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**Question #1.** "Global warming' refers to the average increase in the atmosphere's temperature caused by increased greenhouse gas emissions from human activities." Whose definition is this? This is an arbitrary political definition. The scientific definition includes all sources, not just "human activities."

**Question #2.** "Climate change," according to the National Academy of Sciences, refers to any significant, measurable change of climate lasting for an extended period. Define what is significant, how that measure was determined, and by whom. How do you accurately and separately identify "natural factors" from "human activities"?

**Question #3.** "Importantly, "climate change" implies the possibility it can be slowed or reversed with appropriate and necessary efforts of us all." Please justify this claim. Where did this implication originate? Sonoma County is approximately 1,575.85 square miles in area. Please provide the calculated climate change impact that the reduction of ground water pumping will produce in accordance with existing climate change targets.

**Question #4.** "climate change is a widely accepted fact among the scientific community. Please identify a time when the climate has not changed.

**Question #5.** Describe greenhouse gas emissions sources and quantities in Sonoma County... Since you state ground water pumping reductions and Recommends are voluntary implementation measures how do the Climate Actions Plans work with the water agencies and stake holders to achieve greenhouse gas reduction... Please provide a cost-benefit analysis showing the dollar cost to achieve a specific change in climate. Will that change in climate be localized to the County or be demonstrable at the State, Country, or global scale?

**Question #6.** You say the GWMP Ground Water Mgmt. Plan will contain a monitoring program. Please provide the parameters of the monitoring system. Please define what will be defined as a "successful" Initiative - exactly who will be making these decisions? How will the idea of a voluntary plan work with monitoring plans?

**Question #7.** During your GWM meetings you stated you support climate change policies. Please define and provide an established scientific relationship between how much a numerical measurement of our daily activities changes the climate.

**Question #8.** During the previous GWMM you stated we needed to be carbon free. Since All activities release greenhouse gases, including carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O), into the atmosphere - Please identify the number one GHG. (Answer: Water vapor accounts for approximately 95% of the GHG effect.) Please identify the human contribution to the total CO<sub>2</sub> natural and human originated. (Answer: All human activities amount to about 5% of the total CO<sub>2</sub> produced; 95% is the result of natural earth processes.) Please estimate the total human contribution to the GHG effect as a result of human CO<sub>2</sub> activities. (Answer: About 5% of 5% or about 0.25%.)

**Question #9.** Since the water agencies and stakeholders have clearly established global climate change as a real and significant threat to humankind. - please identify a time when this was not so; this is a statement calling for human adaptation; climate has always been a moving target.

**Question #10.** Please explain conflicting reports from NASA, Hadley Climate Research Unit, and others which agree that there has been no detectible global temperature-increase for over 16 years even as atmospheric CO<sub>2</sub> has increased 10%.

**Question #11.** "heat waves are expected to increase in frequency with individual heat waves also showing a tendency toward becoming longer..." Since the actual record shows no such trend or pattern for the past century, please provide the evidence for this claim.

**Question #12.** "Climate change has caused a reduction in Arctic sea ice..." Please explain the increase in the Arctic Sea and Antarctic ice mass.

**Question #13.** You told us there is a possibility that there could be salt water intrusion into our aquifer along the coastal areas which included Petaluma. "Scientists estimate precipitation could increase between 12 and 35 percent by 2050, which in turn could increase sea level by 12-18 inches by 2050..." Please explain what justification there is to accept computer modeled-future out to 2050, when these models were unable to predict the current lack of global warming. Please explain why these models did not predict the observed approximate 7-12 inches per century ocean level rate-of-rise. Please explain the observed stable sea surface temperature even as CO<sub>2</sub> levels have risen.

**Question #19.** "Health and Environmental Impacts" "Floods and Droughts" "Wildfires" "Biodiversity and Habitat" Please give factual evidence for these speculative claims. The actual historical record provides no consistent pattern for any of these claims.

**Question / Request #20.** Please clearly define your knowledge of the **Rand Corporation's Delphi Methodology / Technique** and specifically how it was utilized by the Santa Rosa Plain Basin Advisory Panel, Water Agencies and Stakeholder meetings for consensus building.

**Question / Request #21.** Please provide a detailed explanation & support materials provided and used to train those involved in facilitating the Ground Water Mgmt. Meetings. What agencies provided these materials and who paid for the handouts and materials?

**Question / Request #22.** There are approximately 495,025 people (Census/2013) that live in Sonoma County how many residents that are NOT part of the GWMP attended?

- Give a detailed breakdown of how many residents attended.
- How were these meetings marketed or advertised to Sonoma Counties residents as it appears there has been an extremely low number and a fraction of our population that attended this meetings?

