11.4 Environmental Health Issues

11.4.1 Garfield County Resident Input on Environmental Health Issues

11.4.1.1 Environmental Health Comments from Garfield County Public Health Staff Outreach CARE Community Presentation Feedback
(3 pages)

11.41.2 Emails to GarCoCARES Email Address

- Garfield County residents' emails to garcocares@gmail.com
(29 pages)

11.4.2 Original Environmental Health Issues List at Start of Delphi Exercise

- 39 Issues derived from input prior to the start of the Delphi Exercise
(3 pages)

11.4.3 Guidelines for Framing Environmental Health Issues Statements

- Working Guidelines for Garfield County Environmental Health (E.H.) Issues
(1 page)

11.4.4 Additional Environmental Health Issues from Delphi Contributions

- Round 1 New E.H. Issues
(1 page)

11.4.5 Final Environmental Health Issues List

- Final list of 44 E.H. Issues (English)
(2 pages)

11.4.6 Spanish Environmental Health Issues List

- Final list of 44 E.H. Issues (Spanish)
(3 pages)

11.4.7 Weighted Prioritized Environmental Health List

- The 44 Environmental Health Issues Identified by Garfield County Residents in prioritized order
(2 pages)

11.4.1 Garfield County Resident Input on Environmental Health Issues

11.4.1.1 Environmental Health Comments from Garfield County Public Health Staff Outreach CARE Community Presentation Feedback (3 pages)

11.41.2 Emails to GarCoCARES Email Address

- Garfield County residents' emails to garcocares@gmail.com (29 pages)

CARE Community Presentation Feedback

	Air Quality	
		Dust
		Oil & Gas Related
		Vehicle Emissions
		Indoor Air
		Idling
		Diesel Trucks
		Fires/Smoke
		Increased Particulate Matter
		Carbon Emissions
		VOC's/Ozone
		Drilling Emissions, Flaring
		Smog/Pollution
		Noxious Odor
		Public Smoking
EH issue?		Hwy 82 Impact
		Additional monitoring
		Total Air Quality
	Water Quality	
		Drinking Water
EH issue?		Sanitation Processing
		Quality in high traffic areas
		Contaminated Runoff
		Oil & Gas/Development Impacts
		Contaminated Groundwater
		Clean Rivers
		Water Management/Quantity
		Surface Water
		Gravel Mining in Colorado River
		Lack of fluoride in drinking water
EH issue?		Floodplain protection
		Total Water Quality
	Other Oil & Gas	
		Exploration Impact
		Health impact of
EH issue?		Mud Everywhere
		Oil & Gas Toxins
		Fracing Chemicals/ health impacts of
		Need more controls on off gasing
EH issue?		monitoring "incidents"
EH issue?		Need more green completions
EH issue?		Need to vent bratenhead gas into pipeline
EH issue?		Permitting
		Noise from facilities and traffic
		Production
		Soil contamination
		Roads
		Mis-information regarding/NIMBY
		Human Services
		Total Other Oil & Gas
	Pests/Comm. Diseases	
EH issue??		Diabetes
EH issue		Prevention
		Radon
		Lead

		Mosquitoes/West Nile Abatement
		E-Coli/Salmonella
		Tick Born Illnesses
		Hanta Virus
EH issue?		Pine Beetle Infestation
		Total Diseases
	Traffic/Transportation	
EH issue?		Abatement
EH issue?		Healthy Alternatives- Public Transit, Cycli
EH issue?		Oil & Gas
EH issue?		Total Traffic
	Children/Social Problems	
EH issue?		Childcare Facility Management
		Transient Workforce Issues
		Transient Campgrounds
EH issue?		STD
EH issue?		Drugs/Drug education in schools
		Total Children/Social Problems
EH issue?	**Green Initiatives**	
EH issue?		Recycling
EH issue?		Eating/growing local food
EH issue?		Alt Energy
EH issue?		Energy efficiency
EH issue?		Waste Management
EH issue?		Sustainability
EH issue?		Conservation/EE eduation to Latinos
		Total Green Initiatives
EH issue?	**Land Use**	
EH issue?		Building Permits
EH issue?		Impacts on roadless areas
EH issue?		Agricultural
EH issue?		Community Planning
EH issue?		Oil & Gas Related
EH issue?		Urban Growth/sprawl
		Total Land Use
	Hazardous Material	
		Total Hazardous Material
	Restaurants/Food Chain	
		Safety/Cleanliness/inspections
		School Nutrition
		Food additives (toxins)
		Foodworker Edu & Training
		Total Restaurants/Food Chain
	Healthcare	
		Children's Immunizations
EH issue?		Access To
EH issue?		Uninsured Population
EH issue?		Mercury Preservatives in vaccines
EH issue?		Poverty
		Total Healthcare
	Rulison	
		Total Rulison
	Emergency Preparedness	

		Total Emergency Preparedness
	Waste Management	
		Disposal at temporary sites
		Garbage /Litter
		Waste Water Systems
		Unregulated debris storage on private prop
		Paint/Light Bulbs Household Haz
EH issue		Waste Diversion- Reuse
		Sewage Disposal/ISDS
		Storm Water Mitigation
		Town Clean up
		Total Waste Management
	Increased Public Health Effort	
		EHEducation for Spanish speaking commu
		Edu. Concerning a preventive lifestyle
		Total Increased PH Effort
	UV Exposure	
		Total UV Exposure
	Noise Pollution	
		Total Noise Pollution
	Meth Labs	
		Total Meth Labs
	Mag Chloride	
		Total Mag Chloride
EH issue?	**Noxious Weeds**	
		Total Noxious Weeds
	Radiation/Electromagnetic Frequencies	
		Radiation/Electromagnetic Frequencies
	Cleaning Supplies-Education about toxins	
		Total Cleaning Supplies
EH issue?	**Over consumerism**	
		Total Over consumerism
	Light Pollution	
		Total Light Pollution
EH issue?	**Enviro hazards to wildlife**	
		Total Enviro hazards to wildlife
EH issue?	**Excessive use of Nat. Resources**	
		Total Excessive use of Nat. Resources
	Cell Phone Safety	
		Total Cell Phone Safety
	Bathrooms (lack of) of Rio Grand Trail	
		Bathrooms for Rio Grand Trail

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drilling in Battlement Mesa

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Garry and Bettie Evenson

122 Mineral Springs Circle

Parachute CO 81635

970-285-0257

gwevens@hotmail.com

November 19, 2009

Dear Sirs;

We own and live in a dwelling in the Battlement Mesa PUD and think it is outrageous that gas drilling would be allowed in a residential area or its watersheds for the following reasons:

1. Gas drilling involves hazardous wastes, noise, dust, pollution from heavy traffic, toxic fumes fire and explosion hazards and injection of deadly chemicals in the ground which adversely affects everyone's health who is exposed to the polluted water and air. as well as decimating the property values of the residents who have invested their life savings in their property.

2. Government officials are violating the public trust when they place the profits of a relatively few mineral owners over the health and safety of over 5000 residents of the PUD.

3. The gas derived from the approximately 3200 acres contained in the PUD is a very insignificant amount when compared to the amount that is available in the millions of acres that are located outside of residential areas .

4. Contrary to popular belief there is no "right" to minerals or profits in the Constitution. The owners of minerals are no different than any other speculator seeking to make profits on land or minerals that they hope to exploit and they certainly should not take precedence over the needs of the owners of the surface of the ground.

For these reasons we urge that no permits for gas or oil drilling be approved in any of the Battlement Mesa residential area or PUD area.

Thank You

Garry and Bettie Evenson

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well drilling health and pollution problems

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Garry AND bETTIE Evenson

122 Mineral Springs Circle

Parachute CO 81635

970-285-0257

gwevens@hotmail.com

November 17, 2009

We live near Stone quarry road in Battlement Mesa. Recently a well was drilled approximately 1000 yards on the hill above our home.

During the process of drilling there was constantly clouds of dust and exhaust fumes from the truck traffic connected with the drilling which the prevailing winds carried to our house resulting in dust and dirt covering both the outside and inside of the house.

When the fracing began Garry who has heart problems would get very dizzy whenever out in the yard or driving up Stone Quarry Road. He went to the VA hospital for tests but the doctor said nothing was found but did say the well operations could have been responsible but that either whatever caused the problem had dissipated or there were chemicals that they did not know what to test for. As soon as the fracing was finished the dizziness disappeared.

