toll booth islands.

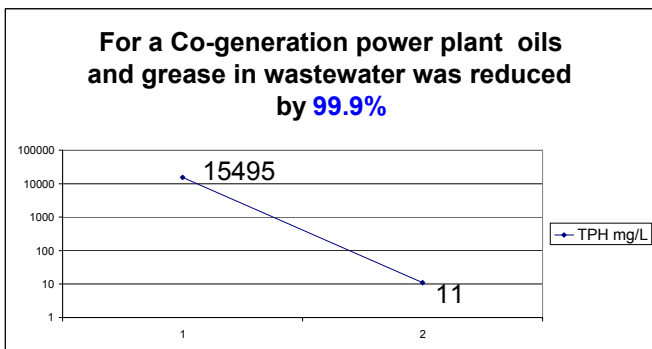
Laboratory	Sample description	Sample ID	Matrix	Test	Date		Petroleum
							TPH mg/L
Pedneault	Waste water untreated	01060396-001	Liquid	418.1	6/27/2001	Raw	17261
Pedneault	Waste water filtered	01060396-001	Liquid	418.1	6/27/2001	Treated	8.3



### Co-generation plant - Brooklyn

This is a sample of rinse water collected at the site following routine maintenance on a large piece of equipment.

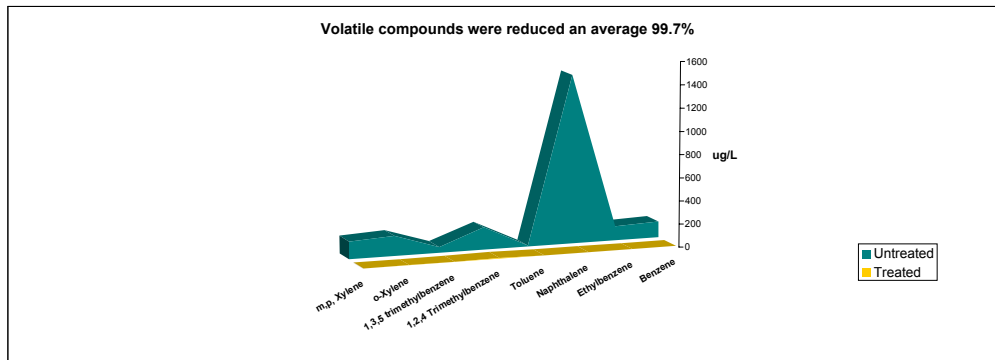
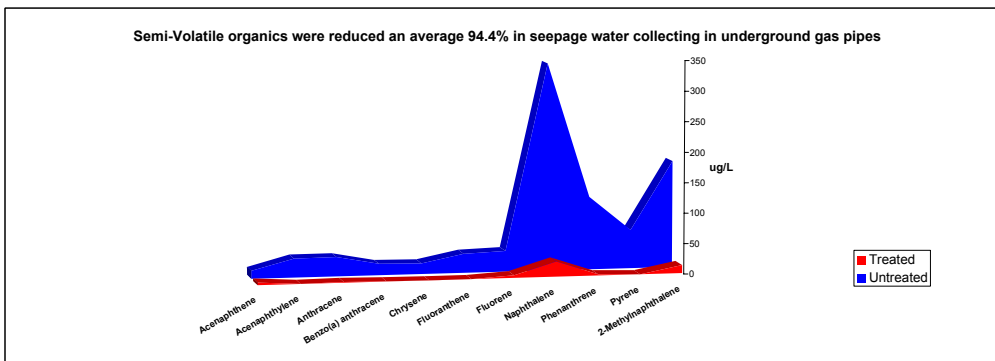
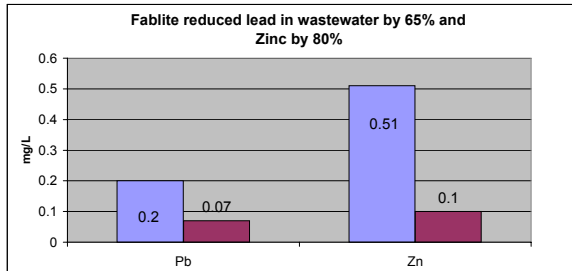
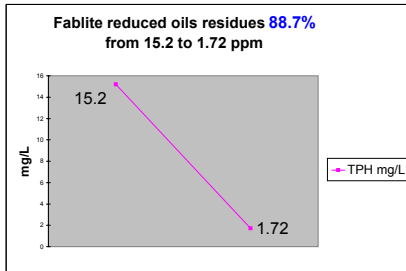
Laboratory	Sample description	Sample ID	Matrix	Test	Date		Petroleum
							TPH mg/L
Pedneault	Prior to filtration	01110144-001	Liquid	418.1	11/9/2001	Raw	15495
Pedneault	After filtration	01110144-002	Liquid	418.1	11/9/2001	Treated	11



## Public Utility Co. - Water from retired underground gas lines

Surface water run-off infiltrating down through the soil had found its way into retired underground natural gas pipelines. Before pumping the water out and capping the pipes, the company had the water analyzed to determine its disposal options.

The collected water was tested against the EPA's Priority Pollutant list. The charts below record only those compounds having detectable concentrations.



