

Bryan W. Shaw, Ph.D., *Chairman*
Buddy Garcia, *Commissioner*
Carlos Rubinstein, *Commissioner*
Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Protecting Texas by Reducing and Preventing Pollution

January 26, 2011

MR DOUG AGEE, PE
ENVIRONMENTAL ENGINEER
BARNETT GATHERING LP
810 HOUSTON ST
FORT WORTH TX 76102-6203

Permit by Rule Registration Number:	77442
Location/City/County:	From Old Decatur Rd/Interstate 820, go north on Old Decatur Rd, 3.65 miles west on Bailey Rd, 0.69 mile north, 0.2 mile, Saginaw, Tarrant County
Project Description/Unit:	Bailey Boswell Compressor Station
Regulated Entity Number:	RN104797626
Customer Reference Number:	CN603072885
New or Existing Site:	Existing
Affected Permit (if applicable):	None
Renewal Date (if applicable):	None

Barnett Gathering, L.P. has certified the emissions associated with the Bailey Boswell Compressor Station under Title 30 Texas Administrative Code §§ 106.352 and 106.512 following an increase in natural gas throughput. See attached certified emissions table. For rule information see:

http://www.tceq.state.tx.us/permitting/air/nav/numerical_index.html

No planned MSS emissions have been represented or reviewed for this registration. The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements. In addition, please be aware that the Commission is considering repeal and amendments to the permit by rule under which your facilities are registered and these changes may affect your authorization. Under the General Requirements for all Permit by Rules, § 106.2 states that particular requirements only apply "where construction is commenced on or after the effective date of the relevant permit by rule." For more information regarding the proposed rule changes, please see the following Web site:

<http://www.tceq.state.tx.us/rules/pendprop.html>

All analytical data generated by a mobile or stationary laboratory to support the compliance with an air permit must be obtained from a NELAC (National Environmental Laboratory Accreditation Conference) accredited laboratory. For additional information regarding the laboratory accreditation program, please see the following Web site which includes the accreditation and exemption information:

http://www.tceq.state.tx.us/compliance/compliance_support/qa/env_lab_accreditation.html

This certification is taken under the authority delegated by the Executive Director of the TCEQ. If you have questions, please contact Mr. Monico Banda at (512) 239-1589.

Sincerely,

A handwritten signature in cursive script, appearing to read "Anne M. Inman".

Anne M. Inman, P.E., Manager
Rule Registrations Section
Air Permits Division

cc: Air Section Manager, Region 4 - Fort Worth
Attachment

Project Number: 161905

Bryan W. Shaw, Ph.D., *Chairman*
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

COPY

October 7, 2011

Mr. Doug Agee, Senior Environmental Engineer
Barnett Gathering LP
810 Houston St Ste 2000
Fort Worth TX 76102-6203

Re: Focused Investigation for Natural Gas Production Facility at: Bailey Boswell Compressor Station, Located 5296 W Bailey Boswell Rd, Fort Worth, Tarrant County, Texas
TCEQ ID No.: RN104797626; CN603072885

Dear Mr. Agee:

On August 1, 2011, Mrs. Jessica Mock of the Texas Commission on Environmental Quality (TCEQ) DFW Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for air quality. No violations were documented during the investigation. A copy of the investigation report is attached per your request.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact me in the DFW Region Office at 817/588-5885.

Sincerely,

A handwritten signature in cursive script that reads "Jaret Wessel".

Jaret A. Wessel
Barnett Shale Team Leader
DFW Region Office

JAW/axa

Enclosure: Copy of Investigation Report w/Attachments

Y9103

Texas Commission on Environmental Quality
Investigation Report
 Barnett Gathering, L.P.
 CN603072885

COPY

BAILEY BOSWELL COMPRESSOR STATION

RN104797626

Investigation # 944873
Investigator: JESSICA MOCK

Incident #
Site Classification
 MIN 16-25 FINS

Conducted: 08/01/2011 -- 08/01/2011

No Industry Code Assigned

Program(s): AIR NEW SOURCE
 PERMITS

Investigation Type : Compliance Investigation

Location : FROM INTX OF OLD
 DECATUR RD AND INTERSTATE 820 GO
 NORTH ON OLD DECATUR RD 3.65 MI
 WEST ON BAILEY RD 0.69 MI NORTH
 0.2 MI