Garry and Bettie Evenson

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Paul Schultz to me show details Nov 17 (7 days ago) Reply

My biggest concern about drilling in the Battlement Mesa PUD is the very real and documented danger to the water supply. No thinking person can believe that fracturing the bedrock through which the water table percolates will not affect the water. The gas and oil companies are being disingenuous when they say that there has never been any evidence to suggest that frac'ing pollutes the water tables. There is ample evidence of widespread pollution of water sources, and the subsequent health complications to those exposed to the water. They are also hiding behind immorally lax regulation of the process and components involved in frac'ing. Although the laws are on their side, we are being denied our basic rights to a safe water supply.
Paul Schultz

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Environmental Health Issues

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Dave Devanney to me show details Nov 17 (7 days ago) Reply

I am concerned about the potential VOC's from the Williams drilling rig that is next to the Battlement Mesa Golf Course, as I understand there are no emission controls at that site.

Dave Devanney

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RICHARD SCHWABE to me show details Nov 17 (7 days ago) Reply

Hello,

I live south of Silt. Antero has a well 1/4 mile south of me. It is a disposal well. Every time they dump a load in the well, the smell drifts down to my property. It is a thick smell of bad diesel and chemical mix. It is so strong I have to go indoors. It last about 30 minutes, then I can go back outside. All summer long I had to have the windows closed on account of the smell. It would wake you up at night.

How toxic is this air?

What is it doing to my water well?

Can they put some kind of tent over the well and filter the air?

How come their is move concern for the Caribou in Alaska living with oil and gas wells, then the thousand of HUMANS living on top of the wells in Garfield County?

Were is the justice?

Thank You,

Richard Schwabe

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Jim Rada to RICHARD show details Nov 19 (5 days ago) Reply

Thank you for your input, your email was received. We appreciate your time if I was able to talk to you and the time that you took to send your opinion.
Danielle, on behalf of the GarfieldCountyCARES project

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Environmental Concerns

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Mac Hampson to me show details Nov 16 (8 days ago) Reply

Jim,

Thank you for soliciting our opinion on the topic of overlooked Environmental issues in Garfield County. Due to the large "Green" population and the high concentration of wealth in Gar Co you would think that we are a very "green" area. Unfortunately the opposite is the truth. Garfield county is one of the worst places in Colorado for viewing openly blatant violations of state and federal environmental codes.

This is predominantly due to the lack of enforcement and the subsequent ignorance of the law that follows. Construction projects in and out of the gas industry are routinely ignored as they openly pollute our air and water at will. The most Blatant example of this in recent history is the bike path project happening in front of the RFTA station next to the Target Mall in west Glenwood. There were times when effluent from the construction site were running directly into the Colorado river! This violates state and federal EPA and water quality codes on at least 50 if not a 100 different levels, I can't accurately count how many laws it was breaking. This kind of behavior is rampant in the valley. Another example is the spreading and commercial use of fertilizers and commercial pesticides. Recently we have run into problems with unlicensed contractors Giving advice on and using pesticides and fertilizers on residential and commercial properties in Garfield County. This also violates several state and federal laws some carrying Felony charges for reckless endangerment. Both of these examples represent a complete lack of respect for and ignorance of the law and an obvious open knowledge that there is no-one to enforce it as well. With no penalty or enforcement you can make up laws all day but until you actually enforce them and give them teeth it's just a piece of paper that very few even know exist and even fewer care.

Until an effective, organized way is found to enforce the law no amount of laws or education will do a thing. The bottom line is money. People will start educating themselves once it costs money to be uneducated. Ask anyone what the speed limit is, they'll know, my non-English speaking employees know, because not knowing costs money. Same with environmental laws. If we just enforced the ones we have there would be a radical improvement in the overall environmental health of Garfield County. Then we can figure out how to make it better but until there is fair, consistent enforcement of the law the rest is a waste of time and Money.

Thank You

Mac Hampson

Rocky Mountain Environmental Concerns

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Environmental Health Issues

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Elaine Hanak-Hall to me show details 7:51 PM (14 hours ago) Reply

Garfield County:
I am very concerned about environmental health issues, especially those caused by the oil and gas industry.
We moved here to Garfield County 4 years ago as our retirement home, and in the interim, along the highway and up in the hills, numerous drilling rigs, storage facilities, man camps, and industrial sites have popped up. I am especially concerned because the oil and gas industry is not obliged to comply with the Clean Air and Water Acts. Why not? Is it OK for them to pollute our air and water in order to get gas? Open containment tanks also pollute the soil. There are noxious emissions from gas drilling rigs, in particular during fraccing. In addition, having a rig in our backyard here in Battlement Mesa is not conducive to a happy retirement. It is ugly and dangerous. Fires are common. Fumes from deadly chemicals like benzene are possible. Up until now, we have seen the rigs at a distance. They are coming too close. What can we do to stop this in a residential area? It ruins not only our health and welfare (trucks, noise, dirt) but our visual appreciation of Battlement Mesa. Surely this counts as well. This was why we moved here, and now we cannot move out since homes won't sell.

Can you do anything to help us?

Elaine Hanak-Hall
256 Battlement Creek Trail
Battlement Mesa, CO 81635

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CARES Project- Environmental Health Issues

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R J BUCHAN to me — show details 8:36 PM (15 hours ago) — Reply

We have a number of environmental health concerns:

- During a recent visit to the east end of the back nine of our Battlement Mesa golf course I observed Williams Co drilling on well pad GV 82-5 within the BM PUD. Drilling is and has been occurring on this pad for several years without the required special use permit issued by the county. The fact that they can drill, fracc and go into production in violation of county regulations unnoticed an uninspected is very disturbing. Why did the county allow this. Why were they not stopped and severely penalized. This has likewise occurred on another pad, PA 41-9, in the PUD.
- I observed very sloppy mud and cuttings handling at GV 82-5. Much wet mud and puddled fluids were outside the lined pit. This endangers our ground water and the Colorado River which is only one or two hundred feet away. Vapor was rising from one shack. The noise level was disturbingly loud even thou I was four or five hundred feet away. I very foul odor was likewise rising from the site. I do not understand how the county can allow this.
- Extremely serious envimmental health issue are on the horizon with Antero Co.'s proposed drilling of 200 gas wells in the BM PUD. Many of these wells will be close to the Colorado River and on the slope or at the toe of the steep slope between the river and residential dwellings along the rim. Others will on the plateau with the dwelling.
- Fire and explosion dangers are obvious especially for home near the rim of the mesa over the Colorado River.
- Foul odors as well as toxic and noxious fumes are also obvious dangers.
- Drilling and other operation 24/7 will be very disruptive to our living and for some will be a severe health problem.
- Dust will also be a problem as has been evident from the dust clouds we have seen over Parachute and E Parachute Creek over the past several years.
- In general our air and water quality will be in jeopardy. This may not be fully evident initially but in time (unforetunately when it is too late for some victims) the degradation will be evident.

Garfield County needs to do something to prevent this from happening. Energy and the economy are important, but they do not outweigh the need to protect the community's health and our unique western Colorado environment.

Sincerely,
Richard and Jean Buchan
19 Willow Creek Court
Battlement Mesa, 81636

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Jim Rada to **cstout01** — show details 12:08 PM (0 minutes ago) — Reply

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Garfield County wants your opinion regarding Environmental Health Issues Inbox X

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Tom Hall to me, jrada show details 9:01 PM (15 hours ago) Reply

Gentlemen: My opinion on environmental health issues is:

1. Battlement Mesa has significant problems with PM_{10}. Parachute/Battlement Mesa exceeded the ambient air quality standard in 2008: 210 PM_{10} vs. the 150 PM_{10} standard. To reduce the PM_{10}, we need to reduce fracking and truck traffic in the area. Antero's drilling will push PM_{10} further over the limit.

This is a death sentence for Battlement Mesa seniors with heart and lung disease. The EPA determined that PM_{10} exceeding the limit is linked to serious health problems. These problems range from increased symptoms, hospital admissions and emergency room visits for people with heart and lung disease, to premature death in people with heart or lung disease. We don't even have a hospital in our community! Not to mention a funeral home! Does Garfield County really care?

The source for the above information is the Colorado 2008 Air Quality Data Report (issued October 2009), prepared by the Colorado Department of Public Health and Environment, pages 6,7,15,21,71. You can find it on their website http://www.colorado.gov/airquality/tech.aspx

2. Antero's 500 foot well spacing policy will kill other Battlement Mesa residents. Garfield County's own study stated that a minimum of 990 feet (330 yards) spacing was required to avoid benzene's non-cancer effects. The non-cancer effects of benzene include neurotoxicity and depression of bone marrow function, resulting in blood disorders and impairment of the immune system. This finding was based upon an assumption of 20 micrograms per cubic meter for flow back with no gas recovery.

