

## Vehicle Conversions – WOODBRIDGE TOWNSHIP

The Township's biodiesel fuel program started in 2007 with a \$65,500 grant from the New Jersey Board of Public Utilities (BPU) which helped the Township's Department of Public Works install an above-ground biodiesel fuel tank and establish an emissions monitoring program to measure the drop in hydrocarbon emissions from vehicles fueled with biodiesel.

All Public Works vehicles run on biodiesel. Photo below is a biodiesel fuel tank at our Pump Station.



We use approximately 255,000 gallons of fuel a year and believe using biodiesel fuel is an environmentally-friendly and energy-saving initiative that saves taxpayer dollars, increases energy efficiency in our municipal government operations and protects the environment. The biodiesel fuel program is a win-win-win for the Township, our residents and the environment.

At monthly intervals our Motors Manager conducts tests to monitor the efficiency of the biodiesel fuel in all vehicles.



JON S. CORZINE  
Governor

State of New Jersey

Board of Public Utilities  
PO Box 350  
Trenton, NJ 08625-0350  
Phone (609)777-3328  
Fax (609)777-3344

JEANNE M. FOX, ESQ.  
President  
Tel: (973)648-2013

Larry McCullough, Grants Officer  
Township of Woodbridge  
Office of the Mayor  
1 Main Street  
Woodbridge, New Jersey 08902

July 20, 2007

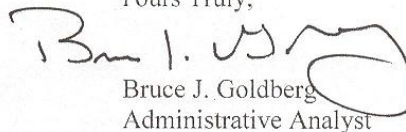
Mr. McCullough:

The Board of Public Utilities, Office of Budget and Finance(BPU), on behalf of the BPU, Office of Clean Energy , is pleased to forward to your attention the executed Grant Agreement entitled "Office of Clean Energy: New Jersey's Biodiesel Fuel Rebate Program". Through this letter, the BPU shall establish the administrative requirements over the life of the Agreement including the process by which Woodbridge Township(Township) will request payment against the Agreement. Execution of the Agreement serves to enable the Township to request reimbursement for deliveries received since the start date of the Agreement work period, July 16, 2007. The Township may submit payment requests on a monthly basis, but no later than on a quarterly basis.

In connection with the administrative requirements under the Agreement, enclosed find an Attachment which serves to clearly describe the requirements through the life of the Agreement. In addition, enclosed find State invoices, which have been partially completed with information specific to the Agreement. Information placed on the invoice should be limited to the amount of the payment request. Additional detail may be provided on cover and through documentation included in support of the invoice.

If, upon review of the Attachment, you have any questions, please call me at (609)777-3328. The Board of Public Utilities looks forward to working closely with Woodbridge Township through close-out of the Grant Agreement.

Yours Truly,

  
Bruce J. Goldberg  
Administrative Analyst

Enclosures

c: Michael Winka, Director-BPU Office of Clean Energy Program w/o enclosures  
John Zarzycki, BPU Project Manager  
Mary Carroll, Woodbridge Township CFO



BPU-069G  
1/98

(Generic-Grants)

## GENERAL TERMS AND CONDITIONS

I. Grant Award Data and Signatures

Grantee's	- Name: Woodbridge Township (the "Grantee")
	Address: 1 Main Street
	Woodbridge, New Jersey 07095
	Vendor ID #: 226002416-00
Financial Officer's - name:	Mary Carroll, Acting CFO
- Title:	(the "Chief Financial Officer")

The State of New Jersey (The "State")	
Board of Public Utilities (the "Board" or the "BPU")	
Granting agency's - name:	Office of Clean Energy Program (the Granting Agency")
- address:	PO Box 350
Trenton, New Jersey 08625-0350	

Source of Funds	AMOUNT	STATE ACCOUNT NUMBER	CFDA NUMBER	ACCOUNT TITLE
State General Fund				
Federal				
Grantee				
Other (i.e. bond fund, tax fund etc.)	65,492.00	784-082-2014-009-6130		PORF: Local Govt Alternative Fuel Program
	65,492.00	TOTAL APPROVED PROJECT AMOUNT		

**Work Period:** The "effective date" of this grant agreement is the date the Grantee executes it or the date the State executes it, whichever date is later. The "work period" for this grant commences on N/A the effective date, whichever is ☐ earlier ☐ later, and runs for a period of 12 months thereafter.

**Purpose and Authority:** Grant Project to be Funded: Office of Clean Energy: New Jersey's Biodiesel Fuel Rebate Program  
Statutory Authority for this Grant: N.J.S.A. 48:2-1et.seq.; 48:2-1et.seq.; 48:3et. seq.

