Homestead
Energy Services

Via electronic submittal

February 19, 2014

Yousry Attalla (Joe), P.E., CPM
Office of Permitting and Compliance
Division of Air Resource Management
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399

RE: Title V Air Operation Permit - Renewal Application
City of Homestead Utilities - G.W. Ivey Power Plant
675 N. Flagler Avenue
Homestead, Florida 33030
Facility ID: 0250013
URS Job No. 38619581

Dear Mr. Attalla:

City of Homestead Utilities (COH) respectfully submits this requested additional information for the Title V Air Operation Permit Renewal Application for the G. W. Ivey Power Plant (facility) located in Homestead, Florida. The additional information is provided in response to the Request for Additional Information (RAI) letter received from the Florida Department of Environmental Protection (FDEP) on November 25, 2013. The FDEP RAI letter was received in response to the Title V Air Operation Permit Renewal application submitted by the COH on October 4, 2013 for G.W. Ivey Power Plant. A copy of the FDEP RAI dated November 25, 2013 is included as **Attachment 1**. The comments provided by the FDEP are presented in bold, plain text and the COH responses are provided below in italic font.

1. **The Compliance Report and Plan included with the application was a copy of the calendar year 2012 Annual Statement of Compliance, rather than a report of the current compliance status of each regulated emissions units. Please submit a full report of the current compliance status for all of the regulated units at the site (see also item 2.c.)**
    - *Emission Units (Engines) 019, 020, and 021 have been retrofitted with oxidation catalysts, upgraded crankcase ventilation units, and monitoring systems. These units were successfully tested for compliance in February 2013. A copy of the compliance test report dated March 7, 2013 was submitted to the Miami-Dade County – Department of Regulatory and Economic Resources (Miami-Dade RER).*

675 North Flagler Avenue • Homestead, Florida 33030
Phone: 305-224-4700 • Fax: 305-224-4769 • Email: hes@homesteadenergy.org

- *Engines 002, 013, and 017 have been have been retrofitted with oxidation catalysts, upgraded crankcase ventilation units, and monitoring systems. These units were successfully tested for compliance in December 2013. A copy of the compliance test report dated January 10, 2014 was submitted to the Miami-Dade RER.*
- *Engines 003, 014, 015, 016 have been retrofitted with oxidation catalysts, upgraded crankcase ventilation units, and monitoring systems. These four EUs will be tested for compliance by May 2014. These engines will remain out of service until the compliance testing is complete.*
- *More detailed information is included in the response to item 2.c*

Please note that the specifications for the oxidation catalyst, upgraded crankcase ventilation units, and monitoring systems were included with the original Title V Permit Renewal Application submitted in October 2013.

2. **According to the application, the facility consists of 16 regulated dual fuel fired engine/generators (EUs 002, 003 and 008 – 021) and various unregulated fuel oil and miscellaneous storage tanks. Please confirm/clarify the following information that was reported in the application:**
   a. **<u>Retired Units:</u> EU 008 - EU 012 and EU 018 were listed in the application as having been taken out of service on May 3, 2013. Have these units been permanently removed from the site or are they being reserved in an inactive status with plans to upgrade them in order to comply with the federal RICE requirements at some point in the future? If they still remain at the site, what steps have been taken to ensure that these units are not capable of being operated until the necessary upgrades needed to comply with the RICE requirements are installed? If the intention is to utilize these engines in the future, please provide a compliance plan committing to a schedule for achieving compliance prior to future operation of these units.**

      Engines 008, 012, 018 listed as retired are permanently shut down with no plans to operate them in the future. They are not being kept in inactive reserve. The decision to retire the engines was made due their age and mechanical condition.

      There are no plans to remove the engines from the site, but they are all tagged out and various tanks and lines are being removed.

   b. **<u>Control Equipment:</u> EU 19, EU 20 and EU 21 have been equipped with a catalytic convertor, continuous monitoring system and an updated crankshaft ventilation system. These emission units were tested in February of 2013 and the associated test reports were received in the compliance office on March 7, 2013. The application lists the methods of operation for these engines as being able to fire on 100% oil and on a blend of oil and gas up to 95% natural gas. The introduction to the test report describes the units as being dual fueled engines fired on a blend of**

95% natural gas and 5% oil. The test report shows the cubic feet of fuel fired during the tests, but does not specifically list how much oil (or what percentage of the total), if any, was fired during the actual tests.

By design, the engines utilize 5% to 7% of the total heat input from diesel fuel for ignition purposes. The natural gas supply to the engines is metered, but the fuel flow is not metered to the engine, only to the day tank. The average ratio of gas to fuel heat input can be determined over time by comparing day tank levels to gas consumption, but real time metering does not exist.

(1) Please clarify what fuel blend was fired during these referenced compliance tests.

The fuel blend used during the test was the same as referenced in the answer to question (3) below.

(2) Have any compliance tests been performed while firing 100% fuel oil?

No, there is not any intention of firing these engines on 100% diesel fuel.

(3) What is the normal fuel blend fired in these engines?

The engines run on natural gas with diesel fuel used for ignition only. By design, the heat input from the diesel fuel is 5% to 7%. The fuel oil used is ultra-low sulfur diesel (ULSD) containing 15 ppm sulfur or less.

(4) The test results indicate that the tests were performed at the "normal maximum achievable load of 57.8%, 65.9% and 86.3%, respectively for units 19, 20 and 21, as full load could not be achieved". For permitting purposes, please provide the current design and operational capacities for each of the engines that will remain operational at this site.

During the tests, the engines were run at the maximum achievable load that the engines were capable of on the day of the tests. Various mechanical or cooling problems prevented running the engines at name plate load. It is COH' preference to have the engines permitted at the name plate capacity, which is listed on the Engine Data Sheet, included as an ***Attachment 2.***

(5) If it is desired to be able to operate these engines (as well as the engines not yet tested) at maximum achievable load while firing 100% oil, please provide a schedule for performing representative compliance tests.

There is not any intention of firing these engines on 100% diesel fuel.

c. Pending Compliance Requirements: "Installation of the catalytic convertors, continuous monitoring systems, and updated crankshaft ventilation systems for Emission Units 002, 003, 013 – 017 will be completed by December 2013." In order to comply with the federal requirements for non-emergency reciprocating internal combustion engines (RICE), these upgrades were required to have been completed no later than May 3, 2013, and the initial compliance tests were required to be completed no later than October 30, 2013. Please be aware that any operation of these units subsequent to May 3, 2013 and prior to the completion of the upgrades is likely not in compliance with the RICE requirements. In order to determine the applicable requirements and compliance status that needs to be included in the renewed permit for each of these engines, please provide the following:

As included in the Response to the Comment No. 1, Engines 002, 003, 013, 014, 015, 016, 017 have been retrofitted with oxidation catalysts, upgraded crankcase ventilation units, and monitoring systems. Engines 002, 013, and 017 were successfully tested for compliance on December 3 and 4, 2013. Engines 003, 014, 015, 016 will be tested for compliance by May 2014 and will remain out of service until the compliance testing is complete.

(1) The operating history since May 3, 2013.