The source for the above is the "Community Health Risk Assessment of Oil and Gas Impacts in Garfield County", executive summary, page xvi. The study was done by Jim Rada, Garfield County Environmental Health Manager, Dr. Russell Walker, Mesa State College, and Dr. Teresa Coons, St Mary's Saccomanno Research Institute. This study may be found through the Garfield County website - www.garfield-county.com

If Garfield County really cares, you will not allow drilling within our community.

Tom Hall

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Allen, Barby to me

show details 10:36 AM (1 hour ago) Reply

Hi,

I work for Williams Production in Parachute. I was here in the 80's with the Oil shale boom and bust with Unocal Corporation. My biggest concern is the false information and the scare tactics that are being portrayed to the public about Nat Gas drilling and production. In particular "Split Estate". I watched this documentary in Battlement Mesa with a lot of my elderly friends, and they were horrified to the point of moving far away.

This is ridiculous and needs to be addressed. Do we want people abandoning their homes, fearing for their lives because of biased, false or inaccurate information?

Thank you!
Barby Allen

Williams Production RMT
Highlands Asset Team
Field Office Administrator
970-623-8935
Fax 970-263-5313
Barby.Allen@Williams.com

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Jim Rada to Barby

show details 12:24 PM (0 minutes ago) Reply

Thank you for your input, your email was received. We appreciate your time (if I was able to talk to you over the phone) and the time that you took to send your opinion.

Danielle
On behalf of the GarfieldCountyCARES project

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Jim Rada

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Environmental Health Issues

Inbox X

McDermott, Kevin to me show details Dec 17 (3 days ago) Reply

To whom it may concern,

I would like to state that I do not see any environmental health issues worth being concerned about in Garfield County.

K McDermott

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Germano, Dustin to me — show details Dec 18 (2 days ago) — Reply

Air quality. Especially for those who live in the country. More tank farms are being implemented. There is a constant smell of condensate and other pollutants day and night. I almost forgot what the air used to smell like. In the summer you could smell the lush trees, sweet grass, and irrigation water, not anymore. In the winter, a fresh, crisp, invigorating smell, not anymore. The smell from these tank farms runs year round. It's kind of sad. These "farms" should be placed closer to the businesses that produced the condensate and other pollutants. Not near peoples lands, homes, and growing young families. The people that allow these farms do not live anywhere remotely close. It's kind of sad. Please help.

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Environmental Health Concern

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Fullmer, Rick to me — show details Dec 19 (2 days ago) Reply

My biggest concern is the lack of bike/walking paths throughout the region and the general poor condition of parks and public gathering places for recreation. Additional facilities (exercise, play grounds, etc.) would encourage increase participate of the general public and decrease personal health risk from lack of exercise, which is the leading cause of personal ailment.

Rick Fullmer
Battlement Mesa

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Barbara Orcutt to me show details Jan 1 (3 days ago) Reply

The issue by far is the negative impact of the oil and gas drilling on the water and air quality in Garfield county.

Suburban sprawl is also a concern. I would like to see development contained.

Thanks,
Barbara Orcutt

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Jim Rada to **cstout01** show details 12:31 PM (0 minutes ago) Reply

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Protect Thompson Creek

Inbox X

Gerry VanderBeek to me, Thompson show details 8:13 PM (15 hours ago) Reply

Just did a fabulous ski traverse down Thompson creek from above Spring Gulch to the Sewell Ranch. YES this area has outstanding natural beauty and must be protected ! I fully support TDC' s vision and efforts to preserve this area in all it's natural grandure.

Gerry VanderBeek
Glenwood Springs

amorfati

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Sandra Smyser to me show details Mar 5 (3 days ago) Reply

Hello Jim,
Thank you for inviting me, but I am sorry I won't be able to participate. I represent such a little portion of the county, it's probably better that others participate instead. Please let me know if you disagree.
Good luck - this looks like an important project.
Sandra

****
Sandra B. Smyser, Ph.D.
Superintendent
Eagle County Schools
Office: 970-328-1924
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RE: Urgent: Garfield County Environmental Health Issues

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Frank Smith to me, jrada show details Mar 12 (2 days ago) Reply

Hi Jim,

Yes, I'd welcome the opportunity to discuss issues associated with natural gas development in Garfield County. We strongly believe in responsible development and fostering communication between disparate groups.

On another note: over the past few months I have taken a marked step back from the ongoing health impact assessment and EHAMS discussions with GarCo, CDPHE, and the other participants. However, if there was a way to once again increase my participation in the group, I would welcome the opportunity to contribute positively to the process.

Thanks and best wishes,
Frank

Frank R. Smith
Energy Organizer
Western Colorado Congress
frank@wccongress.org
(970) 256-7650 office
(970) 812-7773 cell

** Western Colorado Congress is an alliance for community action, dedicated to empowering people to protect and enhance their quality of life in western Colorado **

From: Jim Rada [mailto:garcocares@gmail.com]
Sent: Wednesday, March 10, 2010 11:52 AM
To: frank@wccongress.org
Subject: Urgent: Garfield County Environmental Health Issues

This is a personal invitation to you to participate on a panel of about 150 people representing Garfield County residents.

To participate on the panel, you must respond to this email.

Please hit <reply> and say, Yes! I will help and participate on the panel this month.

This is urgent. Please respond with either yes, you can help or no, you cannot by Friday, March 12th.

The purpose is to help Garfield County citizens to come to consensus on Environmental Health issues.

You will receive emails asking you personally to register your thinking online three (3) different times in March 2010. Each time you participate, it will take you 10-12 minutes. It is completely anonymous, and easy directions will guide you.

The approach is designed to help reach consensus on Environmental Health issues. As a panel member, you will see consensus grow, plus receive a complete report on the results.

Please hit <reply> and say, Yes! I will help and participate on the panel this month.

Or, hit <reply> and say, **Sorry, can't.**

The Garfield County Board of Health - the same people as the Board of Garfield County Commissioners - are asking for your help with this unique project. This project is known as Garfield County C.A.R.E.S. The letters stand for **C**ommunity **A**ction for **R**esponsible **E**nvironmental **S**olutions.

A letter to you from the Commissioners is attached. There have been some changes in the Garfield County C.A.R.E.S. project since the letter was written:

- The panel has doubled in size to 150 participants, to insure many perspectives are well represented.
- Many individual contacts have been made, also to insure many perspectives are well represented.

- A website - www.GarfieldCountyCARES.com - was created to explain the project. Visit it for more information.
- A special email address - GarCoCARES@Gmail.com - was created for Jim Rada, GCPH Environmental Health Manager.
- People with many perspectives offered their input on Environmental Health
- 39 Environmental Health issues have been framed from the input of County residents. The list is on the website.

- As a panel member, you can add to the Environmental Health issues list if any seem to be missing.

In April and May, several public meetings in the County will present the draft consensus you help reach. You will receive a personal invitation to attend. Everyone in the County will be welcome to attend and comment.

With a consensus on the order of importance of these Environmental Health issues, GCPH will look for the best approaches and funding to address the issues.

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environmental issues in Garfield County

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Caroline Metzler to me show details Mar 16 (2 days ago) Reply

Hello,

Thank you for eliciting feedback from county residents.

I believe that issues related to gas drilling are the most threatening to the county at this time. This because the oil & gas industry is large and powerful, with technology that can harm us profoundly over the long term. Also, much of what they are doing is underground and will only be discernible after the damage is done. I am most worried about the effect of "fracking" chemicals on our air and water quality.

Other concerns I have are the air pollutants emitted by cars along the Hwy. 82 corridor. I would like to see a public transportation option that significantly lowers the use of cars; alternatively, the limit of carbon and other toxic emissions on the cars that do travel the corridor.

Support of locally grown organic foods and biofuels would be a boon to our area.

Thank you,
Caroline Metzler
Coyote Creative Graphic Design
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concerns

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Brenda Espino to me show details May 21 (2 days ago) Reply

Issues 1,3,4,6,12,20,24,26,30,36,38,42 are all a concern with me. I appreciate you folks taking a concerned interest. Thank you.
Fred Wiederhold

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Fw: Health letter

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Patricia Savoy to me show details May 19 (4 days ago) Reply

Subject: Fw: Health letter

To Whom it may concern, 05-19-2010

My health issue for Garfield County is the air we breath. I am a long standing resident of Garfield County. I own my own upholstery business in ET Plaza Carbondale. I am one of many businesses in this complex, one of which, is Innovative Painting Systems or IPS. IPS has a paint booth inside his shop which sucks varnish, paint, lacquer and other fumes from the paint booth and pours it into the air unfiltered for all of us around him to breath in. They also use a very large fan to blow a white fog of fumes into the parking lot directed straight at my side of the building.

