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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 18, 2011

Ms. Cynthia L. Morphey
Vice President
Biofriendly Corporation
50 Casa Verde
Austin, Texas 78734

Re: Alternative Diesel Fuel Formulation Approval Notification

Dear Ms. Morphey:

The Texas Commission on Environmental Quality (TCEQ) has approved in accordance with the TCEQ regulations specified under Title 30 Texas Administrative Code (30 TAC) §114.315(c) the alternative diesel fuel formulation for Texas low emission diesel fuel (TxLED) consisting of a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in the TxLED regulations under 30 TAC §114.6 treated with a minimum of 0.20 milliliters (ml) of the Biofriendly Corporation (Biofriendly) Green Plus A® additive per gallon of the biodiesel/diesel fuel blend. This approval is based upon the following findings:

- The emissions testing performed by the Olson-EcoLogic Engine Testing Laboratories (Olson) in Fullerton, California, from January 15, 2007, to February 7, 2007, was conducted in accordance with the procedures specified under 30 TAC §114.315(c).
- The nitrogen oxides (NO_x) emissions and particulate matter (PM) from the nine eligible candidate fuel emissions tests were less than the NO_x and PM emissions from the six TxLED reference fuel emissions tests as determined in accordance with the emissions comparison calculations specified under 30 TAC §114.315(c)(5). In addition, the average emissions of total hydrocarbons and non-methane hydrocarbons recorded during the candidates fuel testing did not exceed the test engine's applicable emission standards.
- The comparative analysis of the emission test data from the testing of the Biofriendly Green Plus A® additive treated B10 biodiesel formulation indicates it has met the conditions specified under 30 TAC §114.315(c)(5) to be approved by the TCEQ as an alternative diesel formulation for TxLED.

This approval only applies to the alternative diesel fuel formulation consisting a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in 30 TAC §114.6 treated with a minimum of 0.20 ml of the Biofriendly Green Plus A® additive per gallon of the biodiesel/diesel fuel blend, and as described in the TCEQ's Approval Notification issued under TCEQ assigned identification number: TXLED-A-00024.

As a TCEQ-approved alternative diesel fuel formulation, diesel fuel producers may use a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in 30 TAC §114.6 treated with a minimum of 0.20 ml of the Biofriendly Green Plus A® additive per gallon of the biodiesel/diesel fuel blend for compliance with the TxLED fuel content requirements as provided in the TCEQ regulations under 30 TAC §114.312(f). Producers using this product will be required to comply with the registration requirements specified in the TCEQ regulations under 30 TAC §114.314 and the appropriate monitoring, recordkeeping, and reporting requirements specified in the TCEQ regulations under 30 TAC §114.316.

This approval is subject to the actual emissions performance of diesel-powered engines using a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in 30 TAC §114.6 treated with a minimum of 0.20 ml of the Biofriendly Green Plus A® additive per gallon of the biodiesel/diesel fuel blend. Evidence that a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in 30 TAC §114.6 treated with a minimum of 0.20 ml of the Biofriendly Green Plus A® additive per gallon of the biodiesel/diesel fuel blend does not result in emissions that are equivalent to or better than diesel fuel meeting the cetane number, and aromatic hydrocarbons content requirements of TxLED may result in the revocation of this approval or other appropriate enforcement action. This approval is also subject to proper treatment and storage of a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in 30 TAC §114.6 treated with a minimum of 0.20 ml of the Biofriendly Green Plus A® additive per gallon of the biodiesel/diesel fuel blend.

Biofriendly is required to provide detailed written instructions regarding the specific storage requirements, blending methods, and treatment rate to any producer using this approved alternative diesel fuel formulation for compliance with the TxLED requirements that are necessary to ensure proper emissions performance of a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in 30 TAC §114.6 treated with a minimum of 0.20 ml of the Biofriendly Green Plus A® additive per gallon of the biodiesel/diesel fuel blend. Improper storage, blending, and/or additive treatment rate of a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in 30 TAC §114.6 treated with a minimum of 0.20 ml of the Biofriendly Green Plus A® additive per gallon of the biodiesel/diesel fuel blend may result in enforcement action.

Enclosed with this letter is the Approval Notification documenting the TCEQ's approval of the alternative diesel fuel formulation consisting of a biodiesel/diesel fuel blend comprised of 10% or less by volume of ASTM D6751-compliant B100 biodiesel and 90% or more by volume diesel fuel as defined in 30 TAC §114.6 treated with a minimum of 0.20 ml of the Biofriendly Green Plus A® additive per gallon of the biodiesel/diesel fuel blend.

This letter and the Approval Notification document will be posted to the TCEQ's TxLED Program Web site for public notice at the following link:
<http://www.tceq.state.tx.us/implementation/air/sip/cleandiesel.html>.

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If you have any additional questions or need further assistance in regards to this process, please contact Mr. Morris Brown in the TCEQ's Air Quality Planning Section at (512) 239-1438 or morris.brown@tceq.texas.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Susana M. Hildebrand". The signature is fluid and cursive, written over a white background.

Susana M. Hildebrand, P.E.

Chief Engineer

Texas Commission on Environmental Quality

SH/MB/kb

Enclosure