Additional ID(s) : 77442

Address: ; ,

Activity Type : REGION 04 - DFW METROPLEX
 FIAIRNGP - AIR FIAIRNGP - FOC INV FOR
 NATGASPETRO FACILITY

Principal(s) :

Role	Name
RESPONDENT	BARNETT GATHERING LP
RESPONDENT	XTO ENERGY INC

Contact(s) :

Role	Title	Name	Phone
Regulated Entity Contact	SENIOR ENVIRONMENTAL ENGINEER	MR DOUG AGEE	
Notified	SENIOR ENVIRONMENTAL ENGINEER	MR DOUG AGEE	
Participated in Investigation	SENIOR ENVIRONMENTAL ENGINEER	MR DOUG AGEE	
Participated in Investigation	ENVIRONMENTAL HEALTH AND SAFETY COORDINATOR	MR KENNETH LIGHTFOOT	
Participated in Investigation	OPERATIONS FOREMAN	MR KIM BELL	

Other Staff Member(s) :

Role	Name
QA Reviewer	JARET WESSEL
Investigator	BRIAN YERKES
Supervisor	JARET WESSEL

BAILEY BOSWELL COMPRESSOR STATION - SAGINAW

8/1/2011 Inv. # - 944873

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Y900

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
AIR FOCUSED INVESTIGATION - GENERAL MONITORING	Bailey Boswell Compressor
AIR INVESTIGATION - EQUIPMENT MONITORING AND SAMPLING	Bailey Boswell Compressor
AIR FOCUSED INVESTIGATION - NGP FACILITY	Bailey Boswell Compressor

Investigation Comments :

INTRODUCTION

On August 1, 2011, Mrs. Jessica Mock, Environmental Investigator ('Investigator'), of the Texas Commission on Environmental Quality (TCEQ), Dallas/Fort Worth (DFW) Region office conducted a Focused Natural Gas Production (FNAIRNGP) Investigation at Barnett Gathering LP, Bailey Boswell Compressor Station, ('regulated entity' or 'site'). The site is located at 5296 W. Bailey Boswell Rd, Fort Worth, Tarrant County, Texas. The purpose of this investigation was to focus on reducing or eliminating emission that have the potential to impact the surrounding receptors or environment. Specifically, three storage tanks, one glycol dehydrator reboiler, and three compressors were included in the scope of the investigation. Facilities at the site are authorized under 30 Texas Administrative Code (TAC) §106.352 and 106.512. Mrs. Jessica Mock was accompanied by Mr. Brian Yerkes, TCEQ DFW Region Air Section investigator.

On July 26, 2011, Mr. Doug Agee was contacted to set up the investigation at the site. It was agreed that the on-site portion of the investigation would be conducted on August 1, 2011 at 9:00 AM. Mr. Doug Agee, Kim Bell (Operations Foreman), and Kenneth Lightfoot (Environmental Health & Safety Coordinator) participated in the investigation.

The land use in the area directly surrounding the site is rural. The landscape surrounding the site is used primarily residential.

Daily Narrative:

Mrs. Mock and Mr. Yerkes (the investigators) arrived in the area at 9:20 AM on August 1, 2011. There were partly cloudy skies with a temperature of 94.5 degrees Fahrenheit and a relative humidity of 35.9%. The wind direction was noted to be from the southwest at an average speed of 4.8 miles per hour (mph) with a maximum speed of 6.8 mph. No odors were noted in the areas to the around the site.

