# Trempealeau County Moratorium Committee

# Final Report Presentation

September 10, 2014

## Committee Members

Sally Miller, (Chair), County Board Supervisor John Aasen, (Secretary), County Board Supervisor Dave Larson, County Board Supervisor Tim Zeglin, County Board Supervisor Pam Nelson, (retired nurse), Board of Health Sheryl Rhoda, Public Health Director Cristeen Custer, (Secretary) Citizen Member Elizabeth Feil, J.D., Citizen Member Ellen Ott, APNP, Health Professional Member Dr. Sarah Slaby, DVM, Citizen Member Lois Taylor, RN, Health Professional Member Paul Winey, PA-C, (Vice Chair), Health Professional Member

## Committee Facilitators and Support

Catherine Emmanuelle, UW Extension
Pat Malone, UW Extension
Steve Okonek, UW Extension
Department of Land Management
Real Property Lister
Land Records Department

A special thanks to Carol Bawek, Public Health Department Secretary, for all her organization with agendas, minutes and countless e-mails.

## Introduction

- Definition of Health not just the absence of disease, but balance of physical, mental, emotional, and social well being
- Study Intent identify realized and potential negative health impacts and recommend steps to mitigate their effect
- Citizen's rights vs. Industry rights
  - It should not be the responsibility of the citizens to prove harm, but the responsibility of the industry to prove safety

# Study Process

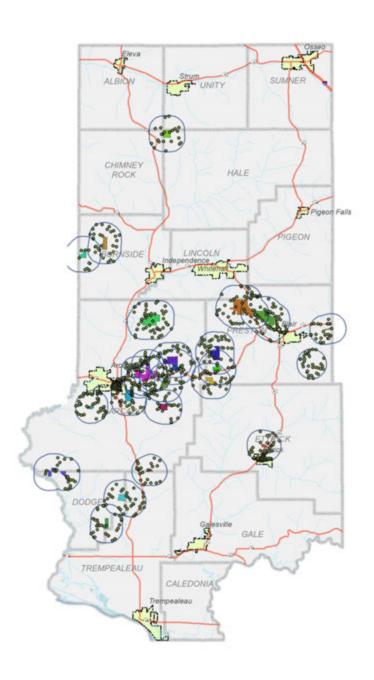
- Use of Health Impact Assessment (HIA) format
- Review of current literature, studies and governmental databanks
- Review of current State and Federal regulations
- Incorporation of focus group and survey findings
- Ongoing studies air sampling/Industry survey

# Report Format

- Overall Executive Summary with general observations and recommendations
- Key Findings and Recommendations for each assigned area
- Individual reports with supporting documentation, recommendations, and appendices

# **Impacts**

- Physical
  - Heart, lung, digestive, reproductive, endocrine, neurologic, immunologic, cancer, and sleep deprivation
- Mental/Emotional
  - Depression, anxiety
- Socio-economic
  - Alienation in families and networks
  - Conflict between governing bodies
  - Uncertainty of taxes and property value
- Environmental
  - Damage to surface/ground water, air, and reclamation problems





# Overarching Recommendations

**Support Community Stability** 

**Improve Pre-mining Evaluation** 

**Require Mining Accountability** 

**Guarantee Natural Resources after Mining Operations Cease** 

## **Economic & Demographic**

Routinely monitor socioeconomic indicators.

- Number and income of county residents working in county-based mines
- County-wide labor trends
- County migration patterns
- Per capita income
- Unemployment rates
- Demands for public health services and their related costs
- Value of owner-occupied housing
- Number and location of new dwellings
- Sales of property in close proximity to mines
- Impact on School aid formula
- Tax revenues (residential & industrial towns & municipalities)

## **Economic & Demographic**

- Enact a long-range strategic planning process to counteract the negative impacts from industrial sand mining.
- Increase the permit application fees on mining permits to cover the added expenses of monitoring and research. (CUP)

#### **Hunting Fishing & Tourism**

- Establish a process to monitor wildlife resources and tourism
- Designate "Scenic Beauty" areas where mining cannot commence
- Guide mining away from highly valued natural spaces in an effort to mitigate potential damage to the stability of the natural environment, including wildlife, land, and people. (CUP)

#### Reclamation

- Research the reclamation process of current mines
- Tighten reclamation plans to reduce open mining acres and reduce the amount of time the acres can be open (CUP)
- Ensure equal and compatible land use pre and postreclamation in mining permits and compatibility with county and town land use plans (CUP)

#### **Annexation**

- Pass a resolution condemning the use of "balloon on a string" annexation
- Encourage cooperative boundary planning
- When cooperation is lacking, townships should consider requesting public interest opinion from WI Dept. of Administration
- Pass a resolution in support of state legislation to prohibit annexation when 50% of area extends further than ¼ mile from existing city limits



#### **Land Use Planning**

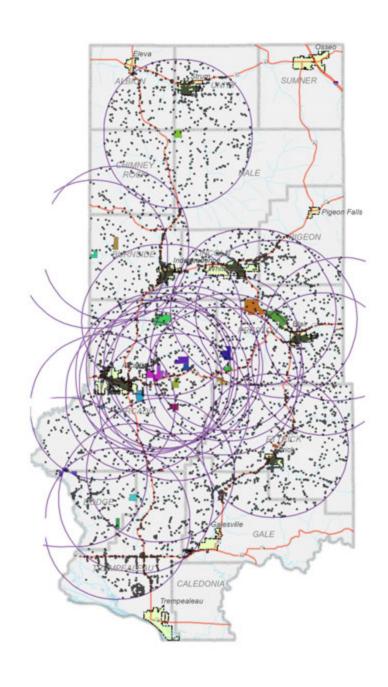
- Update Township land use plans
- Update County comprehensive plan