Engines 003, 014, and 015 are not operated since May 3, 2013. Engines 002, 013, 016, and 017 were operated for backup electricity generation and their hours of operations from May 3, 2013 through November 21, 2013 were originally provided in an e-mail to Ms. Mallika Muthiah from Miami-Dade RER, on November 21, 2013. Engines 002, 013, 016, and 017 were not operated after November 21, 2013 unless the retrofitting and compliance testing activities were complete. A copy of the email is included as an ***Attachment 3****.*

Please note that City of Homestead – Homestead Energy Services is a member of Florida Reliability Coordinating Council and serves as a control area within the State of Florida to have electricity generation available to respond to the disturbances to the electric grid in the State of Florida. Engines 002, 013, 016, and 017 were operated, without retrofitting from May 3, 2013 through November 21, 2013, to provide the backup electricity generation, either in the absence of the availability of the Engines 019, 020, and 021 or to meet the demand lower than the output of the Engines 019, 020, and 021.

(2) A schedule for completing the necessary upgrades.

All of the required retrofits/upgrades inclusive of the installation of the oxidation catalysts, upgraded crankcase ventilation units, and monitoring systems have been completed on the engines as of December 17, 2013.

(3) A schedule for completing the initial compliance testing.

- *Engines 019, 020, and 021 passed compliance testing on February 12, 2013.*
- *Engines 013 and 017 passed compliance testing on December 3, 2013.*
- *Engine 002 passed compliance testing on December 4, 2013.*
- *Engines 003, 014, 015, and 016 will be tested for compliance prior to May 2014 pending mechanical repairs that are required to operate the engine. These engines will remain out of service until the compliance testing is complete.*

(4) A schedule for submitting the initial test results.

- *The test results for engines 019, 020, and 021 have been submitted to the Miami-Dade RER in the compliance test report dated March 7, 2013.*
- *The test results for engines 002, 013, and 017 have been submitted to the Miami-Dade RER in the compliance test report dated January 10, 2014.*
- *Miami-Dade RER, FDEP, and the EPA will be notified of the future testing dates and the results submitted upon completion.*

(5) A compliance statement signed by the Responsible Official committing to and certifying that these schedules will be adhered to.

Noted. A compliance statement signed by the Responsible Official is included at the end of this RAI Response Letter.

3. As of May 3, 2013, the non-emergency compression ignition engines listed above are required to be fired on ultra-low sulfur diesel fuel oil containing no more than 0.015% sulfur. However, the existing permit describes these engines as being fired on diesel fuel containing 0.05% sulfur. Please provide documentation showing that the diesel fuel stored in the tanks that provide fuel for these engines contain a blended fuel that meets the requirements specified in 40 CFR 80.510 80.510(b) for non-road diesel fuel, and the date on which compliance with this requirement was achieved.

COH has been purchasing and using Ultra Low Sulfur Diesel (ULSD) fuel for the engines located at the facility. Three invoices and bills of lading dated October 10, 2007, October

*19, 2008, and September 9, 2010 for purchases of ULSD are included in the **Attachment 4**. COH had submitted fuel samples for sulfur content analysis to the Keystone Material Testing (KMT) in January 2011 and to Pace Analytical Services in September 2013. Copies of the laboratory reports, listing the low sulfur content in the fuel samples, dated January 21, 2011 and October 3, 2013, are also included in the **Attachment 4**.*

4. **Please identify all other internal combustion engine-driven pieces of equipment (i.e., generators, welders, air compressors, fire pumps, etc.) located at the facility that are subject to New Source Performance Standards (NSPS), Subpart IIII (Standards of performance for Stationary Compression Ignition Internal Combustion Engines), Subpart JJJJ (Standards or Performance for Spark Ignition Internal Combustion Engines) in 40 Code of Federal Regulations 60, and/or National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines) in 40 CFR 63. For each such engine, please include the following information in a table:**

   The facility has two other pieces of equipment utilizing internal combustion engines, an emergency backup generator (A) and an emergency air compressor (B).

   a. The engine brake-horse power, the kilowatt rating of the generator (if applicable), the number of cylinders and total displacement and the fuel type fired.

      A. Emergency backup generator is a 158 horsepower, 100 kw, 6 cylinders, 4.5 L displacement unit operated on ULSD fuel.
      B. Emergency air compressor is a 143 horsepower, 6.1 L displacement unit operated on ULSD fuel.

   b. The date the engine was manufactured and the date the engine was ordered.

      A. Emergency backup generator was manufactured in 2011 and purchased in 2012.
      B. Emergency air compressor was manufactured in 1989 and purchased in 1990.

   c. Is the engine certified by the manufactured?

      A. Emergency backup generator is certified as Tier 3/ Stage IIIA by the manufacturer.
      B. Emergency air compressor: No certification available.

   d. What is the engine used for?

      A: Emergency Generator
      B: Emergency Air Compressor

e. Hours of operation. Does the engine meet the definition of an emergency/limited use as defined in the Code of Federal regulations?

A. Emergency backup generator is operated less than 100 hours per year.
B. Emergency air compressor is operated less than 100 hours per year.

f. Does the engine meet the definition of a stationary engine (i.e., is it set up in an operable configuration at one location within the facility for more than 12 consecutive months)?

Emergency backup generator and emergency air compressor remain within the facility for more than 12 consecutive months and hence meet the definition of stationary engine. The locations of these two units within the facility change depending on the usage requirements.

g. Please identify if the engine is equipped with control equipment?

Emergency backup generator and emergency air compressor are not equipped with any control equipment.

h. Please specify how the facility is complying with the applicable subparts.

Emergency backup generator and emergency air compressor are maintained and operated as per the manufacturer's recommendations.

5. Based on our review, it appears that these oil-fired diesel generators are subject to a nitrogen oxide emissions limit of 4.75 lb/MMBtu pursuant to Rule 62-296.570(4)(b)7., F.A.C., but this was not identified in the application as an applicable requirement. Please review this rule and either provide information regarding why you feel this rule is not applicable or provide information on how you will demonstrate compliance with this requirement in the future.

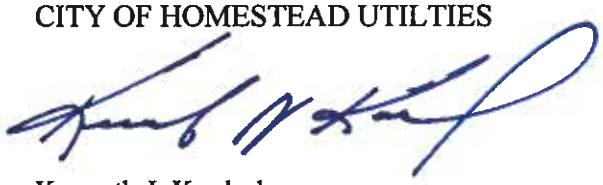
It is our understanding that nitrogen oxide emissions limit of 4.75 lb/MMBtu pursuant to Rule 62-296.570(4)(b)7., F.A.C. is applicable to engines which are operated on 100% fuel oil. The engines, 002, 003, 013, 014, 015, 016, 017, 019, 020, and 021, located at the facility are dual fuel engines, mainly operating on natural gas. The engines are started on 100% ULSD until the proper operating temperature is achieved, which is usually 5 to 10 minutes. The engines are then switched over to a dual fuel firing mode, which is typically 95% natural gas and 5% ULSD oil mixture. The ULSD is added to maintain operation. Therefore, above cited rule is not applicable to the Engines included the application.

Responsible Official Compliance Statement

I certify that I am a responsible official for the above listed facility and based on information and belief formed after reasonable inquiry, that the statements made in this RAI are true, accurate and complete and that, to the best of my knowledge. The air pollutant emissions units and air pollution control equipment described in this RAI will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this RAI to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in this RAI.

If you need any additional information, please contact the undersigned at (305) 224-4707.