Eric, who owns IPS, has had many warnings from Kevin Roberts in Code enforcement of Carbondale. Mr. Roberts has on numerous occasions red tagged his business and shut him down to no avail. Mr. Roberts unfortunately no longer is employed by the city of Carbondale.

I have contacted John who has taken Mr. Roberts place at the city code enforcement but have yet to hear back from him regarding this issue. Marley Bain from the Colorado Department of Health in Denver has also spoken to Eric about the fumes he is pouring into the air and asked him to rectify the problem but to no avail.

I have contacted OSHA concerning this issue but they only deal with employee/work related issues. The Carbondale police dept. has also spoken with Eric and threatened him with a ticket and still to no avail.

I have on numerous occasions have gotten so sick from the fumes that at times I had to close my place of business and leave for the day. Two employees that work in the complex next to my business are getting migraines and also feel sick and complain about the awful chemical smell poured in the air. I have had customers actually leave early from appointments with me because they got sick from the smell of the chemicals in my shop and outside. There are others who will testify to this horrible condition.

This past winter this wasn't so bad because IPS was not real busy and not spraying. But now things are picking up and the paint booth is up and running almost every day and we can't stand it anymore. With summer coming we all open our doors for fresh air which is impossible due to the chemical odor which still leaks into our shops and gets trapped there and makes us so sick.

I beg you "Garfield County Cares" to help us with this most horrible situation so we can all breath healthy air and not get sick from it.

Thank you,

Trish Savoy
0898 Hwy 133 ste. 304
Carbondale, Co. 81623
970-963-4869 or 618-1311

trishsavoy@yahoo.com

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Re: Environmental Information

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precast7@aol.com to me show details May 20 (3 days ago) Reply

Jim,
I wanted to send you some information on some of our efforts in the "Keep it Green" initiative. My office manager, Aundrea Owens, recently attended the Garfield County C.A R.E S meeting at the Battlement Mesa Activity Center on May 18. There were a few issues there that we are currently addressing and wanted to let you know about this.
Currently we are remanufacturing glass and using it in concrete as aggregate. Not only is this a great way to re-use glass but it also makes son asthetically pleasing precast pieces.
We are also taking pond and pit liners from the oil and gas industry and shredding them so they can be used as fiber in concrete block, jersey barriers, retaining wall block and various other precast concrete products.
Along with the remanufactured glass and the shredded pond and pit liners, we have invented a new product called Magnum Pavers. These pavers are very cost effective and easy to use. With a Magnum Paver, installation, maintenance and replacement are very easy. It does not take heavy equipment to install or replave a Magnum Paver.
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Please visit our website for more information on all of our products at www.starprecastconcrete.com.
If there is any other information I can provide for you please don't hesitate to contact me.

Thank You,

Terry Kirk
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Health risks in Garfield County

Inbox X

Rebecca Young to me show details May 20 (4 days ago) Reply

My own take on the most significant health risk in Garfield County is gas and oil development. The exposure of citizens to toxic and cancer-causing substances in the air and water should be of extrme concern to public health officials. The cancer rate in oil and gas areas is much higher than in other locations.

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environmental issues

Inbox X

SIRI OLSEN to me show details May 20 (4 days ago) Reply

Hi--I cannot attend the open houses, but have reviewed your list of identified issues. Under the "emissions" category, I feel one of the biggest threats to health around here is the high level of traffic and road congestion due to inadequate road infrastructure. This adds to our daily stress level (especially if you have to go to downtown Glenwood anywhere near 5:00 in the afternoon), air pollution and noise pollution. We HAVE to make a decision about adding road infrastructure to better move traffic through (or better yet, around) Glenwood.

The second item I think adds horribly to noise and air pollution is the airport in Glenwood. I would love to see the County shut this down!

Siri Olsen
0475 Coryell Road, Glenwood

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Concerns

Inbox X

Joan Troth to me show details May 19 (4 days ago) Reply

Responding to your request for feedback, my main concern is the toxic effects of the fluoridation of Glenwood's water.
Another item of concern is air pollution from the gas industry and its devastating effects on landowners near drilling.

Joan Troth, GWS

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Environmental Health Issues

Inbox X

Jill Pazen to me show details May 19 (4 days ago) Reply

The is regards to the business of Innovative Painting Systems at 0898 Hwy 133 Ste. 403, Carbondale, CO 81623.

I have been at a place of business located in the same Plaza as this one, and I have had concerns that the smells / odors coming from their place of business to be very offensive, even toxic. At times I have had headaches from the odor that comes from the above business when they are spraying laquor and varnish. I know that this issue has been brought up to the city several times and they were informed that they need to install an air ventalating system and that the business responded stating that it was too costly and could not finish what they have tried to install.

I wanted to bring up my concerns as a citizen, and for health reasons as well. I have tried to contact OSA in regards to this along with another business owner, but they never returned my call. I fell that this business has every reason to be in operation as long as they follow the legal requirements, and meet the requirements / courtessey of the business around them. The business that surround Innovative Painting Systems have multiple customers and they have also streesed the awful fumes coming from that place of business.

Please use this letter as another concerned person in regards to Environmental Health Issues, as I feel it is one.

Thank you and please contact me with any questions.

Jill Pazen
970-618-2707
jillpazen@yahoo.com

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Jim Rada to Jill show details May 19 (4 days ago) Reply

Thank you for getting in touch. We really appreciate hearing from you. We are conducting open house meetings this week and it may be a few days before we are able to personally contact you.

Jim Rada
Garfield County Public Health

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Health concerns facing the county

Inbox X

Robert Warehime to me show details May 18 (5 days ago) Reply

How can there be any question that the most important health issue facing Garfield County now and in the near future is the construction of all these natural gas wells. Some of these wells are to be built near to homes especially in Battlement Mesa. The fracking chemicals used in these wells are dangerous to health. Some of these chemicals are carcenogenic. Other of these chemicals have been shown to be related to other health issues.

None of these dangerous to health natural gas wells should be constructed nearer than 1000 feet from any dwelling inhabited by human beings. Actually, the gas industry should not be drilling at all in the Battlement Mesa community where there are many retirees, most of whom are probably more susceptible to environmental toxins than younger people.

Robert & Elaine Warehime
50 Willow View Way
Battlement Mesa, Colorado

970 285-7197
robware@comcast.net

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Jim Rada to Robert show details May 19 (4 days ago) Reply

Thank you for getting in touch. We really appreciate hearing from you. We are conducting open house meetings this week and it may be a few days before we are able to personally contact you.

Jim Rada
Garfield County Public Health

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Fw: OPEN HOUSE May 17-20, 2010 - comment on environmental issues that may affect Garfield County's health

Inbox X

Thomas Thompson to me show details May 11 (12 days ago) Reply

Jim

Just to demonstrate my total disregard for the environment I printed this message and have pinned it on my wall.

This is well beyond what I can tolerate considering that the issues to be discussed at these meetings involve how Garfield County(CARES) has found it acceptable for the gas industry to dump thousands of gallons of waste drilling fluids on the ground every day for the past 7 years.

These gas industries are making many millions of dollars each and every day and could easily afford to be much more environmentally friendly and much better neighbors but they aren't because they don't have to be.

I consider the message and am especially offended by the little green note at the bottom of the page reminding me to consider the environment before printing this message.

Ludicrous!

DT Thompson

From: Diana Royce Smith
Sent: Tuesday, May 11, 2010 3:19 PM
To: Garfield County CARES
Subject: OPEN HOUSE May 17-20, 2010 - comment on environmental issues that may affect Garfield County's health

Please forward this message to friends, neighbors, service organizations, businesses, etc. in Garfield County-

OPEN HOUSE: comment on environmental issues that may affect our health

Hosted by Garfield County Public Health

- **Stop by one of the 7 different open houses (one in each town listed below).**
- **There you will see 44 posters with environmental health issues on them. These are environmental issues that may affect our health here in Garfield County.**
- **Place a marker on the 5 issues you think are most important.**
- **Grab some refreshments and go.**
- **Or email your thoughts directly at www.GarfieldCountyCARES.com**

OPEN HOUSE times, dates, locations:
Mon., May 17, 4:30-6:30 p.m., **Glenwood Springs** City Council Room, 101 West 8th Street.
Tues., May 18, 2-3:30 p.m., **Battlement Mesa** Activity Center, 0398 Arroyo Drive.
Tues., May 18, 4:30-6:30 p.m., **Parachute** Town Hall, 222 Grand Valley Way.
Wed., May 19, 4:30-6:30 p.m., **Carbondale** City Hall, 511 Colorado Avenue.
Wed., May 19, 4:30 – 6:30 p.m., **New Castle** Recreation Center, 450 West Main Street.