In consideration of the payment of the State, the Federal, and if through the State treasury, the "other" amounts shown above (the "Grant"), the Grantee agrees to provide its share of the Total Project amount and to perform the work described in Attachment D, within the work period and in the manner and upon the terms specified in this agreement. The provisions of this agreement set forth in this Section I through Section XXIII constitute the General Terms and Conditions portion of this agreement.

\*Wherever this agreement form, including any attachments, presents alternatives, choices must be indicated as follows: An "X" within brackets or on a blank line shall indicate selection of the particular alternative. "NA" or "----" (a dashed line) shall indicate that no information is to be entered on a particular blank line. No blanks may remain just prior to execution, except in the signature blocks on attachments C and F.



## Township of Woodbridge

Department of Public Works  
Division of Equipment Repair  
Alfred G. Sileo, Motors Manager  
PO Box 91 • Keasbey, New Jersey 08832  
alfred.sileo@twp.woodbridge.nj.us  
Tel: (732) 738-1311 Ext. 3063 • Fax: (732) 738-1451

John E. McCormac, CPA, Mayor



Woodbridge - Ten Towns, One Community

### First Year Ending Bio Diesel Test Program

As of August 13, 2008, the Equipment Repair Division completed the year ending test of B-20 bio-diesel fuel. As I am sure you are aware, the content of this fuel consists of 20% bio-fuel and 80% low sulfur diesel fuel. We have experienced no difference in performance, no problem with cold weather vehicle starts. In our larger sanitation trucks, we have reported equal fuel mileage, and in Road Department roll off trucks, we reported better fuel mileage. However, we have seen a decrease in fuel mileage in our smaller Road Department trucks.

Sanitation Tr. # 53	1999 Crane Carrier Garbage Truck	3,252 Gallons Used
Sanitation Tr. #70	2006 Crane Carrier Garbage Truck	4,641 Gallons Used
Road Dept. Tr. #19	2006 Volvo Roll-off Container Truck	4,812 Gallons Used
Road Dept. Tr. #44	2005 International Dump Truck	1,795 Gallons Used
Road Dept. Tr. #5	2006 Ford F-350 4x4 Pickup Truck	813 Gallons Used
Road Dept. Tr. #10	2006 Ford F-350 4x4 Pickup Truck	1,339 Gallons Used

Low Sulfur Diesel	Bio 3 Month Check	Bio 1 Year Check
S #53 2.8 MPG	S #53 3.38 MPG	S #53 2.35 MPG
S #70 2.16 MPG	S #70 2.19 MPG	S #70 2.36 MPG
R #19 3.84 MPG	R #19 4.32 MPG	R #19 4.32 MPG
R #44 9.52 MPG	R #44 6.54 MPG	R #44 6.29 MPG
R #5 18.62 MPG	R #5 18.84 MPG	R #5 12.10 MPG
R #10 11.45 MPG	R #10 10.2 MPG	R #10 9.26 MPG

### Diesel Emissions Tests

Low Sulfur Diesel	Bio 3 Month Check	Bio 1 Year Check
S #53 9.0% Hyd	S #53 2.9% Hyd	S #53 7.1% Hyd
S #70 14% Hyd	S #70 8.8% Hyd	S #70 15.8% Hyd
R #19 No Data	R #19 3.4% Hyd	R #19 1.8% Hyd
R #44 13.5% Hyd	R #44 7.8% Hyd	R #44 8.0% Hyd
R #5 No Data	R #5 No Data	R #5 No Data
R #10 No Data	R #10 No Data	R #10 No Data

Township Web Address  
[www.twp.woodbridge.nj.us](http://www.twp.woodbridge.nj.us)

## Changes to Bio Diesel Program

After looking over all of the latest figures, it is my recommendation along with Mr. Henry (Director of Public Works) to remove Road Dept. Tr. #44, #5 and #10 from the bio program due to the poor fuel mileage they have shown and replace them with three late-model Sanitation trucks. It seems that the Sanitation trucks with the larger engines and higher horsepower are getting better fuel mileage. With that being the case, I would like to add Sanitation Tr. #71, #72 and #73 in place of the three Road Dept. trucks mentioned.