The investigators entered the site at 9:28 AM with the site representatives. It was noted that three storage tanks, two compressors, one glycol dehydrator reboiler, one slug catcher, one waste oil tank, and one separator were constructed and in operation at the site. A third compressor was not in operation at the time of the investigation. The investigators monitored the site equipment using a GasFindIR (GFIR) camera and a Toxic Vapor Analyzer (TVA). During the investigation, emissions were noted using the GFIR to be coming from one of the tanks, from the glycol dehydrator reboiler, and from two of the engines. The emissions noted from the reboiler appeared to be mostly water vapor. Emissions from compressors are expected as part of normal operations. The emissions noted from the tank were being caused by a dump valve on an engine being stuck open, this was corrected during the investigation and the emissions stopped. The maximum level of hydrocarbon compounds detected by using the TVA was 100 ppm. The TVA maximum was detected downwind of the tanks. The investigators walked the perimeter of the site pad to check for odors. A strong intermittent brine odor was noted during the investigation. Visible emissions were observed to be coming from the reboiler. A 30-minute Summa sample was collected downwind of the site at 9:43 AM (Canister 20412/OFC-138). The results are included as Attachment 1.

The investigators left the site at 10:25 AM.

The investigator reviewed the emission calculations provided by the company, the City of Fort Worth report, and the TCEQ certified emissions to determine the best estimate of emissions from the site. The City of Fort Worth report shows the NOx from this facility to be 24.33 tpy and the CO to be 545.08 tpy. The TCEQ certified emissions show the NOx to be 24.96 and CO to be 49.21 tpy and that the engine emissions are controlled with NSCR catalysts. The manufacturer emission factors for the Waukesha L7044 engines on this site have an emission factor for NOx of 12.60 g/hp-hr and CO of 13.80 g/hp-hr. The Non Selective Catalytic Reduction (NSCR) catalysts are represented to have control efficiencies of 96% for NOx and 93% for CO which would make the emission factor after controls 0.50 g/hp-hr for NOx and 1.00 g/hp-hr for CO.

The most recent stack emission study was conducted in April 2011 for ENG-1 and ENG-3 and in July 2011 for ENG-2. These show the following:

ENG-1 (Serial #C15212/1) - NOx - 0.21 g/hp-hr, CO - 0.74 g/hp-hr

ENG-2 (Serial #C15485/1) - NOx - 0.03 g/hp-hr, CO - 0.43 g/hp-hr

ENG-3 (Serial #C15487/1) - NOx - 0.04 g/hp-hr, CO - 0.36 g/hp-hr

Barnett Gathering represented 0.50 g/hp-hr NOx and 1.00 g/hp-hr to allow for operational flexibility. The investigator also requested that Mr. Agee provide documentation for each Air Fuel Ratio (AFR) controller that the required maintenance had been performed and documentation of the proper operation of the engines as recorded by the measurements of NOx and carbon monoxide (CO) emissions for each occurrence of the engine maintenance had been completed for the last year. Mr. Agee provided all of the requested documentation on August 10, 2011.

According to site observations and company provided emission calculations this site was determined to be in compliance with 30 Texas Administrative Code (TAC) §106.352 and 106.512 at the time of the investigation.

Exit Interview:

On August 9, 2011, Mr. Agee was sent an exit interview requesting additional information and records; this is included as Attachment 2. Customer Survey #48210 was provided to Mr. Agee during the investigation.

GENERAL FACILITY AND PROCESS INFORMATION

Process Description:

The Bailey Boswell Compressor Station is a gas compression facility. Sweet natural gas from surroundings wells is received at the inlet separators. After separation; (1) natural gas is dehydrated, compressed using three 1,680-hp Waukesha 7044 engine driven compressors, and sent down the sales line and (2) liquids are truck loaded offsite.

BACKGROUND

The regulated entity has a compliance history rating of 3.01 and a performance classification of average by default. The customer has a compliance history rating of 2.82 and a performance classification of average.

Monitoring Results:

Monitoring was conducted during this investigation using a GasFindIR camera and the TVA. The maximum concentration of hydrocarbon compounds detected using the TVA on site was 100 ppm. During the investigation emissions were noted using the GFIR to be coming from one of the tanks, from the glycol dehydrator reboiler, and from two of the engines. A 30-minute Summa sample was collected downwind of the site at 9:43 AM (Canister 20412/OFC-138). The results showed no contaminants in concentrations above either the applicable long or short term Air Comparison Monitoring Values (AMCVs). A copy of these results has been attached as Attachment 1.