Sincerely,
CITY OF HOMESTEAD UTILTIES



Kenneth J. Konkol
Assistant Director of Utilities

Attachments

1. Regulatory Correspondence
2. Engine Data Sheet
3. Copy of Email to Miami-Dade RER dated November 21, 2013 (Engine Hour Log)
4. Fuel Invoices and Laboratory Analytical Reports

Electronic cc:	Jonathan Holtom,	DARM/FDEP	jon.holtom@dep.state.fl.us
	Ms. Mallika Muthiah,	Miami Dade County, RER	muthim@miamidade.gov
	Ms. Marta March,	Miami Dade County, RER	marchm@miamidade.gov
	Ms. Ana Oquendo,	U.S. EPA Region 4	oquendo.ana@epa.gov
	Ms. Natasha Hazziez,	U.S. EPA Region 4	hazziez.natasha@epa.gov
	Ms. Barbara Friday,	DEP OPC:	barbara.friday@dep.state.fl.us
	Ms. Lynn Scearce,	DEP OPC:	lynn.scearce@dep.state.fl.us
	Robert G. Cooper,	URS/Boca Raton	bob.cooper@urs.com

ATTACHMENT 1

Regulatory Correspondence

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
BOB MARTINEZ CENTER
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

November 25, 2013

Sent by Electronic mail – Received Receipt Requested

Mr. Kenneth J. Konkol, Assistant Director of Utilities
City of Homestead
675 North Flagler Avenue
Homestead, Florida 33030

Re: Request for Additional Information Regarding Title V Permit Renewal Application
Project No. 0250013-004-AV
Gordon W. Ivey Power Plant
Miami-Dade County, Florida

Dear Mr. Konkol:

The Department received your application for a Title V air operation permit renewal for the above referenced facility on October 4, 2013. The application was received in a timely manner and substantially addresses the information required to begin processing a Title V permit. However, in order to finish the processing of this application, the Department is requesting the additional information outlined below pursuant to Rules 62-213.420(1)(b)3. and 62-4.070(1), Florida Administrative Code (F.A.C.). Should your response to any of the items below require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

1. The Compliance Report and Plan included with the application was a copy of the calendar year 2012 Annual Statement of Compliance, rather than a report of the current compliance status of each regulated emissions units. Please submit a full report of the current compliance status for all of the regulated units at the site (see also item 2.c.)
2. According to the application, the facility consists of 16 regulated dual fuel fired engine/generators (EUs 002, 003 and 008 – 021) and various unregulated fuel oil and miscellaneous storage tanks. Please confirm/clarify the following information that was reported in the application:
   a. Retired Units: EU 008 - EU 012 and EU 018 were listed in the application as having been taken out of service on May 3, 2013. Have these units been permanently removed from the site or are they being reserved in an inactive status with plans to upgrade them in order to comply with the federal RICE requirements at some point in the future? If they still remain at the site, what steps have been taken to ensure that these units are not capable of being operated until the necessary upgrades needed to comply with the RICE requirements are installed? If the intention is to utilize these engines in the future, please provide a compliance plan committing to a schedule for achieving compliance prior to future operation of these units.
   b. Control Equipment: EU 19, EU 20 and EU 21 have been equipped with a catalytic convertor, continuous monitoring system and an updated crankshaft ventilation system. These emission units were tested in February of 2013 and the associated test reports were received in the compliance office on March 7, 2013. The application lists the methods of operation for these engines as being able to fire on 100% oil and on a blend of oil and gas up to 95% natural gas. The introduction to the test report describes the units as being dual fueled engines fired on a blend of 95% natural gas and 5% oil. The test report shows the cubic feet of fuel fired during the tests, but does not specifically list how much oil (or what percentage of the total), if any, was fired during the actual tests.
      (1) Please clarify what fuel blend was fired during these referenced compliance tests.
      (2) Have any compliance tests been performed while firing 100% fuel oil?
      (3) What is the normal fuel blend fired in these engines?

(4) The test results indicate that the tests were performed at the "normal maximum achievable load of 57.8%, 65.9% and 86.3%, respectively for units 19, 20 and 21, as full load could not be achieved". For permitting purposes, please provide the current design and operational capacities for each of the engines that will remain operational at this site.
(5) If it is desired to be able to operate these engines (as well as the engines not yet tested) at maximum achievable load while firing 100% oil, please provide a schedule for performing representative compliance tests.

c. Pending Compliance Requirements: "Installation of the catalytic convertors, continuous monitoring systems, and updated crankshaft ventilation systems for Emission Units 002, 003, 013 – 017 will be completed by December 2013." In order to comply with the federal requirements for non-emergency reciprocating internal combustion engines (RICE), these upgrades were required to have been completed no later than May 3, 2013, and the initial compliance tests were required to be completed no later than October 30, 2013. Please be aware that any operation of these units subsequent to May 3, 2013 and prior to the completion of the upgrades is likely not in compliance with the RICE requirements. In order to determine the applicable requirements and compliance status that needs to be included in the renewed permit for each of these engines, please provide the following:
(1) The operating history since May 3, 2013.
(2) A schedule for completing the necessary upgrades.
(3) A schedule for completing the initial compliance testing.
(4) A schedule for submitting the initial test results.
(5) A compliance statement signed by the Responsible Official committing to and certifying that these schedules will be adhered to.

3. As of May 3, 2013, the non-emergency compression ignition engines listed above are required to be fired on ultra low sulfur diesel fuel oil containing no more than 0.015% sulfur. However, the existing permit describes these engines as being fired on diesel fuel containing 0.05% sulfur. Please provide documentation showing that the diesel fuel stored in the tanks that provide fuel for these engines contain a blended fuel that meets the requirements specified in 40 CFR 80.510(b) for non-road diesel fuel, and the date on which compliance with this requirement was achieved.

4. Please identify all other internal combustion engine-driven pieces of equipment (i.e., generators, welders, air compressors, fire pumps, etc.) located at the facility that are subject to New Source Performance Standards (NSPS), Subpart IIII (Standards of performance for Stationary Compression Ignition Internal Combustion Engines), Subpart JJJJ (Standards or Performance for Spark Ignition Internal Combustion Engines) in 40 Code of Federal Regulations 60, and/or National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines) in 40 CFR 63. For each such engine, please include the following information in a table:
   a. The engine brake-horse power, the kilowatt rating of the generator (if applicable), the number of cylinders and total displacement and the fuel type fired.
   b. The date the engine was manufactured and the date the engine was ordered.
   c. Is the engine certified by the manufactured?
   d. What is the engine used for?
   e. Hours of operation. Does the engine meet the definition of an emergency/limited use as defined in the Code of Federal regulations?
   f. Does the engine meet the definition of a stationary engine (i.e., is it set up in an operable configuration at one location within the facility for more than 12 consecutive months)?
   g. Please identify if the engine is equipped with control equipment?
   h. Please specify how the facility is complying with the applicable subparts.

5. Based on our review, it appears that these oil-fired diesel generators are subject to a nitrogen oxide emissions limit of 4.75 lb/MMBtu pursuant to Rule 62-296.570(4)(b)7., F.A.C., but this was not identified in the application as an applicable requirement. Please review this rule and either provide information regarding why you feel this rule is not applicable or provide information on how you will demonstrate compliance with this requirement in the future.