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Feedback from Garfield County Environmental Health

Inbox X

Jim Rada Hello to our valued Respondents - A good number of people have already May 3

Jim Rada Dear Thomas Thompson, Diana Smith here, responding on J May 10 (13 days ago)

Jim Rada to Thomas, me, Lisa.Oreilly, c show details May 11 (13 days ago) Reply

Mr. Thompson,

None of the issues included in the survey are meant to imply anything. The purpose of the survey is to gain an understanding of how people view a wide variety of environmental health issues raised by the citizens of Garfield County in terms of their significance or importance. Should others feel the same as you on these issues, the data will indicate that this is a priority environmental health concern for the County and help guide our program into the future.

I welcome your comments and look forward to working with you in the future.

Thank you,

Jim Rada, REHS
Environmental Health Manager
Garfield County Public Health
195 W 14th Street
Rifle, CO 81650
Phone 970-625-5200 x8113
Cell 970-319-1579
Fax 970-625-8304
Email jrada@garfield-county.com
Web www.garfield-county.com

From: Thomas Thompson [mailto:wdixon@rof.net]
Sent: Monday, May 10, 2010 2:16 PM
To: Jim Rada; Jim Rada; Lisa.Oreilly@ucdenver.edu; cstout01@comcast.net; John Martin; Tresi Houpt; Susan.Alvillar@Williams.com
Subject: Re: Feedback from Garfield County Environmental Health
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Jim Rada (jrada@garfield-county.com).vcf
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Results

Inbox X

Thomas Thompson to me show details Jun 13 (9 days ago) Reply

Hi Jim

Once again I am probably expecting too much but the Garfield County Cares project seems to have ground to a halt. The initial grant provided a way for the bureaucracy to officially identify the public health concerns which should have been clear considering that they have remained the same for 7 years now.

As I discussed with Diana Royce Smith at the meeting on May 20, 2010, I have spoken with Governor Ritter, attended years of EAB meetings, COGCC meetings, fireside chats by Encana and Williams and any other gatherings I thought pertinent but have yet to see any real results in solving the persistent issues affecting the public health.

A new series of gas wells across the hill from my home has again raised the dust and fume levels to an intolerable level. I can't remember the last time I did not wake up in the morning without a sinus headache and/or a bloody nose from the constant irritation from the abrasive volcanic dust from the wells sites and access roads.

The issues remain the same. The gas companies could be doing their jobs AND being good neighbors but are not. They are making hundreds of millions of dollars every day but refuse to spend a little of their profits to prevent and eliminate issues that will pollute and poison western Garfield County for generations.

I read in one of your statements that you have applied for another grant to initiate phase II of the Garfield County Cares project. I trust that will provide employment opportunities for several bureaucrats but have no faith that it will resolve any of the issues at hand. In many respects it's already too late as we already have hundreds of well pads leaching poisonous drilling fluids into the ground and hundreds of wells leaking benzene and other carcinogens into the ground water. You can't stop that. That will affect our environment for hundreds of years.

Diana Smith mentioned that there is technology available to recycle gas well pit liners and that she would ask Encana and Williams if they are using that technology as opposed to burying the liners. I would be astounded to know any of the gas companies are taking advantage of that technology. It's easier and cheaper to continue burying hundreds of thousands of gallons of drilling fluids with the pit liners.

I noticed that the GARCO Cares meeting were not well attended and trust you will not take that as a lack of interest on the part of our local citizens. Most are disgusted at the lack of responsibility by our elected officials to save us from the rampant greed we continue to experience. A few like me are slow learners and will continue the fi ght.

Garfield County is experiencing a BP-like catastrophe but in relative slow-motion.

DT

Reply Forward

Jim Rada to Thomas, bcc: jrada, bcc: diana show details Jun 14 (8 days ago) Reply

Dear DT,

It's Diana Smith - checking email today after the weekend.

Tthoughts to share:

The CARES project is alive and working hard. There is a lot of information to analyze and put into a Final Report for Phase I. "Bureaucratic" it may be, but: doing things this way is a condition of EPA providing funds for the project to Garfield County. So it will be done.

Think you and I discussed that, on August 1, 2010, the Environmental Health function will have been in operation for five years. Bringing it into being was in reaction to the environmental issues in the County, and there have been significant accomplishments during that time. Among the things detailed in the report will be what has been done in the last five years.

There has been no application for a CARES Phase II. EPA expects things to go that way, which is why there are successive phases of grants to apply for. There may not be a GarCo application for a Phase II if there's a better way, or there may be. Too soon to say which way things are likely to go.

No one at GCPH is reading meaning into the level of attendance at the public meetings. There are other ways to get valuable public input.

I've heard a sense of "if only we-you-the city-the county-the state-the feds-someone could stop O&G development in its tracks", the impacts would be much less. In Colorado, it's not a legally available option to stop drilling in its tracks. Consequence of the separate mineral estate ownership. From that fact, so many historical, not to mention current-day, issues emerge that are so complicated that minds are boggled.

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11.4.2 Original Environmental Health Issues List at Start of Delphi Exercise

- 39 Issues derived from input prior to the start of the Delphi Exercise (3 pages)

Garfield County Resident Input on Issues of Environmental Health Concern

1. **BACTERIA and OTHER CONTAMINANTS in FOOD,** due to unsafe food handling in retail food establishments and homes, transmit illness.

2. **CHEMICALS USED in HYDRAULIC FRACTURING** of natural gas wells may contaminate soil, ground water, and drinking water supplies that are essential to human health.

3. **DISEASES** like Rabies, West Nile Virus, Hantavirus, and Plague are transmitted to humans by insects and animals.

4. **DRIVERS USING CELLPHONES or OTHER DISTRACTIONS** threaten the health and safety of others on the roadways.

5. **ELECTROMAGNETIC FIELDS** from power lines and transmission towers may have human health consequences, potentially including cancer and other unknown hazards.

6. **EMISSIONS** from manufacturing and industry sources, vehicles, open burning, forest fires, fireplaces, lawnmowers, and many other sources, create outdoor air pollution that can be a human health hazard.

7. **EMISSIONS** that may include Volatile Organic Compounds (VOC's) such as drilling next to Battlement Mesa golf course could affect the health of golfers and residents.

8. **EXPOSURE to BENZENE** from gas wells in proximity to residences may cause or worsen human health problems, such as nerve and bone marrow damage.

9. **EXPOSURE to LEAD** from paint in older homes, imported children's toys, and tailpipe gases in high-traffic corridors harms the growth and development of children, including exposure before they are born.

10. **FARM ANIMAL ILLNESS and REPRODUCTION** should be recognized as warnings about environmental exposures with potential to impact human health.

11. **FLUORIDE** in public drinking water supplies prevents tooth decay.

12. **FOCUS on SUSTAINABLE COMMUNITY PLANNING** helps people take steps toward energy efficiency, zero waste, energy-conserving transportation, green building, and natural resource conservation.

13. **GAS WELL EMISSIONS into the AIR**, including flaring and venting, release known and unknown substances which may cause human health problems.

14. **GROUND-LEVEL OZONE** formed as a result of driving, fueling, solvent use, industrial emissions, etc., is a harmful air pollutant that affects human health.

15. **HEAVY LARGE-VEHICLE TRAFFIC** on roads not constructed for them creates road damage and may be hazardous for other vehicles and roadside activity.

16. **HOUSEHOLD HAZARDOUS WASTE**, including pharmaceuticals and personal care products, fluorescent light bulbs, paint, cleaning products, etc., may contaminate drinking water.

17. **HOUSEHOLD WATER WELL CONTAMINATION** by bacteria and other organisms, due to mining activity, grazing animals, leaking septic systems or storm water runoff, may cause serious illness.

18. **IMPROPER DISPOSAL of GARBAGE and LITTER** on both public and private lands may contaminate water and shelter animals that carry disease to humans.

19. **INDOOR AIR POLLUTION** accumulating in high concentrations from cleaning products, fireplaces, stoves, paints, solvents, cigarette smoke, and chemicals used in building materials and home furnishings can contribute to a variety of health problems including asthma.

20. **INFECTIOUS DISEASE** spreads more easily when people are not fully immunized.

21. **LIGHT POLLUTION** at night may interfere with normal daily cycles that regulate and maintain human health.

22. **MAGNESIUM CHLORIDE** used on roads to melt snow and ice and reduce dust is a health concern for some individuals.

23. **METH LABS** create risks of fire and explosion and toxic chemicals that contaminate the interiors of buildings where meth labs are located and are challenging to clean up.

24. **MORE OUTDOOR TOILETS** would reduce the possibility of contaminating surface waters and causing illness.