BAILEY BOSWELL COMPRESSOR STATION - SAGINAW

8/1/2011 Inv. # - 944873

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Current Enforcement Actions:

No violations are alleged as a result of this investigation.

Agreed Orders, Court Orders and Other Compliance Agreements:

There are no current air quality related orders or compliance agreements associated with this regulated entity.

Prior Enforcement Issues:

There have been no air quality related prior enforcement issues associated with this regulated entity in the five years prior to this investigation.

Complaints:

A review of the region files indicates there has been one previous air quality related complaint filed against this entity in the five years prior to this investigation. For additional information please reference investigation number 828682, no violations were alleged.

ADDITIONAL INFORMATION/RECOMMENDATIONS

Conclusions and Recommendations:

No violations are being alleged as a result of this investigation.

Additional Issues:

No additional issues were noted as a result of this investigation.

No Violations Associated to this Investigation

Signed *J. Mock*
Environmental Investigator

Date 9-28-11

Signed *Stut Wepel*
Supervisor

Date 9/30/11

Attachments: (in order of final report submittal)

Enforcement Action Request (EAR)

Letter to Facility (specify type) : GCL

Investigation Report

Sample Analysis Results

Manifests

NOR

Maps, Plans, Sketches

Photographs

Correspondence from the facility

Other (specify) :

Exit Interview



TCEQ
DFW Region

Attachment 1

Sample Results

Customers: Barnett Gathering LP.
CN603072885

Regulated Entity: Bailey Boswell Compressor Station
RN104797626

Investigation Number: 944873
Investigation Date: August 1, 2011
Investigator: Jessica Mock
Number of Pages: 5



Texas Commission on Environmental Quality

Laboratory and Quality Assurance Section

P.O. Box 13087, MC-165

Austin, Texas 78711-3087

(512) 239-1716

Laboratory Analysis Results

ACL Number: 1108018

ACL Lead: David Manis

Region: T04

Date Received: 8/3/2011

Project(s): Barnett Shale

Facility(ies) Sampled	City	County	Facility Type
Barnett Gathering	Fort Worth	Tarrant	

Laboratory Procedure(s) Performed:

Analysis: AMOR006

Determination of VOC Canisters by GC/MS Using Modified Method TO-15

Procedure:

Prior to analysis, subatmospheric samples are pressurized to twice the collected volume using a sample dilution system. For analysis, a known volume of a sample is directed from the canister into a multitrapp cryogenic concentrator. Internal standards are added to the sample stream prior to the trap. The concentrated sample is thermally desorbed and carried onto a GC column for separation. The analytical strategy involves using a GC with dual columns that are coupled to a mass selective detector (MSD) and a flame ionization detector (FID). Mass spectra for individual peaks in the total ion chromatogram are then used for target compound identification and quantitation. The fragmentation pattern is compared with stored spectra taken under similar conditions in order to identify the compound. For any given compound, the intensity of the quantitation fragment is compared with the system response to the fragment for known amounts of the compound. This establishes the compound concentration in the sample. For non-target compound peaks which are at least one-half the height of the internal standard, a library search is performed in an attempt to identify the compound solely upon fracture patterns. These tentatively identified compounds (TIC's) are reported as a sample specific footnote. Accurate quantitation of TICs is not possible. The FID is used for the quantitation of ethane, ethylene, acetylene, propylene and propane and identification is based on matching retention times of standards containing known analytes.

Sample(s) Received

Field ID Number: 20412-080111

Laboratory Sample Number: 1108018-001

Sampled by: Jessica Mock

Sampling Site: Bailey Boswell Compressor Station

Date & Time Sampled: 08/01/11 09:43:00 Valid Sample: Yes

Comments:

Canister 20412 was used to collect a 30-minute downwind sample using OFC-138.

Please note that this analytical technique is not capable of measuring all compounds which might have adverse health effects. For questions on the analytical procedures please contact the laboratory manager at (512) 239-4894. For an update on the health effects evaluation of these data, please contact the Toxicology Division at (512) 239-1795.

