

# Upper Green River Basin Air Quality Citizens Advisory Task Force

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**“The purpose of the Upper Green River Basin Air Quality Citizens Advisory Task Force is to consider and advise on potential solutions to reduce ozone. It will accomplish this through mutual education; increasing transparency in process; fostering communication among citizens, the WDEQ, other governmental agencies and other stakeholders; and coordinating information between governmental agencies.”**

**“The Task Force is an advisory group convened by WDEQ that reports its recommendations to the WDEQ. Recommendations generated by the Task Force will be considered and may be accepted in whole, in part, or rejected at the discretion of the WDEQ.”**

# DEQ Task Force – 26 Members

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## **Local Gov't (7)**

- Sublette CC - Andy Nelson
- Sweetwater CC - Wally Johnson
- Lincoln CC - Kent Connelly
- Marbleton – Jim Robinson
- Pinedale – Dave Hohl
- Big Piney – Philip Smith
- LaBarge – Larry Stepp

## **Citizens (6)**

- Tom Johnston, MD
- John Anderson
- Hank Williams
- Isabel Rucker
- Carmel Kail
- Elaine Crumpley

## **State & Federal Gov't (5)**

- DEQ Director John Corra
- Governor's Office – Jerimiah Rieman
- DEQ-AQ Division Steve Dietrich
- BLM – Shane DeForest
- USFS – Terry Svalberg

## **Industry (6)**

- ExxonMobil - Tom Monahan
- Williams - Cortnie Morrell
- Ultra – Cally McKee
- QEP – Craig Brown
- Shell – Angela Zivkovich
- Encana – Mike Schaffron

## **Environmental Groups (2)**

- TWS - Stephanie Kessler
- WOC – Bruce Pendery

# Website [http://deq.state.wy.us/aqd/Ozone\\_Taskforce.asp](http://deq.state.wy.us/aqd/Ozone_Taskforce.asp)

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- **Upper Green River Basin Air Quality Citizens Advisory Task Force**
- **UGRB Ozone Taskforce Ground Rules -Coming Soon**
- **[UGRB Ozone Taskforce Participants](#)**
- **[UGRB Task Force Situation Assessment & Process Recommendations](#)**
  
- **February 21, 2012 Meeting Information**
  - [Press Release](#)**
  - [Meeting Summary](#)**
  - [Presentations](#)**
  
- **March 21, 2012 Meeting Information**
- **[Press Release](#)**
- **[Meeting Summary](#)**
- **[Presentations](#)**
  
- **May 9, 2012 Meeting Information**
  - [Press Release](#)**
  - [Agenda](#)**
  - [Meeting Summary](#)**
  - [Presentations](#)**

# Joint Fact Finding Document

(Group's Working Background/Reference doc)

## Key Points – Executive Summary

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### **The Issue – Why We are Here**

- Upper Green River Basin (UGRB) (Sublette and parts of Lincoln and Sweetwater Counties) designated by EPA to be in ozone non-attainment at Marginal level
- Periodic wintertime exceedences 75 ppb standard since 2005

### **Emissions Inventories – Understand the Emission Sources**

- Emission Inventories are detailed estimates developed based on a set of rules that were developed by WDEQ
- Emission inventories are living programs that change as new information become available, thus calculation methodology and underlying baseline may change

# Joint Fact Finding Document

## Key Points – *continued*

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- **UGRB Emissions – Focus on Largest Sources**
- About 6000 producing O&G wells of which about half were permitted prior to 2001 BACT changes
- Eight Major sources (compressors stations)
- 2011 WDEQ Emissions Inventory – about 5,000 tpy NO<sub>x</sub> and 18,000 tpy VOC attributed to Oil and Gas
- Relative to the JPDA and non-JPDA, NO<sub>x</sub> is greater in JPDA while VOC is greater in non-JPDA

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## Key Points – *continued*

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### ■ Modeling – Predicting the Outcomes of Change

- Photochemical Box Modeling work to date has found the UGRB situation to be extremely complicated, with some times and places being NO<sub>x</sub>-limited, other times and/or places VOC-limited.
- Extremely complicated atmospheric chemistry, contribution of climatic inversions and impacts of snow cover in ozone formation will require further understanding
- There is debate whether ozone is VOC limited or NO<sub>x</sub> limited

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## Key Points – *continued*

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- **Health – Human and Environmental Impacts**
  - Health effects of ozone well understood, EPA and others have significant resources for review
  - Screening study suggested health impacts of toxic air contaminants in population centers in UGRB to be significantly lower than risks found in most urban and rural areas.
  - Epidemiology study commissioned and in progress by WDOH looking at correlation between high ozone days and respiratory illness

# Joint Fact Finding Document

## Key Points – *continued*

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- **Monitoring – Confirming Inventories**
- Monitoring Stations placed based on EPA guidance
- Monitoring stations and trajectory models indicate that advection of precursors from sources out of the basin are not contributing to ozone formation.
- Mobile monitoring employed for local study

# Joint Fact Finding Document

## Key Points – *continued*

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- **Future Plans –Accommodate New Sources and Meet Goals**
  - Future approved and proposed development may add up ~7800 wells in next 15 years

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## ■ **Next Steps**