The above information is requested pursuant to the following F.A.C. regulations: Rule 62-4.050 (Procedures to Obtain Permits and Other Authorizations; Applications); 62-4.055 (Permit Processing); 62-4.070 (Standards for Issuing or Denying Permits; Issuance; Denial); 62-4.120 (Construction Permits); 62-204.800 (Federal Regulations Adopted by Reference); 62-212.300 (Permits Required); 62-210.370 (Emissions Computations and Reporting); 62-210.900 (Forms and Instructions); 62-212.300 (General Preconstruction Review); and 62-212.400 (Prevention of Significant Deterioration). All applications for a Department permit must be certified by a professional engineer registered in the State of Florida pursuant to Rule 62-4.050(3), F.A.C. This requirement also applies to responses to Department requests for additional information of an engineering nature. For any material changes to the application, please include a new certification statement by Responsible Official.

We will resume processing your application after receipt of the requested information. You are reminded that Rule 62-4.055(1), F.A.C. requires applicants to respond to requests for information within 90 days or to provide a written request for an additional period of time to submit the information. If you have any questions regarding this matter, please contact the project engineer, Yousry (Joe) Attalla, by telephone at (850) 717-9078 or by e-mail at yousry.attalla@dep.state.fl.us.

Sincerely,

Jon Holtom, P.E., CPM
Office of Permitting and Compliance
Division of Air Resource Management

JFK/sa/jh/yha

Mr. Kenneth J. Konkol, Assistant Director of Utilities: kkonkol@homesteadenergy.org
Ms. Mallika Muthia, Miami Dade County, RER: muthim@miamidade.gov
Ms. Marta March, Miami Dade County, RER: marchm@miamidade.gov
Ms. Ana Oquendo, U.S. EPA Region 4: oquendo.ana@epa.gov
Ms. Natasha Hazziez, U.S. EPA Region 4: hazziez.natasha@epa.gov
Ms. Barbara Friday, DEP OPC: barbara.friday@dep.state.fl.us
Ms. Lynn Scearce, DEP OPC: lynn.scearce@dep.state.fl.us

ATTACHMENT 2

Engine Data Sheet

Engine Data Sheet

					NAMEPLATE		
UNIT	ENGINE TYPE	SERIAL NUMBER	BHP	INSTALLED	PF	KW	KVA
2	F/M 8 1/8 OP 12 CYL. (DF)	38D869019 TDF SM 12	2880	1970	80%	2070	2500
3	F/M 8 1/8 OP 12 CYL. (DF)	38D869024 TDF SM 12	2880	1970	80%	2070	2500
13	F/M 8 1/8 OP 12 CYL. (DF)	38D871061 TDF SM 12	2880	1972	80%	2070	2588
14	F/M 8 1/8 OP 12 CYL. (DF)	38D871062 TDF SM 12	2880	1972	80%	2070	2588
15	F/M 8 1/8 OP 12 CYL. (DF)	38D871064 TDF SM 12	2880	1972	80%	2070	2588
16	F/M 8 1/8 OP 12 CYL. (DF)	38D871068 TDF SM 12	2880	1972	80%	2070	2588
17	F/M 8 1/8 OP 12 CYL. (DF)	38D871069 TDF SM 12	2880	1972	80%	2070	2588
19	ENTER. DGSRV 20-4 (DF)	73029-2550	12,207	1975	0.8	8800	11000
20	COLT PIELSTICK PC2.3V (DF)	PO4206400A	9,000	1981	0.8	6485	8106
21	COLT PIELSTICK PC2.3V (DF)	PO4206400B	9,000	1981	0.8	6485	8106

ATTACHMENT 3

Copy of Email to Miami – Dade RER dated November 21, 2013 (Engine Hour Log)

Ken Konkol

From: Maria Medina
Sent: Thursday, November 21, 2013 1:32 PM
To: 'muthim@miamidade.gov'
Cc: Ken Konkol; William Branch
Subject: City of Homestead Engine Data

Mallika,

On behalf of Ken Konkol, as requested, listed below you will find the total hours ran during period May 3, 2013 through November 21, 2013 for engines located at the Gordon W. Ivey Power Plant for the City of Homestead.

Engine#2	163.10	
Engine#3	0.00	
Engine#8	0.00	(Retired)
Engine#9	0.00	(Retired)
Enigne#10	0.00	(Retired)
Engine#11	0.00	(Retired)
Engine#12	0.00	(Retired)
Engine#13	1,250.50	
Engine#14	0.00	
Engine#15	0.00	
Engine#16	679.40	
Engine#17	1,394.90	
Engine#18	0.00	(Retired)
Totals:	**3,487.90**	

Kind Regards,

Maria

Maria M. Medina
Administrative Assistant
Homestead Energy Services
Office: 305-224-4751
Fax: 305-224-4769
mmedina@cityofhomestead.com

Reliable Public Power Provider

ATTACHMENT 4

Fuel Invoices and Laboratory Analytical Reports

MANSFIELD

Mansfield Oil Company
of Gainesville, Inc.
1025 Airport Parkway, S.W.
Gainesville, Georgia 30501-6813
800-695-6628

PLEASE REMIT TO,

MANSFIELD OIL COMPANY
P. O. BOX 934067
ATLANTA, GA 31193-4067
FEIN 58-1091383

SHIP TO
CITY OF HOMESTEAD
POWER PLANT
675 NORTH FLAGLER AVENUE
HOMESTEAD FL 33030-D

BILL TO
CITY OF HOMESTEAD
ATTN: DORIS JACKSON/POWER PLANT
675 NORTH FLAGLER AVE
HOMESTEAD FL 33030

ACCOUNT NUMBER	9325-01-250339
YOUR ORDER NUMBER	990219 -9/30/99
CONTRACT NO.	
	250339

TERMS FROM DELIVERY DATE	SHIP VIA	TERMINAL	DELIVERY NO.	DELIVERY DATE	INVOICE DATE	INVOICE N
T 30 DAYS	PENN TANK	PT EVERGLADE, FL	781-224	10/09/2007	10/10/2007	2503

B/L NO.	DESCRIPTION	GROSS	NET	UNIT PRICE	AMOUNT
545348	ULSD 15 DYED DYED 14:15	7501	7410	2.405500	17824.
	FED EXC LUST GOVT TA			.001000	7.
	FL POLLUTION TAX			020714	153.
	FED ENV REC FEE			001200	8.
	ORIGINAL INVOICE		PLEASE PAY THIS AMOUNT		$17,994.

DEPT: Utilities DIV: PS
REQ NO. ____ P.O. NO.: 080238
PARTIAL: ____ FINAL ✓ DATE: 11/15/07

FUND	C/C	OBJECT	PROJ.	AMOUNT
401-	2300-53	31-50	E547	252,132 53
				252,132 53

APPROVED ____ AUTHORIZED ____ DATE: 11/15/07 pm

1 of 4

INE C SUPPLY OUTAGE DUE 11/08/2007

'ED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE. THIS FUEL MEETS EP
:QUIREMENTS FOR SULFUR (MAX .0015% SULFUR).

Hess Petroleum Company LLC

1601 E 20TH ST, FT LAUDERDALE FL 33316 (5100511)
BOL Number : 515349 REV: 0
Order Entry : 10/09/2007 14:01:38 Load order #3545
Start Load : 10/09/2007 14:01:38
End Load : 10/09/2007 14:15:51
FOLIO NUMBER : 2007-10 07
Company Registration Number : 4268

LOADING TICKET / BILL OF LADING

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of all charges.