Limit the number, expansion and locations of mines immediately to allow for time to update land use plans and develop a comprehensive long-range strategic plan

## Improve Pre-mining Evaluation

A comparison of the current land use of proposed mine sites with the potential impacts on the area should be a more defined part of the permit application

Consider cumulative effects of multiple mines within close proximity and the negative impacts





## **Improve Pre-mining Evaluation**

## **Light Pollution**

- Establish lighting ordinance for all sources of nighttime light
- Create lighting zones
- Require pre-construction analysis of existing nighttime conditions (CUP)

#### **Air Quality**

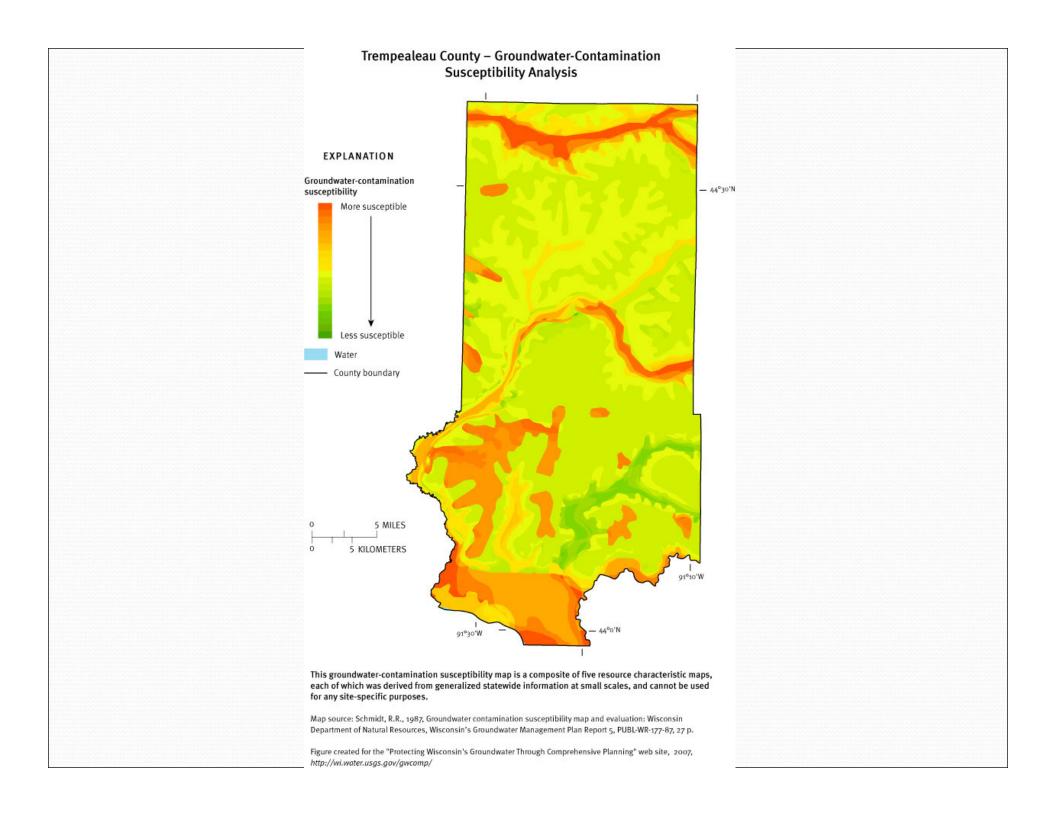
 Report to Board of Heath results of on-going air sampling



## Improve Pre-Mining Evaluation

## **Ground Water Quality**

- Assess groundwater vulnerability for duration of mining
- Identify how all chemicals will be managed and potential ways they could enter county water resources (CUP)
- Identify and test all wells within 1 mile radius



# **Pre- Mining Evaluation**

#### **Surface Water Quality**

- Increase setback from exceptional water resources, trout streams and wetlands
- Enlarge storm water retention ponds (CUP)

#### **Sound Pollution**

 Expand sound studies to include daytime noise

## **Light Pollution**

- New development must comply with lighting requirements
- Monitor existing mines to ensure they are meeting lighting standards

#### **Air Quality**

- Monitor for particulate matter PM 2.5 and PM 10
- Sample every 3 days for three years with reduced frequency when compliance is established
- Mines responsible for reporting non-compliance
- Additional monitoring near vulnerable populations
- Permit holder responsible for collecting and reporting all data
- Annual report to county board and committees by relevant departments



## **Ground Water Quality**

- Permit holder to install monitoring wells
- Permit holder to test monitoring wells quarterly
- Extend well protection for water quality and damage to a radius of one mile
- Permit holder to test drinking water wells annually
- Permit holder responsible for collecting and reporting all data
- Require use of food grade polyacrylamide-based flocculants

## **Surface Water Quality**

- Line all process and settling ponds (CUP)
- Use closed-loop systems to maximize recycling and minimize contamination (CUP)
- Test pond sediments prior to use as reclamation material (CUP)
- Monitor natural waterways within ½ mile of mining sites
- Enclose materials and processes to minimize contact with storm water
- Mines responsible for reporting non-compliance (CUP)



#### **Sound Pollution**

- Reduce nighttime noise to 40db
- Reduce daytime noise to average of 50 db
- Apply limits to all points on neighboring properties

# Guarantee natural resources after mining operations cease

#### **Ground water**

Monitor for at least 5 years following reclamation

#### Reclamation

- Continue the monitoring and maintenance requirements of reclaimed land for at least five years before release of the reclamation bond is made. (CUP)
- Reclamation plan for structures post mining (CUP)

## Conclusion

- Protection of Health is Imperative
- This is not a simple issue, but will have lasting impacts and implications
- Careful decisions need to be made now before irreversible damage is done
- County residents health and rights should not be ignored in light of economic development