Analyst: Jaydeep Patel
Jaydeep Patel

Date: 08/11/11

Reviewed By: David Manis (Acting)
David Manis (Acting)

Date: 8/11/11

Technical Specialist: David Manis
David Manis

Date: 8/11/11

Laboratory Analysis Results

ACL Number: 1108018

Analysis Code: AMOR006

Note: Results are reported in units of parts per billion by volume (ppbv)

Lab ID		1108018-001					
Field ID		20412-080111					
Canister ID		20412					
Analysis Date		08/08/11					
Compound	LOD	Concentration	SDL	Flags**	Concentration	SDL	Flags**
ethane	0.50	160	1.0	T,D1			
ethylene	0.50	0.78	1.0	J,T,D1			
acetylene	0.50	ND	1.0	T,D1			
propane	0.50	11	1.0	T,D1			
propylene	0.50	ND	1.0	T,D1			
dichlorodifluoromethane	0.20	0.57	0.40	L,D1			
methyl chloride	0.20	0.70	0.40	L,D1			
isobutane	0.23	1.4	0.46	L,D1			
vinyl chloride	0.17	ND	0.34	D1			
1-butane	0.20	0.15	0.40	J,D1			
1,3-butadiene	0.27	ND	0.54	D1			
n-butane	0.20	1.4	0.40	L,D1			
t-2-butene	0.18	ND	0.36	D1			
bromomethane	0.27	ND	0.54	D1			
c-2-butene	0.27	ND	0.54	D1			
3-methyl-1-butene	0.23	ND	0.46	D1			
isopentane	0.27	0.35	0.54	J,D1			
trichlorofluoromethane	0.29	0.24	0.58	J,D1			
1-pentene	0.27	ND	0.54	D1			
n-pentane	0.27	ND	0.54	D1			
isoprene	0.27	0.35	0.54	J,D1			
t-2-pentene	0.27	ND	0.54	D1			
1,1-dichloroethylene	0.18	ND	0.36	D1			
c-2-pentene	0.25	ND	0.50	D1			
methylene chloride	0.14	ND	0.28	D1			
2-methyl-2-butene	0.23	ND	0.46	D1			
2,2-dimethylbutane	0.21	ND	0.42	D1			
cyclopentene	0.20	ND	0.40	D1			
4-methyl-1-pentene	0.22	ND	0.44	D1			
1,1-dichloroethane	0.19	ND	0.38	D1			
cyclopentane	0.27	ND	0.54	D1			
2,3-dimethylbutane	0.28	ND	0.56	D1			
2-methylpentane	0.27	ND	0.54	D1			
3-methylpentane	0.23	ND	0.46	D1			
2-methyl-1-pentene + 1-hexene	0.20	ND	0.40	D1			
n-hexane	0.20	ND	0.40	D1			
chloroform	0.21	ND	0.42	D1			
t-2-hexene	0.27	ND	0.54	D1			
c-2-hexene	0.27	ND	0.54	D1			
1,2-dichloroethane	0.27	ND	0.54	D1			
methylcyclopentane	0.27	ND	0.54	D1			
2,4-dimethylpentane	0.27	ND	0.54	D1			
1,1,1-trichloroethane	0.26	ND	0.52	D1			
benzene	0.27	0.21	0.54	J,D1			
carbon tetrachloride	0.27	ND	0.54	D1			
cyclohexane	0.24	ND	0.48	D1			
2-methylhexane	0.27	0.03	0.54	J,D1			
2,3-dimethylpentane	0.26	ND	0.52	D1			