SIGNATURE OF CONSIGNOR:

Hatachen Petroleum Company LLC

SOLD TO: 5 : MANSFIELD OIL CO OF GAINESVILLE INC

Customer Account Number : 2250026007O1000

Supplier : MPC Wholesale Unbranded Non C

SHIP TO: 026 : MANSFIELD OIL CO OF GAINESVILLE INC
MARIONS

FL

P.O. Number :
Requisition :

DEST :701

RECEIVED BY: : PENN TANK LINES
SCAC Code : PTAL
Trailer : 70

Carrier certifies that the cargo tank supplied for the shipment is a proper container for the transportation of this commodity.

Received subject to tariffs and/or contracts in effect on the date of issuance thereof.

Not a bill of lading when moved in a vehicle operated by the shipper or owner of product but merely a receipt for product on behalf of loader.

X :DRIVER

FINISHED PRODUCTS

PRODUCT NUMBER	CODE	DESCRIPTION	GROSS	NET	SEE NOTES BELOW
827	827	#2 MV15 DIESEL DYED	7501	7410	H, S, B

PRODUCTS BY COMPONENT

FINISHED PRODUCT COMPART #	CODE	COMPONENTS CODE & DESCRIPTION	GROSS	NET	TEMP	GRAV	TANK	MARKER PERCENT
1	827	U04 #2 MV15 DIESEL DYED DA1 RED DYE DA2 LUBRICITY	3300	3260	86.2	35.9	35-1	100.0
2	827	U04 #2 MV15 DIESEL DYED DA1 RED DYE DA2 LUBRICITY	1501	1482	86.1	35.9	35-1	100.0
3	827	U04 #2 MV15 DIESEL DYED DA1 RED DYE DA2 LUBRICITY	2700	2668	86.0	35.9	35-1	100.0

HAZARD INFORMATION AND NOTES:

	DOT Shipping Name		Gallons
Diesel Fuel	Combustible Liquid	NA1993 PG III	7501

Total Quantity on Cargo Tank 7501

24 HOUR EMERGENCY PHONE NUMBER 1-877-627-5463

EPA Facility Registration Number: 81129

See Note #1 on Back

Additional Referenced Notes Located on Back

Refer to back of OSHA label information.
Refer to Material Safety Sheet (available on request) for important health and safety information.

Receipt is acknowledged of the above merchandise in good conditions and in the quantities indicated.

X :CONSIGNEE

CARRIER

Form 41874-A Rev. 4/06

****** INVOICE ****** PAGE: 1

INVOICE NUMBER: 0191774-IN
INVOICE DATE: 10/19/08

Macmillan Oil Company of Fla., Inc.
2955 East 11th Avenue
Hialeah, FL 33013
FEIN: 59-0648243

ORDER NUMBER: 32454TR
ORDER DATE: 10/19/08
SALESPERSON: 0000
CUSTOMER NO: 10-CIHO

SOLD TO:
CITY OF HOMESTEAD
790 N. HOMESTEAD BOULEVARD

HOMESTEAD , FL 33030-6299

SHIP TO:
UTILITIES DEPARTMENT (C)
675 N FLAGLER AVENUE
PO # 090385
BID3143-9/18
HOMESTEAD , FL 33030-6173
BOL# 541535

CUSTOMER P.O.	SHIP VIA	F.O.B	TERMS
090-385			Net 30 Days (from delivery)

ITEM NO.	UNIT	ORDERED	SHIPPED	BACK ORD	PRICE	AMOUNT
	OPIS $	2.4282				
	FFSA $	0.0220				
2300	GAL	7498.00	7406.00	0.00	2.4502	18,146.18
RED - ULTRA LOW SULFUR DIESEL			WHSE: 377			
Pollutant Tax					.0207	153.45
Oil Spill Liability Fund					.0012	8.89
FET - L.U.S.T. - Dyed					.0010	7.41
					2.4731	18,315.93
/UAP						-362.92
UAP User Access Program - 2.0%						
/IG						45.37
MiamiDade Audit Inspector .25%						

TOTAL TOTAL TAXES AND FEES $ 578.04

3920

NET INVOICE:	18,724.22
LESS DISCOUNT:	.00
FREIGHT:	.00
SALES TAX:	.00
INVOICE TOTAL:	18,724.22

Marathon Petroleum Company LLC
501 SE 29TH ST, FT LAUDERDALE [illegible] #510064
BL Number : 541536 REV: 0
Order Entry : 10/19/2008 10:04:52 Load Order #553
Start Load : 10/19/2008 10:04:52
End Load : 10/19/2008 10:16:54
FOLIO NUMBER : 2008-10 13
Company Registration Number : 4268

LOADING TICKET / BILL OF LADING

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of all charges.

SIGNATURE OF CONSIGNOR:
Marathon Petroleum Company LLC

SOLD TO: 0 Sun Refining & Marketing Co

Customer Account Number : 9631400
07876808010000

Supplier : Sun Refining & Marketing Co

SHIP TO: 5310 : MACMILLAN OIL CO. OF FL
VARIOUS FL DEST
VARIOUS
FL

P.O. Number :
Requisition : DEST :25313

RECEIVED BY:
119 : MACMILLAN OIL CO OF FL
SCAC Code : MPFL
Trailer : 1377

This is to certify that the herein-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Received subject to tariffs and/or contracts in effect on the date of issuance thereof.

Not a bill of lading when moved in a vehicle operated by the shipper or owner of product but merely a receipt for product on behalf of loader.

X ______________________ :DRIVER

1002497 Laughlin, Thomas

HAZARD INFORMATION

DOT Shipping Name Gallons
NA1993, Fuel oil, Combustible Liquid, PG III 7498

Total Quantity 1 Cargo Tank 7498

24 HOUR EMERGENCY PHONE NUMBER 1-877-627-5463

FINISHED PRODUCTS

PRODUCT NUMBER	CODE	DESCRIPTION	GROSS	NET	SEE NOTES BELOW
827	827	#2 MV15 DIESEL DYED	7498	7406	H.S.8

PRODUCTS BY COMPONENT

FINISHED PRODUCT COMPART & CODE		COMPONENTS CODE & DESCRIPTION		GROSS	NET	TEMP	GRAV	TANK	TARGET PERCENT
1	827	U04	#2 MV15 DIESEL DYED DA1 RED DYE DA9 LUBRICITY	2499	2469	86.0	36.8	35-9	100.0
2	827	U04	#2 MV15 DIESEL DYED DA1 RED DYE DA9 LUBRICITY	999	987	86.8	36.8	35-9	100.0
4	827	U04	#2 MV15 DIESEL DYED DA1 RED DYE DA9 LUBRICITY	1800	1778	85.0	36.8	35-9	100.0
5	827	U04	#2 MV15 DIESEL DYED DA1 RED DYE DA9 LUBRICITY	2200	2172	86.3	36.8	35-9	100.0

NOTES

EPA Facility Registration Number: 81128
See Note #1 on Back

Additional Referenced Notes Located on Back

7406

Refer to back of OSHA label information.
Refer to Material Safety Sheet (available on request) for important health and safety information.