25. **MORE PEOPLE UNDERSTANDING the IMPACT of ENVIRONMENTAL FACTORS** on human health in Garfield County would improve residents' health.

26. **NOISE POLLUTION** can produce stress reactions, such as increases in blood pressure, pulse rate, and hormone secretion, that over time damage people's circulatory systems.

27. **NOT ENFORCING ENVIRONMENTAL LAWS and REGULATIONS** leads to environmental health problems.

28. **NOT ENFORCING LABOR LAWS and REGULATIONS** leads to unsafe working conditions.

29. **ODORS and FUMES** emitted from gas wells close to residential housing causes some residents to feel ill in and around their homes.

30. **OVERCROWDED HOUSING** leads to the spread of contagious illnesses.

31. **POLLUTION of COLORADO RIVER WATER**, used for human consumption, may occur if drilling takes place too close to the river.

32. **RADON**, a radioactive gas found in soil, rock and water from naturally occurring uranium, with long exposure, can lead to lung cancer when it accumulates in homes where families spend time.

33. **RELEASE of RADIOACTIVE CONTAMINANTS** into water, soil, and air from drilling where a nuclear device was once detonated may cause health problems.

34. **RESPONSE to ENVIRONMENTAL EMERGENCIES** to protect human health should be part of emergency preparedness plans.

35. **SMALL SOLID PARTICLES of DUST**, created by construction, land development, crushing gravel, mining, and traffic on paved and unpaved roads, lodge deep in people's lungs and cause health problems.

36. **TRANSIENT HOUSING SITES** may be sources of soil and water contamination that have bad effects on human health.

37. **ULTRAVIOLET (UV) RADIATION**, whether from the sun or tanning beds, is the major cause of skin cancer.

38. **WALKING and CYCLING PATHS and RECREATION OPPORTUNITIES** would encourage physical activity essential to maintaining good health.

39. **WATERBORNE and WATER-RELATED DISEASE TRANSMISSION** may be caused by storm water runoff picking up dangerous materials from households, construction sites, agricultural production, and other locations.

11.4.3 Guidelines for Framing Environmental Health Issues Statements

- Working Guidelines for Garfield County Environmental Health (E.H.) Issues (1 page)

Wording Guidelines for Garfield County Environmental Health Issues

- Use "nickel" words, not "dollar" words.
- Make it "readable' – easy to follow and understand when read aloud.
- Avoid technical terminology wherever possible.
- If technical terminology is used, explain it or put it in context to assist understanding.
- Use common terminology *if* the terminology is in fact "common" in the general public, not just within Public Health or Environmental Health.
- Word so there is no apparent bias perceived by persons who are supportive of, or opposed to, an environmental or environmental health issue.
- Word so there is no apparent bias perceived by persons on any side of any contentious issue.
- List issues in alphabetical order to avoid any presumption of other ordering.
- If issues are added by respondents, add them to the end of the list.
- Make sure that any and all contributors of an issue would recognize it as their issue.
- State the precise issue or condition first, and put in bold upper-case underlined.
- State the impact on human health last.
- No duplications.
- Reword an issue that begins "Lack of" or "Absence of" to a substantive beginning.
- Distinguish among conditions that are scientifically established as causes of human health problems, conditions that may cause health problems in susceptible people but not necessarily in every person, and conditions that are suspected of, or that some people have a concern will, lead to human health problems.
- Consolidate issues if possible without contravening other guidelines.
- Remove specifics and history not essential to understanding the issue.
- Eliminate content and concepts not essential to understanding the issue.
- Eliminate words not essential to understanding the issue.
- Remove efforts to "educate" within the issue statement.
- Do not delete anything just because it seems likely to be a low priority – let the process take care of those.

11.4.4 Additional Environmental Health Issues from Delphi Contributions

- Round 1 New E.H. Issues
  (1 page)

Round 1 New E.H. Issues

INCONSISTENT HANDLING of WORKPLACE INJURIES, ILLNESSES and EXPOSURE to HAZARDOUS MATERIALS makes it hard to develop comprehensive occupational health and safety programs.

LEAVING ROAD KILL to DECAY on roadsides may cause health issues in other animals and humans.

NOT DEALING PROMPTLY with BEDBUG, TICK and COCKROACH INFESTATIONS lets them spread to other housing units and affect the health of other people.

LEACHING from WASTE PITS at DRILLING SITES and BURYING WASTE PIT LINERS on SITE may contaminate ground and surface water and harm human health.

11.4.5 Final Environmental Health Issues List

- Final list of 44 E.H. Issues (English) (2 pages)

3. **BACTERIA and OTHER CONTAMINANTS in FOOD,** due to unsafe food handling in retail food establishments and homes, transmit illness.
6. **CHEMICALS USED in HYDRAULIC FRACTURING** of natural gas wells may contaminate soil, ground water, and drinking water supplies that are essential to human health.
17. **DISEASES** like Rabies, West Nile Virus, Hantavirus, and Plague are transmitted to humans by insects and animals.
10. **DRIVERS USING CELLPHONES or OTHER DISTRACTIONS** threaten the health and safety of others on the roadways.
30. **ELECTROMAGNETIC FIELDS** from power lines and transmission towers may have human health consequences, potentially including cancer and other unknown hazards.
18. **EMISSIONS** from manufacturing and industry sources, vehicles, open burning, forest fires, fireplaces, lawnmowers, and many other sources, create outdoor air pollution that can be a human health hazard.
25. **EMISSIONS** that may include Volatile Organic Compounds (VOC's) such as drilling next to Battlement Mesa golf course could affect the health of golfers and residents.
5. **EXPOSURE to BENZENE** from gas wells in proximity to residences may cause or worsen human health problems, such as nerve and bone marrow damage.
22 **EXPOSURE to LEAD** from paint in older homes, imported children's toys, and tailpipe gases in high-traffic corridors harms the growth and development of children, including exposure before they are born.
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32. **FLUORIDE** in public drinking water supplies prevents tooth decay.
8. **FOCUS on SUSTAINABLE COMMUNITY PLANNING** helps people take steps toward energy efficiency, zero waste, energy-conserving transportation, green building, and natural resource conservation.
12. **GAS WELL EMISSIONS into the AIR**, including flaring and venting, release known and unknown substances which may cause human health problems.
12. **GROUND-LEVEL OZONE** formed as a result of driving, fueling, solvent use, industrial emissions, etc., is a harmful air pollutant that affects human health.
16. **HEAVY LARGE-VEHICLE TRAFFIC** on roads not constructed for them creates road damage and may be hazardous for other vehicles and roadside activity
18. **HOUSEHOLD HAZARDOUS WASTE**, including pharmaceuticals and personal care products, fluorescent light bulbs, paint, cleaning products, etc., may contaminate drinking water.
14. **HOUSEHOLD WATER WELL CONTAMINATION** by bacteria and other organisms, due to mining activity, grazing animals, leaking septic systems or storm water runoff, may cause serious illness.
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29.**LIGHT POLLUTION** at night may interfere with normal daily cycles that regulate and maintain human health.
34. **MAGNESIUM CHLORIDE** used on roads to melt snow and ice and reduce dust is a health concern for some individuals.
4. **METH LABS** create risks of fire and explosion and toxic chemicals that contaminate the interiors of buildings where meth labs are located and are challenging to clean up.
35. **MORE OUTDOOR TOILETS** would reduce the possibility of contaminating surface

waters and causing illness.
21. **MORE PEOPLE UNDERSTANDING the IMPACT of ENVIRONMENTAL FACTORS** on human health in Garfield County would improve residents' health.
24. **NOISE POLLUTION** can produce stress reactions, such as increases in blood pressure, pulse rate, and hormone secretion, that over time damage people's circulatory systems.
2. **NOT ENFORCING ENVIRONMENTAL LAWS and REGULATIONS** leads to environmental health problems.
19. **NOT ENFORCING LABOR LAWS and REGULATIONS** leads to unsafe working conditions.
11. **ODORS and FUMES** emitted from gas wells close to residential housing causes some residents to feel ill in and around their homes.
31. **OVERCROWDED HOUSING** leads to the spread of contagious illnesses.
7. **POLLUTION of COLORADO RIVER WATER**, used for human consumption, may occur if drilling takes place too close to the river.
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20. **RELEASE of RADIOACTIVE CONTAMINANTS** into water, soil, and air from drilling where a nuclear device was once detonated may cause health problems.
1. **RESPONSE to ENVIRONMENTAL EMERGENCIES** to protect human health should be part of emergency preparedness plans.
25. **SMALL SOLID PARTICLES of DUST**, created by construction, land development, crushing gravel, mining, and traffic on paved and unpaved roads, lodge deep in people's lungs and cause health problems.
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12. **WALKING and CYCLING PATHS and RECREATION OPPORTUNITIES** would encourage physical activity essential to maintaining good health.
25. **WATERBORNE and WATER-RELATED DISEASE TRANSMISSION** may be caused by storm water runoff picking up dangerous materials from households, construction sites, agricultural production, and other locations.
28. **INCONSISTENT HANDLING of WORKPLACE INJURIES, ILLNESSES and EXPOSURE to HAZARDOUS MATERIALS** makes it hard to develop comprehensive occupational health and safety programs.
13. **WASTE PITS at DRILLING SITES and BURYING WASTE PIT LINERS on SITE** may leach, contaminating ground and surface water, and harm human health.
33. LEAVING ROAD KILL to DECAY on roadsides may cause health problems in humans.
25. **NOT DEALING PROMPTLY with BEDBUG, TICK and COCKROACH INFESTATIONS** lets them spread to other housing units and affects the health of other people.
9. **USING RADIOACTIVE MINE TAILINGS as CONSTRUCTION FILL** allows leaching into soils and ground water with negative human health impacts