Laboratory	Sample description	Sample ID	Matrix	Test	Date	Petroleum TPH mg/L	Metals mg/L	
							Pb	Zn
<b>Effectiveness - Hydrocarbons and Heavy metals</b>								
Pedneault	Testing for Priority pollutants - Raw	01100426-001	Liquid	Varies	10/22/2001	Untreated	15.2	0.2 0.51
Pedneault	Treated water	01100426-004	Liquid	Varies	10/22/2001	Treated	1.72	0.07 0.1

Laboratory	Sample description	Sample ID	Matrix	Test	Date	Semi-Volatiles ug/L											
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Chrysene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	2-Methylnaphthalene	
<b>Effectiveness - Semi volatiles and volatile organics</b>																	
Pedneault	Testing for Priority pollutants - Raw	01100426-001	Liquid	Varies	10/22/2001	Untreated	13	31.4	31.9	18.9	17.7	31.7	34.4	341	120	63.7	176
Pedneault	Treated water	01100426-004	Liquid	Varies	10/22/2001	Treated	3.81	<1.0	1.16	<1.0	<1.0	<1.0	4.35	25	1.99	<1.0	13.4

Laboratory	Sample description	Sample ID	Matrix	Test	Date	Volatiles ug/L								
						Benzene	Ethylbenzene	Naphthalene	Toluene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	o-Xylene	m,p. Xylene	
<b>Effectiveness - Semi volatiles and volatile organics</b>														
Pedneault	Testing for Priority pollutants - Raw	01100426-001	Liquid	Varies	10/22/2001	Untreated	137	123	1460	8.03	194	51.2	173	153
Pedneault	Treated water	01100426-004	Liquid	Varies	10/22/2001	Treated	<1.0	<1.0	<1.0	<1.0	5.21	<1.0	<1.0	<1.0

## Testing by Consolidated Edison, Co.

As part of their approval process, any purchased item intended for environmental remediation or other action must be approved by their Environment, Health and Safety Chemlab.

In this test a wastewater sample was created by a ConEd representative and poured through a standing column of Fablrite. The fluid was allowed to flow passively into a collection beaker. The treated sample was then taken to ConEd's laboratory for testing.

The sample was created to simulate typical contaminated surface water run-off. Specifically, the mixture consisted of: 5ml of gasoline, 5ml of 30W oil, 20ml of antifreeze with a "splash" of ketchup (for acid) and 5 gallons of water.

The results of the testing are indicated below along with Consolidated Edison's approval of our Fablrite media.

10/16/2003

Consolidated Edison  
Environment, Health and Safety ChemLab  
NY Lab ID No: 10380

Lab Sequence Number: 03-08357-001      Date Approved: 10/16/2003  
E2 Incident Number:                              Date Received: 10/09/2003  
Chain of Custody ID: DD00049              Date Sampled: 10/08/2003

Submitter: PHILLIP N LONCAR  
Job Site: 170 WILBUR PLACE- SUITE 100 - BOHEMIA  
Email To: LONCARP@coned.com/EA-ChemLabReports  
Cc To:

NOTE: The Submitter shall post and/or provide these results to all employees working with or in the vicinity of this substance. This report shall not be reproduced, except in full, without the written consent of EH&S.  
Test results are representative only of submitted samples.

Results of Analysis

MATRIX: LIQUID GRAB  
DESCRIPTION: INFLUENT (IN)  
LOCATION: 170 WILBUR PLACE - SUITE 100 - BOHEMIA

TEST DESCRIPTION	RESULT	UNIT	METHOD
Sun C/DCL 100	< 1.00	ppm	Modified Method 8100
LVP STD	< 0.50	ppm	Modified Method 8100
Feeder 28242 Oil	< 1.00	ppm	Modified Method 8100
Feeder 38m35 Oil	< 1.00	ppm	Modified Method 8100
Feeder 69M41 Oil	< 1.00	ppm	Modified Method 8100
Propylene Glycol	< 24.3	ppm	EPA 8015
Ethylene Glycol	636	ppm	EPA 8015

TPH, Dielectric Fluid Range by EPA 8100 (Mod.)

DiChevrol Fluid 100 Cable Oil	< 1.00	ppm	Modified Method 8100
DiChevrol Fluid 500 Cable Oil	< 1.00	ppm	Modified Method 8100
Silicone Base Transformer Oil	< 1.00	ppm	Modified Method 8100
Low Visc. Polybutene Cable Oil	< 1.00	ppm	Modified Method 8100
Sun #2 Base Transformer Oil	< 1.00	ppm	Modified Method 8100
Sun #4 Cable Oil	< 1.00	ppm	Modified Method 8100
Sun #6 Cable Oil	< 1.00	ppm	Modified Method 8100
Sun #8 II Base Transformer Oil	< 1.00	ppm	Modified Method 8100
Petroleum Base Transformer Oil	< 1.00	ppm	Modified Method 8100
Feeder 51 Oil	< 1.00	ppm	Modified Method 8100

TPH, Diesel Range Organics by EPA 8100 (Mod.)

Gasoline	35.9	ppm	Modified 8100
Lubricating Oils	91.1	ppm	Modified 8100
Kerosene/Jet Fuel	< 1.00	ppm	Modified 8100

10/16/2003

Consolidated Edison  
Environment, Health and Safety ChemLab  
NY Lab ID No: 10380

Lab Sequence Number: 03-08357-003      Date Approved: 10/16/2003  
E2 Incident Number:                              Date Received: 10/09/2003  
Chain of Custody ID: DD00049              Date Sampled: 10/08/2003

Submitter: PHILLIP N LONCAR  
Job Site: 170 WILBUR PLACE- SUITE 100 - BOHEMIA  
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Test results are representative only of submitted samples.

(Non-SPDES) Total Suspended Solids (TSS) Analysis

MATRIX: LIQUID GRAB  
DESCRIPTION: EFFLUENT (OUT)  
LOCATION: 170 WILBUR PLACE - SUITE 100 - BOHEMIA

TEST DESCRIPTION	RESULT	UNIT	METHOD
Total Suspended Solids	156	mg/L	EPA 160.2

Analyzed by: ENVIRONMENTAL TESTING LABS, INC.

Approval Status: APPROVED  
Approved By: James P. Hendricks  
Title: SUPERVISOR

