

Do we need a statement of the overall question?

Should the study focus on Fort Worth only?

Do we want to narrow questions to a small number? (e.g. 5)

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- **What pollutants are being emitted from natural gas facilities?**
  - **What are the potential and predominant point sources of onsite emissions?**

Can/will operators share in-house analysis that will support the study?

Should analysis include “inside the gate” examination of pollutants?

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- **Do emissions exceed what is allowed by the State or Federal governments?**
  - **Do pollutants exceed short-term or long-term Effects Screening Levels (ESL’s) or any health based level/limit established by the State of Federal government?**

What is the impact of emissions on citizens?

What are the local “hotspot” versus regional issues?

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- **How effective is “green” completion?**
  - **Are mechanical solutions available to reduce emissions from the equipment?**

What are the risks if a particular piece of equipment leaks?

What levels of oversight/maintenance is needed?

Are existing controls sufficient?

Should the focus be on different phases of gas industry and elements that may influence air quality? (e.g. equipment inventory, operations, weather, etc...)

Is current method of gas production safest?

What are the priority “fixes” in the Barnett Shale?

Should consultant research incidents to assess problems?

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- **Does the quality of the gas (wet/dry) make a difference in the volume of emissions from drill sites? Is it a valid conclusion that the “dry gas” areas have fewer emissions? Is this true for Volatile Organic Compounds such as benzene and Carbon Disulfides?**
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- **Is there a typical distance that allows emissions to dissipate sufficiently to mitigate any health effects?**

What are the impacts if a gas facility is within \_\_\_\_ feet of a sensitive use such as school or residence?

Can we evaluate level of “harm” in terms of setbacks?

Should analysis include “outside the gate” examination of pollutants from gas facilities and their effect?

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- **How do emissions from wells in urban areas compare to and affect overall pollution?**
- **Is there a relationship between the concentration of methane in the ambient air and those of other chemicals?**
- **What is the relationship between ambient benzene concentrations and the potential emissions from natural gas facilities within the City of Fort Worth?**

We need to understand impacts of Oil and Gas facilities on air quality. What about other impacts? Should we be examining relative impacts of oil and gas related to other sources?

Is there existing data to put gas emission impacts in context?

What is the contribution of Oil and Gas emissions in Fort Worth against overall ambient?

Do we want to quantify other emissions close to wells? (e.g. freeways)

Should regional approach consider NO<sub>x</sub> and other issues?

Should we list or include considerations such as well life and current versus future conditions?

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