Thank you,

Alfred G. Sileo  
Motors Manager  
Division of Equipment Repair  
Township of Woodbridge

# NEWS

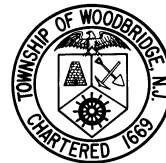
## TOWNSHIP OF WOODBRIDGE

**MAYOR JOHN E. McCORMAC**

**1 Main Street, Woodbridge, NJ 07095**

Phone: (732) 634-4500 ♦ Fax: (732) 602-6016

Web: <http://www.twp.woodbridge.nj.us>



**FOR IMMEDIATE RELEASE:**

*October 24, 2007*

**FOR FURTHER INFORMATION CONTACT:**

*John R. Hagerty*

*Mayor's Office of Communications*

*732-602-6039*

### ***Woodbridge Township Continues Eco-Friendly Programs with Implementation of BioDiesel Fuel to Power Municipal Vehicles***

***Township's Environmental & Energy-Saving Inventory Includes...  
Energy-Saving Fluorescent Lighting... Installation of Solar Panels at  
Township Buildings... 12 Hybrid Vehicles... Recycling & Convenience  
Center... Tree Replacement Program...***

**WOODBIDGE** – Mayor John E. McCormac today announced that Woodbridge Township continues to lead the way in environmental and energy-saving programs with the introduction of energy efficient biodiesel fuels to power municipal vehicles. The bio-diesel fuel program is part of an overall, Township-wide environmentally-friendly strategy to implement energy-saving initiatives geared to maximize savings by reducing future costs while working to protect the environment.

In announcing the implementation of the Township's biodiesel fuel program, Mayor McCormac noted that Township Departments are working with the Woodbridge Environmental Commission to implement energy-saving initiatives that can be easily accomplished by Township residents, businesses and municipal facilities. The initiatives include:

- Replacing standard light bulbs with energy-saving compact fluorescent light bulbs;
- Exploring the potential of installing high-efficiency, energy producing solar panels at the Woodbridge Community Center and other municipal facilities;
- Continued purchase of energy-saving, fuel efficient hybrid vehicles to supplement the municipal fleet;
- Expansion of the Public Works recycling program to include the disposal of compact fluorescent light bulbs, electronics and computers;
- Opening the recycling and bulk waste "convenience center" at the Public Works facility in Keasbey; and
- Municipal tree replacement program in parks and municipal properties.

“I am pleased to announce that Woodbridge Township recognizes the need to develop and incorporate environmental-friendly and energy-saving solutions to every day government operations and of our obligation to communicate the environmental mission to our residents,” Mayor McCormac said. “The biodiesel fuel program is a practical, cost-effective and energy efficient way to power Township vehicles while conserving non-renewable petroleum diesel.”

Mayor McCormac said that the Township’s biodiesel fuel program was jump-started with a \$65,500 grant from the New Jersey Board of Public Utilities (BPU). The grant allowed the Township’s Department of Public Works to install an above-ground biodiesel fuel tank and to establish an emissions monitoring program to measure the drop in hydrocarbon emissions from vehicles fueled with biodiesel.

The Department of Public Works selected six municipal vehicles (small trucks and SUV’s), two Ford International dump trucks, and two Crane Carrier garbage trucks for the biodiesel pilot program. The vehicles will be monitored for emissions (biodiesel vs. conventional diesel fuel emissions), fuel consumption, mileage per gallon and overall performance during a four-month period. Additionally, Public Works will receive rebates on the purchase of biodiesel fuel through state and county rebate programs.

According to the U.S. Department of Energy, biodiesel fuel is a domestically produced, clean-burning, renewable substitute for petroleum diesel. Studies have determined that biodiesel increases energy security, improves public health and the environment, and provides safety benefits. Compared to using petroleum diesel, using biodiesel in a conventional diesel engine substantially reduces emissions of unburned hydrocarbons, carbon monoxide, and other greenhouse gas emissions.

Mayor McCormac noted that the Township is pursuing other environmental initiatives, including the installation of energy-producing solar panels at the Community Center and municipal facilities. The proposed pilot project is geared to save long-term energy costs through the implementation of self-sustaining solar energy to provide a portion of the power needs for municipal facilities. Additionally, the Township purchased 12 environmentally-friendly Ford Escape hybrid vehicles to supplement the municipal fleet. The 2007 Ford Escape hybrids cost \$25,576 each and are estimated by the manufacturer to get over 36 miles per gallon. The Township also reduced the purchase price of the Hybrid vehicles by more than \$48,000 through state and county rebates totaling more than \$4,000 per vehicle.

Woodbridge Municipal Council President Brenda Yori-Velasco said, “The Council is delighted that Woodbridge is in the forefront of environmentally-friendly and energy-saving initiatives geared to save taxpayers dollars, increase energy efficiency in municipal government operations and protect the environment. The biodiesel fuel program is a win-win for the Township, our residents and the environment.”

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