

Kathleen Hartnett White, Chairman
R. B. "Ralph" Marquez, Commissioner
Larry R. Soward, Commissioner
Glenn Shankle, Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Date

NAME
COMPANY
ADDRESS
CITY, STATE ZIP

RE: Request for characterization of Volatile Organic Compound (VOC) emissions observed during the Remote Sensing VOC Project.

Dear **MR./MS. CONTACT LAST NAME:**

The Texas Commission on Environmental Quality (TCEQ) and its research partners began a remote sensing VOC project in July 2005. This project is a part of the larger Texas Air Quality Field Study II (TexAQS II) and is the first of many projects to be undertaken as part of TexAQS II. The overall purpose of TexAQS II is to advance the understanding of ozone formation thus leading to improved air quality planning efforts of the state. More information about TexAQS II can be found on the TCEQ's website at:

http://www.tceq.state.tx.us/policy/ta/am/TexAQS_II.html

The primary goal of this remote sensing VOC project is to identify VOC emission sources that have possibly been unreported or under-reported in the TCEQ emissions inventory. This project is using the HAWK special infrared camera to locate VOC emission sources. Once a VOC source has been located, the TCEQ is following up with the owner of the emissions source to characterize the emissions observed. The HAWK camera is capable of imaging plumes from gasoline vapors, ethylene, and many other VOC compounds.

On **[DATE]** VOC plumes were observed emanating from the source(s) on your site as shown in the enclosed photographs. The TCEQ has attempted to identify the source of emissions based on its review of the camera imagery, the geographic coordinates of the source(s) in the images, and emission inventory information the TCEQ has for your site. The agency requests that you assist in properly identifying the source(s) if any have been misidentified. A list of sources of interest are found in the enclosed Table 1.

The agency is also requesting your assistance in characterizing the emissions unit and associated emissions that have been identified. The specific information requested for the sources identified in Table 1 is provided in Table 2. Please submit a written response within 45 days and include the requested data, and any other data you believe will be useful to characterize these emissions to the agency.

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Please address any questions or concerns about this information request to Adam Bullock at (512) 239-5155 or by e-mail at abullock@tceq.state.tx.us, or Russ Nettles at (512) 239-1493, email rnettles@tceq.state.tx.us.

The TCEQ appreciates your cooperation with this project. Your support will materially add to the agency's efforts to improve air quality planning in the state.

Sincerely,

Kevin Cauble
Manager, Industrial Emissions Assessment Section
Air Quality Planning and Implementation Division
Chief Engineer's Office, TCEQ

KC/rn/rs

Enclosures

EXAMPLE

EXAMPLE

Attachment: Table of Emissions Sources for XXXXXXXX (company name)

Table 1. **Emissions Sources**

Source type	FIN	EPN	Source UTM Coordinates (approximate)			Date and time of observation	Attached digital photograph
			Zone	N meters	E meters		
Tank	T1	T1	15	3275000	310000	05/05/05, 12:04 PM	TANK109
Vent			15	3275100	310100	05/06/05, 1:40 PM	VENT203
Vent			15	3274998	309968	05/20/05, 11:23 AM	VENT305
Loading operation	LOADRACK	LOADRACK	15	3275220	309861	05/13/05, 6:05 AM	LOAD002
Tank	TANK501	TANK501	15	3275302	310521	05/14/05, 7:33 PM	TANK501

EXAMPLE

Table 2. **Requested source type information.**

A source type has been identified for each emissions source listed in Table 1 above. For each listed source type in Table 1, provide the requested information about that source.

Source Type	Requested Information
Storage tank	<ul style="list-style-type: none"> ● Facility Identification Number (FIN) if listed in the emissions inventory (EI) database ● Emissions Point Number (EPN) if listed in the EI database ● Tank identification if not listed in the EI database ● Speciation profile of tank contents at time of observation ● Rim vent or other vent data <ul style="list-style-type: none"> ○ Diameter ○ Estimated velocity ● Tank operations at time of observation <ul style="list-style-type: none"> ○ Loading ○ Unloading ○ Mixing ○ Idle (no movement into or out of tank) ○ Landed roof ○ Other ● Concentration of plume in ppm ● Estimate in lb/hour for identified plume
Vent: pressure relief or process vent	<ul style="list-style-type: none"> ● Facility Identification Number (FIN) if listed in the emissions inventory (EI) database ● Emissions Point Number (EPN) if listed in the EI database ● Vent identification if not listed in the EI database ● Speciation profile of vent gas stream at the time of observation ● Vent parameters <ul style="list-style-type: none"> ○ Diameter ○ Estimated velocity ○ Height ○ Temperature ● Pressure of vented system ● Relief valve setting in psi, if applicable ● Description of associated VOC process ● Concentration of plume in ppm ● Estimate in lb/hour of emissions for identified plume

<p>Loading operations</p>	<ul style="list-style-type: none"> ● Facility Identification Number (FIN) if listed in the emissions inventory (EI) database ● Emissions Point Number (EPN) if listed in the EI database ● Loading operation identification if not listed in the EI database ● Speciation profile of loaded VOC at the time of observation. ● Description of loading process ● Loading operation fugitive emission data <ul style="list-style-type: none"> ○ Volume of plume in cubic feet/hour ○ Concentration of VOC in ppm ● Loading operation stack parameters <ul style="list-style-type: none"> ○ Diameter ○ Estimated velocity ○ Height ○ Temperature ● Concentration of plume in ppm ● Estimate in lb/hour of emissions for identified plume
<p>Pipeline operations</p>	<ul style="list-style-type: none"> ● Speciation profile of pipeline contents at the time of observation ● Operating pressure of pipeline ● Concentration of plume in ppm ● Estimate in lb/hour of emissions for identified plume
<p>Other VOC operations</p>	<ul style="list-style-type: none"> ● Speciation profile of VOC at the time of observation ● Operating pressure of operation ● Concentration of plume in ppm ● Estimate in lb/hr of emissions for identified plume