Receipt is acknowledged of the above merchandise in good conditions and in the quantities indicated.

X ______________________ :CONSIGNEE

CARRIER

Form 41874 A Rev. 2/08

Macmillan Oil Company
OF FLORIDA, INC.
2955 E. 11th AVENUE
HIALEAH, FLORIDA 33013

PHONE (305) 691-7814
FAX (305) 691-7817

www.macmillanoil.com

A Finance Charge of 1 1/2% per month (18% annum) will be charged on all invoices not paid within terms of the sale.

INVOICE NUMBER: 0246292-IN
INVOICE DATE: 9/25/2010

ORDER NUMBER: 64443YA
ORDER DATE: 9/25/2010
SALESPERSON: 0000
CUSTOMER NO: 10-CIHO

CITY OF HOMESTEAD RFP 683
790 N HOMESTEAD BOULEVARD
UAP - 01-3303-0031
HOMESTEAD, FL 33030-6299

GORDON W IVEY POWER PLANT
675 N FLAGLER AVENUE
PO 101921
HOMESTEAD, FL 33030-6173

BOL# 423694

CUSTOMER P.O.	SHIP VIA	F.O.B.	TERMS
101921			Net 30 Days (from delivery)

ITEM NO.	UNIT	ORDERED	SHIPPED	PRICE	AMOUNT
PLATTS $ 2.1515					
DIFF. $ 0.1000					
2300	GAL	7,500.00	7,406.00	2.25450	16,696.83
DYED RED - ULTRA LOW SULFUR DI		Whse: 319			
POLLUTANT TAX				0.02071	153.38
FEDERAL LUST TAX				0.00100	7.41
OIL SPILL LIABILITY FUND				0.00191	14.15
				2.27812	16,871.77
/UAP					333.94
UAP User Access Program - 2.0%					
/IG					41.74
MiamiDade Audit Inspector .25%					
TOTAL TAXES AND FEES $ 550.62					

DEPT: Utilities DIV: Fuel Supplies
REQ No.: P.O. No.: 101921
PARTIAL: FINAL DATE: 10/1/10

FUND	C/C	OBJECT	PROJ.	AMOUNT
401	2300	531.3150	E647	224,488.14

224,488.14

APPROVED AUTHORIZED DATE: 10/1/10

10/8/13

Net Invoice:	17,247.45
Less Discount:	0.00
Freight:	0.00
Sales Tax:	0.00
Invoice Total:	17,247.45
Less Deposit:	0.00
	17,247.45

96,240 gallons

Received: 9/25 - 9/30/10

Transmontaigne Partners L.P.
PORT EVERGLADES NORTH #: 0012917
2401 EISENHOWER BLVD
FORT LAUDERDALE, FL 33316
BILL OF LADING

Order Number:
Order Date: 09/25/10
Folio Number: 09/016
Input Serial Number: 6644

BOL Number: 2473694
Load Start: 09/25/10 05:39
Load End: 09/25/10 06:01
Order Type: Rack
Loadspot Number: 02

Stockholder/Customer
Type:
0000001
TRANSMONTAIGNE PRODUCT SERVICE
TR00002
CONTRACT ACCOUNTS-TPSI

Retail or Petrolex #
POP
Terminal EPA # 00000D1870
Destination EPA #

Account/Consignee
Account #: S933600

MACMILLAN OIL COMPANY-ESC

County:
Consignee # 0057894
MACMILLAN OIL CO ESC (FL)

VARIOUS, FL

RECEIVED BY
TN79619 HIALEAH TRANSPORT LLC
SCAC #: HIXL
Tractor #:
Trailer #: 319

DRIVER
Signature:
X
0001777 AVALOS YASSER

This is to certify that the herein named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

DELIVERY INSTRUCTIONS:
BOL COMMENTS: ABOVE-SUPPLIER IS RESPONSIBLE FOR DESTINATION STATE TAX ON MOTOR FUEL
* * * FOR EMERGENCY INFORMATION, CALL CHEMTREC: (800)424-9300 * * *

PRODUCT TOTALS (GALLONS)

PRODUCT	DESCRIPTION	GROSS	NET	TEMP	GRAV	OCT	RVP	TANK	MESSAGE NUMBER(S)
UL4343	DYED DSL(15PPM)NRLM	7500	7406	86.6	35.4	30.00			1799,2201,1556,1798
	TOTAL	7500	7406						

H20 MSG: NA1993, DIESEL FUEL, 3, PG III, 1 Cargo Tank, USE ERG GUIDE 128

MSG #	MESSAGE
1799	DYED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE. MEETS OR EXCEEDSALL APPLICABLE LUBRICITY COMPLIANCE STANDARDS AS PER ASTM D975-04C.
2201	DYED 15 PPM SULFUR DIESEL FUEL. 15 PPM SULFUR (MAX) DYED ULTRA-LOW SULFUR DIESEL FUEL. FOR USE IN ALL NONROAD DIESEL ENGINES. NOT FOR USE IN HIGHWAY VEHICLES OR ENGINES EXCEPT FOR TAX EXEMPT USE IN ACCORDANCE WITH SECTION 4082 OF THE INTERNAL REVENUE CODE.
1556	DYED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE.
1798	DIESEL MEETS OR EXCEEDS ALL APPLICABLE LUBRICITY COMPLIANCE STANDARDS AS PER ASTM D975.

PRODUCT BY COMPARTMENT

LOT	COMP	RISER	PRODUCT ID	PRODUCT NAME	GROSS	NET	TEMP	GRAV
	01	23	UL4343	DYED DSL(15PPM)NRLM	2500	2469	86.3	35.4
			UL4300	#2 DIESEL (15PPM) BASE	2500	2469	86.3	35.4
			000030	RED DYE	0.2170	0.2170	86.3	60.0
			000042	LUBRICITY ADDITIVE	0.2710	0.2710	86.3	60.0
	02	23	UL4343	DYED DSL(15PPM)NRLM	1500	1481	86.9	35.4
			UL4300	#2 DIESEL (15PPM) BASE	1500	1481	86.9	35.4
			000030	RED DYE	0.1370	0.1370	86.9	60.0
			000042	LUBRICITY ADDITIVE	0.1610	0.1610	86.9	60.0
	03	23	UL4343	DYED DSL(15PPM)NRLM	1000	987	86.9	35.4
			UL4300	#2 DIESEL (15PPM) BASE	1000	987	86.9	35.4
			000030	RED DYE	0.0870	0.0870	86.9	60.0
			000042	LUBRICITY ADDITIVE	0.1110	0.1110	86.9	60.0
	05	23	UL4343	DYED DSL(15PPM)NRLM	2500	2469	86.7	35.4
			UL4300	#2 DIESEL (15PPM) BASE	2500	2469	86.7	35.4
			000030	RED DYE	0.2170	0.2170	86.7	60.0
			000042	LUBRICITY ADDITIVE	0.2710	0.2710	86.7	60.0

SUBJECT TO CORRECTION OF CLERICAL ERRORS

CUSTOMER SIGNATURE X

CUSTOMER TANKS

NO CUSTOMER TANKS ON FILE

21-JAN-11

Project Manager: **Ken Konkol**
City of Homestead Energy Services
675 North Flagler Ave.
Homestead, FL 33030

Reference: XENCO Report No: **403757**
Diesel Fuel
Project Address:

Ken Konkol:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 403757. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 403757 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Terrence Anderson
Office Manager

CASE NARRATIVE SUMMARY

Client Name: *City of Homestead Energy Services*
Project Name: *Diesel Fuel*

Project ID:
Work Order Number: *403757*

Report Date: *21-JAN-11*
Date Received: *14-JAN-11*

Analysis was subcontracted to KMT Laboratory, 600E 17th Street, S. Newton IA, 50208
See complete analytical report attached.