11.4.6 Spanish Environmental Health Issues List

- Final list of 44 E.H. Issues (Spanish) (3 pages)

3. **Las BACTERIAS y OTROS CONTAMINANTES en los ALIMENTOS** transmiten enfermedades cuando los alimentos no se manejan de manera segura en el hogar o en los restaurantes.
6. **Las SUSTANCIAS QUÍMICAS USADAS en el FRACTURAMIENTO HIDRÁULICO** de pozos de gas natural pueden contaminar el suelo, el agua subterránea y las reservas de agua potable que son esenciales para la salud de las personas.
17. Los insectos y animales transmiten **ENFERMEDADES** tales como la rabia, virus del Nilo Occidental, hantavirus y pestes a los humanos.
10. **Las PERSONAS QUE USAN TELÉFONOS CELULARES u OTROS TIPOS DE DISTRACCIÓN MIENTRAS CONDUCEN** ponen en peligro la salud y la seguridad de otros que circulan en la calle.
30. **Los CAMPOS ELECTROMAGNÉTICOS** que generan los cables de alta tensión y las torres de transmisión pueden tener consecuencias para la salud de las personas, como cáncer y otros peligros desconocidos.
18. **Las EMISIONES** de industrias y fábricas, vehículos, fuegos al aire libre, incendios forestales, chimeneas, cortadoras de césped y muchas otras fuentes generan polución en el ambiente exterior que puede representar un peligro para la salud de las personas.
25. **Las EMISIONES**, que pueden incluir compuestos orgánicos volátiles (VOC, por su sigla en inglés) como los generados en los pozos petroleros junto al campo de golf de Battlement Mesa, podrían afectar la salud de los golfistas y los residentes.
5. **La EXPOSICIÓN al BENCENO** proveniente de pozos de gas cerca de una zona residencial podría provocar enfermedades en las personas o agravarlas, como por ejemplo, lesiones en los nervios y la médula ósea.
22. **La EXPOSICIÓN al PLOMO** existente en la pintura de las casas antiguas, los juguetes importados y los gases emitidos por caños de escape en avenidas de mucho tráfico perjudican el crecimiento y desarrollo de los niños, incluso si se los expone al plomo antes del nacimiento.
23. **Las ENFERMEDADES y los PROBLEMAS DE REPRODUCCIÓN de los ANIMALES DE GRANJA** deberían considerarse advertencias de peligro medioambiental con la posibilidad de afectar la salud de las personas.
32. **El FLUORURO** en el suministro de agua potable pública previene las caries.
8. **El ENFOQUE en la PLANIFICACIÓN COMUNITARIA SOSTENIBLE** ayuda a las personas a tomar los pasos que conducen a la eficiencia energética, la eliminación de los desperdicios, el uso de medios de transporte que conservan energía, la construcción ecológica y la protección de los recursos naturales.
12. **Las EMISIONES de los POZOS DE GAS al AIRE**, por ejemplo, cuando se quema el gas sobrante o se arroja gas a la atmósfera, liberan sustancias conocidas y desconocidas que podrían causar enfermedades en las personas.
12. **El OZONO a NIVEL del SUELO** que se forma por el uso de vehículos, combustibles y solventes, las emisiones industriales, etc., es un contaminante perjudicial del aire que afecta la salud de las personas.
16. **El TRÁFICO PESADO de GRANDES VEHÍCULOS** en carreteras o caminos que no fueron construidos para ese tipo de vehículos causa daños en el camino y puede ser peligroso para otros vehículos y para las actividades a los lados de la carretera.
18. **Los RESIDUOS PELIGROSOS en el HOGAR**, que incluyen productos farmacéuticos, de cuidado personal y de limpieza, lámparas fluorescentes, pintura, etc., pueden contaminar el agua potable.
14. **La CONTAMINACIÓN de los POZOS de AGUA RESIDENCIALES** con bacterias y otros organismos, a causa de actividades mineras, pastoreo de animales, fugas en los sistemas sépticos o escurrimiento de agua de lluvia, puede provocar graves enfermedades.
15. **La ELIMINACIÓN INCORRECTA de BASURA y DESPERDICIOS** en terrenos

públicos y privados puede contaminar el agua y atraer animales que transmiten enfermedades a las personas.
27. **La CONTAMINACIÓN del AIRE en ESPACIOS CERRADOS** que se acumula en altas concentraciones y proviene de productos de limpieza, chimeneas, estufas, pinturas, solventes, humo de cigarrillo y productos químicos utilizados en materiales de construcción y muebles para el hogar puede contribuir a una variedad de enfermedades, inclusive el asma.
26. **Las ENFERMEDADES INFECCIOSAS** se contagian con más facilidad cuando las personas no han recibido todas las inmunizaciones correspondientes.
29. **La CONTAMINACIÓN por LUZ ARTIFICIAL** en la noche puede interferir con los ciclos diarios normales que regulan y mantienen la salud de las personas.
34. **El CLORURO de MAGNESIO** que se emplea en las calles para derretir la nieve y el hielo, y reducir el polvo es considerado por algunas personas como un factor que puede afectar la salud.
4. **Los LABORATORIOS de METANFETAMINAS** crean un riesgo de incendio y explosión, y es difícil eliminar las sustancias químicas tóxicas que contaminan el interior de los edificios donde se encuentran los laboratorios.
35. **Si hubiera MÁS INODOROS en LOS ESPACIOS al AIRE LIBRE** se reduciría la posibilidad de contaminar las aguas superficiales y causar enfermedades.
21. **Si MÁS PERSONAS COMPRENDIERAN el EFECTO de los FACTORES MEDIOAMBIENTALES** en la salud se mejoraría la salud de los residentes del condado de Garfield.
24. **La CONTAMINACIÓN por RUIDO** puede producir reacciones de tensión, como aumento en la presión sanguínea, pulso y secreción de hormonas, que con el transcurso del tiempo perjudican el sistema circulatorio de la persona.
2. **El INCUMPLIMIENTO de las LEYES y REGLAMENTACIONES MEDIOAMBIENTALES** conduce a problemas de salud causados por el medio ambiente.
19. **El INCUMPLIMIENTO de las LEYES y REGLAMENTACIONES LABORALES** genera condiciones de trabajo inseguras.
11. **Los OLORES y VAPORES** que salen de pozos de gas próximos a viviendas son la causa de que algunos residentes se sientan enfermos dentro y fuera de sus hogares.
31. **Las VIVIENDAS con MUCHOS OCUPANTES** conducen a la propagación de enfermedades contagiosas.
7. **El AGUA del RÍO COLORADO que se usa para consumo humano SE PUEDE CONTAMINAR** si se realizan perforaciones muy cercanas al río.
19. **El RADÓN**, un gas radioactivo que se encuentra en el suelo, las rocas y el agua y proviene del uranio que está presente de manera natural, puede provocar cáncer de pulmón tras una prolongada exposición si se acumula en las casas donde viven las familias.
20. **La LIBERACIÓN de CONTAMINANTES RADIOACTIVOS** en el agua, el suelo y el aire originada a partir de una perforación en un lugar donde hubo una explosión nuclear puede causar enfermedades.
1. **La RESPUESTA ante EMERGENCIAS MEDIOAMBIENTALES** para proteger la salud de las personas debe formar parte de los planes de preparación para emergencias.
25. **Las PEQUEÑAS PARTÍCULAS SÓLIDAS de POLVO**, que se desprenden de la construcción, el acondicionamiento de la tierra, la trituración de grava, la minería y el tráfico en calles pavimentadas y no pavimentadas, se depositan en los pulmones de las personas y provocan enfermedades.
26. **Los LUGARES de RESIDENCIA TRANSITORIA** pueden ser fuentes de contaminación del suelo y el agua que tienen efectos negativos en la salud de las personas.
30. **La RADIACIÓN ULTRAVIOLETA (UV)**, ya sea que provenga del sol o de camas solares, es la principal causa de cáncer de la piel.
12. **Los SENDEROS para CAMINAR Y ANDAR en BICICLETA, así como las**