Laboratory Analysis Results

ACL Number: 1108018

Analysis Code: AMOR006

Note: Results are reported in units of parts per billion by volume (ppbv)							
Lab ID	1108018-001						
Compound	LOD	Concentration	SDL	Flags**	Concentration	SDL	Flags**
3-methylhexane	0.20	ND	0.40	D1			
1,2-dichloropropane	0.17	ND	0.34	D1			
trichloroethylene	0.29	ND	0.58	D1			
2,2,4-trimethylpentane	0.24	ND	0.48	D1			
2-chloropentane	0.27	ND	0.54	D1			
n-heptane	0.25	ND	0.50	D1			
c-1,3-dichloropropylene	0.20	ND	0.40	D1			
methylcyclohexane	0.26	ND	0.52	D1			
t-1,3-dichloropropylene	0.20	ND	0.40	D1			
1,1,2-trichloroethane	0.21	ND	0.42	D1			
2,3,4-trimethylpentane	0.24	ND	0.48	D1			
toluene	0.27	0.10	0.54	J,D1			
2-methylheptane	0.20	0.02	0.40	J,D1			
3-methylheptane	0.23	ND	0.46	D1			
1,2-dibromoethane	0.20	ND	0.40	D1			
n-octane	0.19	ND	0.38	D1			
tetrachloroethylene	0.24	ND	0.48	D1			
chlorobenzene	0.27	ND	0.54	D1			
ethylbenzene	0.27	0.03	0.54	J,D1			
m & p-xylene	0.27	0.03	0.54	J,D1			
styrene	0.27	ND	0.54	D1			
1,1,2,2-tetrachloroethane	0.20	ND	0.40	D1			
o-xylene	0.27	ND	0.54	D1			
n-nonane	0.22	ND	0.44	D1			
isopropylbenzene	0.24	ND	0.48	D1			
n-propylbenzene	0.27	ND	0.54	D1			
m-ethyltoluene	0.11	ND	0.22	D1			
p-ethyltoluene	0.16	ND	0.32	D1			
1,3,5-trimethylbenzene	0.25	ND	0.50	D1			
o-ethyltoluene	0.13	ND	0.26	D1			
1,2,4-trimethylbenzene	0.27	ND	0.54	D1			
n-decane	0.27	ND	0.54	D1			
1,2,3-trimethylbenzene	0.27	ND	0.54	D1			
m-diethylbenzene	0.27	ND	0.54	D1			
p-diethylbenzene	0.27	ND	0.54	D1			
n-undecane	0.27	ND	0.54	D1			

Laboratory Analysis Results

ACL Number: 1108018

Analysis Code: AMOR006

Note: Results are reported in units of parts per billion by volume (ppbv)

LOD - Limit of Detection.

ND - not detected

NQ - concentration can not be quantified.

SDL - Sample Detection Limit (LOD adjusted for dilutions).

INV - Invalid.

J - Reported concentration is below SDL.

L - Reported concentration is at or above the SDL and is below the lower limit of quantitation.

E - Reported concentration exceeds the upper limit of instrument calibration.

M - Result modified from previous result.

T- Data was not confirmed by a confirmational analysis. Data is tentatively identified.

* SDL is equal to LOD

** Quality control flags explanations are listed on the last page of this report.

TCEQ laboratory customer support may be reached at kbachtel@tceq.state.tx.us

The TCEQ is an equal opportunity/affirmative action employer. The agency does not allow discrimination on the basis of race, color, religion, national origin, sex, disability, age, sexual orientation or veteran status. In compliance with the Americans With Disabilities Act, this document may be requested in alternate formats by contacting the TCEQ at (512) 239-0010, (Fax 512-239-0055), or 1-800-RELAY-TX (TDD), or by writing P.O. Box 13087, Austin, Texas 78711-3087.

Laboratory Analysis Results

ACL Number: 1108018

Analysis Code: AMOR006

Quality Control Notes:

D1-sample concentration was calculated using a dilution factor of 4.02

TCEQ laboratory customer support may be reached at kbachtel@tceq.state.tx.us

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TCEQ
DFW Region

Attachment 2

Exit Interview

Customers: Barnett Gathering LP.
CN603072885

Regulated Entity: Bailey Boswell Compressor Station
RN104797626

Investigation Number: 944873
Investigation Date: August 1, 2011
Investigator: Jessica Mock
Number of Pages: 1



TCEQ EXIT INTERVIEW FORM: Potential Violations and/or Records Request

Regulated Entity/Site Name Barnett Gathering LP /Bailey Boswell Compressor Station		TCEQ Add. ID No. RN No. (optional)		RN104797626	
Investigation Type	FI AIR MON	Contact Made In-House (Y/N)	Y	Scheduled Compliance Investigation	
Regulated Entity Contact	Doug Agee	Telephone No.	817-885-2285	Date Contacted	8/9/2011
		FAX #/Email address	Doug_Agee@xtoenergy.com	FAX/Email date	8/9/2011

NOTICE: The information provided in this form is intended to provide clarity to issues that have arisen during the investigation process between the TCEQ and the regulated entity named above and does not represent final TCEQ findings related to violations. Any potential or alleged violations discovered after the date on this form will be communicated to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in a final investigation report.