Sample designation

1. (HST-001) - Biodiesel

2. (HST-002) - Diesel

Terrence Anderson
Office Manager

KMT Labs
600 E 17th St S
Newton, IA 50208

ANALYTICAL REPORT

January 21, 2011

Work Order: 91A0008

Report To
Terrence Anderson
Xenco Laboratories
3231 N.W. 7th Avenue
Boca Raton, FL 33431

Project : Fuel Testing

PO : WO # 403757

Analyte	Result		Method	Limits
ID:HST-001		Matrix:Biodiesel/B100		Collected: 01/14/11 13:30
CFPP	(4.00 C / 39.20 F)	C/F	ASTM D6371	
Calorific Value	16590	BTU/lb	ASTM D240	>18000
Sulfur	1.7	ppm (wt)	ASTM D2622	<15
ID:HST-002		Matrix:Diesel Fuel		Collected: 01/14/11 13:00
CFPP	(-13.0 C / 8.60 F)	C/F	ASTM D6371	
Calorific Value	19070	BTU/lb	ASTM D240	>18000
Sulfur	7.5	ppm (wt)	ASTM D2622	<15

End of Report

Keystone Materials Testing, Inc.

Josh King
Business Manager

CHAIN OF CUSTODY RECORD

Page 1 of 1

Lab W.O.: 403737

Field Billable Hrs:

XENCO Laboratories
Environmental Asbestos Radiochemistry
xenco.com

Atlanta: 6017 Financial Dr. Norcross, GA 30071 770-449-8800
Boca Raton: 3231 NW 7th Ave, Boca Raton, FL 33431 561-447-7373
Miami: 14100 Palmetto Frontage Rd, Miami Lakes, FL 33016 305-823-8500
Orlando: 5448 Hoffner Av. Ste 408 Orlando, FL 32812 409-429-8022
Tampa: 2505 North Falkenburg Rd, Tampa, FL 33619 813-620-2000

*** Container Type Codes**

VA Vial Amber		ES Encore Sampler	
VC Vial Clear		TS TerraCore Sampler	
VP Vial Pre-preserved		AC Air Canister	
GA Glass Amber		TB Tedlar Bag	
GC Glass Clear		ZB Zip Lock Bag	
PA Plastic Amber		PC Plastic Clear	

Other _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____
Example: 4ozGC = 4oz Glass Clear
40mlVP = 40ml Vial Pre-preserved

Company: City of Homestead Utilities
Address:
PO #
Quote #

TAT Work Days = D Need results by: _____ Time: _____
Std (5-10D) 6Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____

City: Homestead State: FL Zip:
PM/Attn: Phone:
email: Fax:
Project Name:
Project ID:
Sampler Signature:

Circle One Event: Daily Weekly Monthly
Quarterly Semi-Annual Annual N/A

ANALYSES REQUESTED

**** Preservative Type Codes**

A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. ZnAc&NaOH
D. NaOH	H. $NaHSO_4$	L. Asbc Acid&NaOH

O _____

^ Matrix Type Codes

GW Ground Water		S Soil/Sediment/Solid	
WW Waste Water		W Wipe	
DW Drinking Water		A Air	
SW Surface Water		O Oil	
OW Ocean/Sea Water		T Tissue	
PL Product-Liquid		U Urine	
PS Product-Solid		B Blood	
SL Sludge			

Other _____

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Composite or Grab	Field Filtered	Total # of containers	Cont Type *	Pres Type**	Sulfur ASTM D2622	BTU Content ASTM D4809-10	ASTM D4371 CAPP	Hold Sample (CALL) Additions:	# Cont	Lab Only:
								GC							
1	Diesel	1411	1330				1			✓	✓				
2	Bio Diesel	1411	1				1			✓	✓	✓			
3															
4															
5															
6															
7															
8															
9															
10															

STE Tolerance

REMARKS

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C
CTLs, TRRP DW NPDES LAST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL IL Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1. 3.0 2. 3.

	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1			1/14/11	1700			1/14/11	1700
2			1/14/11	1700		Xenco	1/14/11	1740
3								
4								

Lab Use Only

	YES	NO	N/A
Non-Conformances found?			
Samples intact upon arrival?			
Received on Wet Ice?			
Labeled with proper preservatives?			
Received within holding time?			
Custody seals intact?			
VOCs rec'd w/o headspace?			
Proper containers used?			
pH verified-acceptable, excl VOCs?			
Received on time to meet HT's?			

FTS: Philadelphia 610-955-5649 South Carolina 803-543-8099 B&A Laboratories: Corpus Christi 361-884-0371 Dallas 214-902-0300 Houston 281-240-4200 Odessa 432-563-1800 San Antonio 210-509-3334

C.O.C. Serial #
282233

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: City of Homestead Utilities

Date/ Time Received: 1/14/11 1740

WO ID #: 403757

Initials of Sample Receipt Person: AK

Checklist completed by, date/time: TH 1/14/11 2100

Acceptable Temperature Range: 2-6° C
Acceptable pH Range(s):
<2 for samples preserved with HNO3, HCL, H2SO4
>10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH

Temperature Measuring device used: TDS

Sample Receipt Checklist

					Comments
#1	*Temperature of cooler(s)?	# of Coolers 1	1 / 1 3.0 °C		
#2	*Shipping container in good condition?	(YES)	No	None	
#3	*Samples received on ice?	(YES)	No	N/A	Blue / Water
#4	*Custody Seals intact on shipping container/ cooler?	Yes	No	(N/A)	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	(N/A)	
#6	*Custody Seals Signed and dated for Containers/coolers	Yes	No	(N/A)	
#7	*Chain of Custody present?	(YES)	No		
#8	Sample instructions complete on Chain of Custody?	(YES)	No		
~~#9~~	~~*Any missing/extra samples?~~	~~Yes~~	~~(NO)~~		
#10	Chain of Custody signed when relinquished/ received?	(YES)	No		
#11	Chain of Custody agrees with sample label(s)?	(YES)	No		
#12	Container label(s) legible and intact?	(YES)	No		
#13	Sample matrix/ properties agree with Chain of Custody?	(YES)	No		
#14	Samples in proper container/ bottle?	(YES)	No		
#15	Samples properly preserved?	(YES)	No	N/A	See Attached Preservation Sheet if NO
#16	Sample container(s) intact?	(YES)	No		
#17	Sufficient sample amount for indicated test(s)?	(YES)	No		
#18	All samples received within hold time?	(YES)	No		
#19	Subcontract of sample(s)?	Yes	(NO)		
#20	VOC samples have zero headspace (less than 1/4 inch bubble)?	YES	No	(N/A)	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

pH Check: Date/Time: Analyst: pH Device/Lot Number:

Nonconformance Documentation

Contact: Contacted by: Date/ Time:

Regarding:

Corrective Action Taken:

XENCO LABORATORIES
Container Receipt Verification Form

Work Order Number: 403757 **Chain of Custody Number(s):** _____

Tests		Sulfur BTU Calc																										
Container Type/ Pres.	gal GA/	32oz N/M GA/Cool	32oz N/M GA/	32oz N/M GA/	32oz W/M GA/	VOA/	VOA/	VOA/	120mL P w. Pill/	4oz Plastic/	4oz Plastic/	250mL HDPE/	250mL HDPE/	500mL HDPE/	500mL HDPE/	500mL HDPE/	1L HDPE/	1L HDPE/	9oz GC/	9oz GC/	9oz GC/	4oz GC/	4oz GC/	2oz GC/	2oz GC/	Tedlar Bag	Ampules/	Other/	Comments
1		1																										
2		1																										
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												

Abbreviations:

Gal GA = One gallon amber
32oz N/M GA = 32 oz Amberglass
VOA = 40mL vials
32oz W/M GA = 32 oz Wide Mouth Amberglass

1L HDPE = 1L (1000mL) Plastic Bottle
500mL HDPE = 500mL Plastic Bottle
250mL HPDE = 250mL Plastic Bottle

8oz GC = 8oz Soil Jar
4oz GC = 4oz Soil Jar
2oz GC = 2oz soil jar

120mL Plastic w Pill = BacT
Zip = Ziplock Bag
4oz Plastic = 4oz Plastic Bottle

HCl = Hydrochloric Acid
H2SO4 = Sulfuric Acid
NaOH = Sodium Hydroxide
MeOH = Methanol
HNO3 = Nitric Acid
ZnAC = Zinc Acetate
Na2S2O3 = Sodium Thiosulfate

NH4Cl2 = Ammonium Chloride
DI H2O = DI Water
MCAA = Monochloroacetic Acid

Reviewed By: _____

Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

October 03, 2013

Ken Knokol
City of Homestead
675 North Flagler Ave.
Homestead, FL 33030

RE: Project: Fuel Sample
Pace Project No.: 35109113

Dear Ken Knokol:
Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Terrence Anderson

terrence.anderson@pacelabs.com
Project Manager

Enclosures

cc: Billy Branch, City of Homestead

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CERTIFICATIONS

Project: Fuel Sample
Pace Project No.: 35109113

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Pompano Beach, FL 33064
954-582-4300

SAMPLE SUMMARY

Project: Fuel Sample
Pace Project No.: 35109113

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35109113001	**Fuel Sample**	Non Aqueous	09/19/13 10:00	09/19/13 17:45

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SAMPLE ANALYTE COUNT

Project: Fuel Sample
Pace Project No.: 35109113

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35109113001	**Fuel Sample**	ASTM D4239-05	ANS	1	PASI-A
		ASTM D482-95	ANS	1	PASI-A
		ASTM D5468-02	ANS	1	PASI-A

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ANALYTICAL RESULTS

Project: Fuel Sample
Pace Project No.: 35109113

Sample: Fuel Sample **Lab ID: 35109113001** Collected: 09/19/13 10:00 Received: 09/19/13 17:45 Matrix: Non Aqueous Liquid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
ASTM D4239-05 Sulfur	Analytical Method: ASTM D4239-05								
Sulfur	ND	% (w/w)	0.020		1		10/02/13 09:30		N2
ASTM D482-95 ASH	Analytical Method: ASTM D482-95								
Percent Ash	ND	% (w/w)	0.010		1		10/03/13 09:36		N2
ASTM D5468-02 BTU	Analytical Method: ASTM D5468-02								
British Thermal Units	**20140**	BTU/lb	50.0		1		10/01/13 17:15		N2

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Fuel Sample
Pace Project No.: 35109113

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

N2 The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fuel Sample
Pace Project No.: 35109113

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35109113001	Fuel Sample	ASTM D4239-05	WET/27391		
35109113001	Fuel Sample	ASTM D482-95	WET/27407		
35109113001	Fuel Sample	ASTM D5468-02	WET/27359		

WO# : 35109113

35109113

CHAIN OF CUSTODY RECORD

LAB W.O #______ Quote:______ Page 1 of 1

Company Name: City of Homestead PO#

Address:

City: State: Zip:

Attn: Ken Konkol Fax#

email: Phone:

Project Name: Fuel Sample Proj #

Sampler Signature: [signature]

Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

LAB ANALYSIS

Parameters: Sulfur | BTU | Specific gravity Ash

EXAMPLE: Diss. Lead 6010

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code			Total # of containers	Sulfur	BTU	Specific gravity Ash							REMARKS
1	Fuel sample	9/19/13	10:00	Product	N		1	✓	✓	✓							
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	55/3

Y N | Today 1D 2D 3D 4D 5D | Short Hold Y___ N___ | Circle QA/QC Report Level: 1 2 3 4 CLP AFCEE QAPP Other | EDD (Fees May Apply): ADaPT SEDD ERPIMS TSV CSV Other | COC Condition: OK Incomplete | Required State Certification: FL GA SC NC NJ PA LA TX IL

Coolers #'s - Temp °C: 1___ 2___ 3___ 4___ 5___

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	[signature]	Pace	9/19/2013	16:30	[signature]	[signature]	9/19/13	16:30
2	[signature]	[signature]	9/19/13	17:45	TD	Pace	9/19/13	1741
3								
4								

Container Type Codes

AV Amber Vial; CV Clear Vial; P Plastic; AL Amber Liter; CL Clear Liter; AP Amber Plastic; AG Amber Glass; SJ Soil Jar; Other; PPV Prepreserved vial; ES Encore Sampler; PPV Prepreserved vial; PL C Plastic container; PL J Plastic Jar; Z Ziploc bag; TB Tedlar bag; WP Whirl pak; G Gallon Jug; TC Terra-core

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other___ 40ml 500ml 250ml 125 ml

Example: 4ozP = 4oz Plastic, 8ozSJ= 8oz Soil Jar

Matrix Codes

SD Solid Waste; GW Ground Water; EFF Effluent; AFW Analyte Free H20; WW Waste Water; DW Drinking Water; SW Surface Water; ML Misc. Liquid; OL Oil; SL Sludge; SO Soil Sediment; AQ Aqueous; NA Nonaqueous; PE Petroleum; O Other___ (Please specify)

Preservative Type Codes

A. None; B. HNO3; C. H2SO4; D. NaOH; E. HCL; F. MeOH; G. Na2S2O3; H. NaHSO4; I. Ice; J. MCAA; K. Zn Acetate; O. Other

Lab Use Only	YES	NO	N/A
Non-Conformance Found?			
Samples INTACT upon arrival?			
Received on Wet Ice?			
Proper Preservatives Indicated?			
Received within holding time?			
Custody seals Intact?			
Volatiles rec'd without headspace?			
Proper Containers Used?			

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: September 23, 2011
	Document No.: F-FL-C-007 rev. 04	Issuing Authorities: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: C.D. Hemsley Project #: _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals Intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used T108 Type of Ice: Wet Blue None

Cooler Temperature °C 4.7 (Visual) -0.1 (Correction Factor) 4.6 (Actual)

Date and Initials of person examining contents: JJS 9/14/18

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen? ☐ Yes ☐ No

Receipt of samples satisfactory: ☑ Yes ☐ No Rush TAT requested on COC:

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other: _____