ACTIVIDADES RECREATIVAS, promoverían la actividad física que es fundamental para mantener un buen estado de salud.
25. **La TRANSMISIÓN de ENFERMEDADES a través del AGUA** podría ocurrir si el escurrimiento de agua de lluvia transportara materiales peligrosos de los hogares, sitios de construcción, establecimientos de producción agrícola y otros lugares.
28. **Si SE TOMAN MEDIDAS NO UNIFORMES con respecto a las LESIONES, ENFERMEDADES y EXPOSICIÓN a los MATERIALES PELIGROSOS en el LUGAR de TRABAJO** resulta difícil elaborar programas integrales de salud y seguridad laboral.
13. **Las FOSAS DE BASURA en los LUGARES DE PERFORACIÓN y LOS FORROS de FOSAS de BASURA ENTERRADOS** pueden desprender sustancias, contaminando las aguas subterráneas y superficiales, y perjudicar la salud de las personas.
33. **Si SE DEJA ABANDONADO el CADÁVER de un ANIMAL ATROPELLADO en la CARRETERA** a un costado de la ruta, se pueden originar problemas de salud en las personas.
25. **Si las INVASIONES de CHINCHES, GARRAPATAS y CUCARACHAS NO SE TRATAN a TIEMPO**, se propagan a otras viviendas, afectando la salud de los demás.
9. **La UTILIZACIÓN de DESECHOS de MINERÍA RADIOACTIVOS como RELLENO para la CONSTRUCCIÓN** permiten que se filtren sustancias radioactivas en el suelo y el agua subterránea, generando consecuencias negativas en la salud de las personas.

11.4.7 Weighted Prioritized Environmental Health List

- The 44 Environmental Health Issues Identified by Garfield County Residents in prioritized order
  (2 pages)

The 44 Environmental Health Issues Identified by Garfield County Residents
Garfield County C.A.R.E.S. Project 2009-10 *C*ommunity *A*ction for *R*esponsaible *E*nvironmental *S*olutions

1. **RESPONSE to ENVIRONMENTAL EMERGENCIES** to protect human health should be part of emergency preparedness plans.
2. **NOT ENFORCING ENVIRONMENTAL LAWS and REGULATIONS** leads to environmental health problems.
3. **BACTERIA and OTHER CONTAMINANTS in FOOD,** due to unsafe food handling in retail food establishments and homes, transmit illness.
4. **METH LABS** create risks of fire and explosion and toxic chemicals that contaminate the interiors of buildings where meth labs are located and are challenging to clean up.
5. **EXPOSURE to BENZENE** from gas wells in proximity to residences may cause or worsen human health problems, such as nerve and bone marrow damage.
6. **CHEMICALS USED in HYDRAULIC FRACTURING** of natural gas wells may contaminate soil, ground water, and drinking water supplies that are essential to human health.
7. **POLLUTION of COLORADO RIVER WATER**, used for human consumption, may occur if drilling takes place too close to the river.
8. **FOCUS on SUSTAINABLE COMMUNITY PLANNING** helps people take steps toward energy efficiency, zero waste, energy-conserving transportation, green building, and natural resource conservation.
9. **USING RADIOACTIVE MINE TAILINGS as CONSTRUCTION FILL** allows leaching into soils and ground water with negative human health impacts
10. **DRIVERS USING CELLPHONES or OTHER DISTRACTIONS** threaten the health and safety of others on the roadways.
11. **ODORS and FUMES** emitted from gas wells close to residential housing causes some residents to feel ill in and around their homes.
12. **WALKING and CYCLING PATHS and RECREATION OPPORTUNITIES** would encourage physical activity essential to maintaining good health.
12. **GAS WELL EMISSIONS into the AIR**, including flaring and venting, release known and unknown substances which may cause human health problems.
12. **GROUND-LEVEL OZONE** formed as a result of driving, fueling, solvent use, industrial emissions, etc., is a harmful air pollutant that affects human health.
13. **WASTE PITS at DRILLING SITES and BURYING WASTE PIT LINERS on SITE** may leach, contaminating ground and surface water, and harm human health.
14. **HOUSEHOLD WATER WELL CONTAMINATION** by bacteria and other organisms, due to mining activity, grazing animals, leaking septic systems or storm water runoff, may cause serious illness.
15. **MPROPER DISPOSAL of GARBAGE and LITTER** on both public and private lands may contaminate water and shelter animals that carry disease to humans.
16. **HEAVY LARGE-VEHICLE TRAFFIC** on roads not constructed for them creates road damage and may be hazardous for other vehicles and roadside activity
17. **DISEASES** like Rabies, West Nile Virus, Hantavirus, and Plague are transmitted to humans by insects and animals.
18. **EMISSIONS** from manufacturing and industry sources, vehicles, open burning, forest fires, fireplaces, lawnmowers, and many other sources, create outdoor air pollution that can be a human health hazard.
18. **HOUSEHOLD HAZARDOUS WASTE**, including pharmaceuticals and personal care products, fluorescent light bulbs, paint, cleaning products, etc., may contaminate drinking water.
19. **NOT ENFORCING LABOR LAWS and REGULATIONS** leads to unsafe working conditions.
19. **RADON**, a radioactive gas found in soil, rock and water from naturally occurring uranium, with long exposure, can lead to lung cancer when it accumulates in homes where families spend time.
20. **RELEASE of RADIOACTIVE CONTAMINANTS** into water, soil, and air from drilling where a nuclear device was once detonated may cause health problems.
21. **MORE PEOPLE UNDERSTANDING the IMPACT of ENVIRONMENTAL FACTORS** on human health in Garfield County would improve residents' health.
22 **EXPOSURE to LEAD** from paint in older homes, imported children's toys, and tailpipe gases in high-traffic corridors harms the growth and development of children, including exposure before they are born.

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23. **FARM ANIMAL ILLNESS and REPRODUCTION** should be recognized as warnings about environmental exposures with potential to impact human health
24. **NOISE POLLUTION** can produce stress reactions, such as increases in blood pressure, pulse rate, and hormone secretion, that over time damage people's circulatory systems.
25. **EMISSIONS** that may include Volatile Organic Compounds (VOC's) such as drilling next to Battlement Mesa golf course could affect the health of golfers and residents.
25. **NOT DEALING PROMPTLY with BEDBUG, TICK and COCKROACH INFESTATIONS** lets them spread to other housing units and affects the health of other people.
25. **SMALL SOLID PARTICLES of DUST**, created by construction, land development, crushing gravel, mining, and traffic on paved and unpaved roads, lodge deep in people's lungs and cause health problems.
25. **WATERBORNE and WATER-RELATED DISEASE TRANSMISSION** may be caused by storm water runoff picking up dangerous materials from households, construction sites, agricultural production, and other locations.
26. **INFECTIOUS DISEASE** spreads more easily when people are not fully immunized.
26. **TRANSIENT HOUSING SITES** may be sources of soil and water contamination that have bad effects on human health.
27. **INDOOR AIR POLLUTION** accumulating in high concentrations from cleaning products, fireplaces, stoves, paints, solvents, cigarette smoke, and chemicals used in building materials and home furnishings can contribute to a variety of health problems including asthma.
28. **INCONSISTENT HANDLING of WORKPLACE INJURIES, ILLNESSES and EXPOSURE to HAZARDOUS MATERIALS** makes it hard to develop comprehensive occupational health and safety programs.
29.**LIGHT POLLUTION** at night may interfere with normal daily cycles that regulate and maintain human health.
30. **ELECTROMAGNETIC FIELDS** from power lines and transmission towers may have human health consequences, potentially including cancer and other unknown hazards.
30. **ULTRAVIOLET (UV) RADIATION**, whether from the sun or tanning beds, is the major cause of skin cancer.
31. **OVERCROWDED HOUSING** leads to the spread of contagious illnesses.
32. **FLUORIDE** in public drinking water supplies prevents tooth decay.
33. LEAVING ROAD KILL to DECAY on roadsides may cause health problems in humans.
34. **MAGNESIUM CHLORIDE** used on roads to melt snow and ice and reduce dust is a health concern for some individuals.
35. **MORE OUTDOOR TOILETS** would reduce the possibility of contaminating surface waters and causing illness.