Issue No.	Type ¹	Rule Citation (if known)	Description of Issue
1	RR		Please provide an Emissions Compliance Test conducted within the last two years for the Waukesha 7044 ENG-2 as required by 30 §106.512(C)(iii).
2	RR		Are the engines required to have an automatic air-fuel ratio (AFR) controller? If so please provide documentation for each AFR controller, manufacturer's, or supplier's recommended maintenance that has been performed, including replacement of the oxygen sensor as necessary for oxygen sensor-based controllers as required by 30 §106.512(C)(i) for the last year.
3	RR		Please provide documentation on proper operation of the engine by recorded measurements of NOx and carbon monoxide (CO) emissions for each occurrence of engine maintenance which may reasonably be expected to increase emissions as required by 30 §106.512(C)(ii) for the last year.

Note 1: Issue Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Did the investigator advise the regulated entity representative that continued operation is not authorized?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

Document Acknowledgment. Signature on this document establishes only that the regulated entity (RE) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, the document will be sent via FAX or Email to RE; therefore, the RE signature is not required.

Investigator Name (Signed & Printed) <i>J. Mock Jessica Mock</i>	Date	8-9-11
Regulated Entity Representative Name (Signed & Printed)		Date

If you have questions about any information on this form, please contact your local TCEQ Regional Office. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.

EMISSION SOURCES - CERTIFIED EMISSION RATES

Registration Number 77442

This table lists the certified emission rates and all sources of air contaminants on the applicant's property covered by this registration. The emission rates shown are those derived from information submitted as part of the registration for PBR.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
ENGINE 1	1,680-hp Waukesha 7044 GSI	VOC	0.89	3.89
		NO _x	1.85	8.10
		CO	3.70	16.22
		SO ₂	0.008	0.04
		PM ₁₀ /PM _{2.5}	0.25	1.11
		Formaldehyde	0.27	1.17
ENGINE 2	1,680-hp Waukesha 7044 GSI	VOC	0.89	3.89
		NO _x	1.85	8.10
		CO	3.70	16.22
		SO ₂	0.008	0.04
		PM ₁₀ /PM _{2.5}	0.25	1.11
		Formaldehyde	0.27	1.17
ENGINE 3	1,680-hp Waukesha 7044 GSI	VOC	0.89	3.89
		NO _x	1.85	8.10
		CO	3.70	16.22
		SO ₂	0.008	0.04
		PM ₁₀ /PM _{2.5}	0.25	1.11
		Formaldehyde	0.27	1.17
DEHY	Dehydrator Still Column	VOC	0.75	3.27
RBLR	Dehydrator Reboiler (1.5 MMBtu/hr)	VOC	0.008	0.04
		NO _x	0.15	0.66
		CO	0.13	0.55

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EMISSION SOURCES - CERTIFIED EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		SO ₂	<0.01	<0.01
		PM ₁₀ /PM _{2.5}	0.01	0.04
TANKS 1-3	Gunbarrel Tank, Water Tank, Condensate Tank	VOC	0.02	0.08
FUG	Fugitives	VOC	0.37	1.61
TRUCK	Truck Loading	VOC	15.41	0.56

Air Contaminant	Total Emission Rates	
	lbs/hr	tons per year
VOC	19.23	17.23
NO _x	5.70	24.96
CO	11.23	49.21
SO ₂	0.02	0.12
PM ₁₀ /PM _{2.5}	0.76	3.37
Formaldehyde	0.81	3.51

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- HCl - hydrogen chloride
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations. Emission values should be used for federal applicability.

Effective Date: January 26, 2011