**Question / Request / Observation #23.** The Ground Water Mgmt. Plan is being promoted as "voluntary" in nature, it provides "incentives" to encourage certain behavior on the part of residents or businesses. The fact remains that using taxpayer funds for financial incentives turns voluntary actions into mandatory actions for non-participant taxpayers who end up footing the bill. Thus, regardless of what is stated about the GWMP, it is NOT a "voluntary" plan.

**Question / Request / Observation #24.** Grants and Funding Sources for these GWMP -

*Will Sonoma County aggressively apply for grants and other funding sources for energy efficiency programs and renewable energy projects related to GWMP?*

Grant writing for alternative revenue sources to fund these plans has not been discussed publicly. You told us that you will be actively hunting for funding sources for this plan while basing the funding for it on the "hope" of obtaining grant funding, etc. Is it safe to assume that grant funding will continue in the current economic environment that we find ourselves.

**Question / Request / Observation #25.** You talk about the adoption of "monitoring" of ground water and well pumping. Monitoring, by definition, is not voluntary, so please clearly define what your intention are, as it pertains to the future of your proposed "voluntary" items.

**Question / Request / Observation #26.** *WHAT IS CLIMATE CHANGE?* Policies you state to support. Please include details and acknowledge the existence of "CLIMATEGATE", from Forbes: "public exposure of e-mail files retrieved from the Climate Research Unit (CRU) at Britain's University of East Anglia. Scandalous exchanges among prominent researchers who have fomented global warming hysteria confirm long-standing and broadly suspected manipulations of climate data. The communications also reveal conspiracies to falsify and withhold information, to suppress contrary findings in scholarly publications, and to exaggerate the existence and threats of man-made global warming. Many of these individuals have had major influence over summary report findings issued by the IPCC." <http://www.forbes.com/2011/01/03/climate-change-hoax-opinions-contributors-larry-bell.html>

The Senate Committee on Environment and Public Works reports that only 52 scientists authored the IPCC report that claimed man caused global warming i.e.: climate change. This is what only a few of the dissenting scientists say:

*"Since I am no longer affiliated with any organization nor receiving any funding, I can speak quite frankly...As a scientist I remain skeptical."* - Atmospheric Scientist Dr. Joanne Simpson, the first woman in the world to receive a PhD in meteorology and formerly of NASA who has authored more than 190 studies and has been called "among the most preeminent scientists of the last 100 years."

*Warming fears are the "worst scientific scandal in the history...When people come to know what the truth is, they will feel deceived by science and scientists."* - UN IPCC Japanese Scientist Dr. Kiminori Itoh, an award-winning PhD environmental physical chemist.

*"CO2 emissions make absolutely no difference one way or another...Every scientist knows this, but it doesn't pay to say so...Global warming, as a political vehicle, keeps Europeans in the driver's seat and developing nations walking barefoot."* - Dr. Takeda Kunihiko, vice-chancellor of the Institute of Science and Technology Research at Chubu University in Japan.

**Question / Request / Observation #27. Greenhouse Gases:** - Do we understand that without greenhouse gases we would not exist on earth? Has the water agencies and all of you here consulted experts relating to the facts surrounding how plants & humans require Greenhouse Gases for their very survival? Here is the Wiki page for Photosynthesis for more clarity on how plants REQUIRE Carbon Dioxide for survival: <http://en.wikipedia.org/wiki/Photosynthesis>. Please clarify that those in charge of creating the GCI are aware of these issues.

**Question / Request / Observation #28. I hear the term** "best management practices (BMP)". As there is an implied arrogance in that very term, please clearly define who originated this term and their qualifications to be able to state that what they are recommending is, in fact, the absolute "best management practices (BMP)". As California is BILLIONS of dollars in debt, please confirm that this person, or group, is NOT in the government.

**Question / Request / Observation #29.**

What measures were used to determine that the average rural residential well water use has been reduced to be sustainable for the future?

**Question / Request / Observation #30.**

What percentage of water use and ground water pumping in Sonoma County is allocated for landscaping, city and residential? What is the initial and ongoing costs for smart irrigation controllers for monitoring of water usage for rural residential and agriculture going to cost?

**Question / Request / Observation #31.**

Are there any negative effects to using urban runoff for irrigation and other outdoor uses?

**Question / Request / Observation #32.**

What is currently unsustainable with the cities landscaping standards? How is this unsustainability defined? Who specifically was responsible for wasting the counties resources by planting vast areas of unsustainable landscaping?

**Question / Request / Observation #33.**

What is the cost to retrofit municipal pumping of water wells with smart metering?

**Question / Request / Observation #34.**

What is the cost to install rainwater catch systems at municipal facilities? What is the cost and how will this water be transported to areas for reuse?

**Question / Request / Observation #35.**

What encouragement measures will be used by Sonoma County water agencies to encourage neighborhoods and Homeowners Associations to install smart irrigation control systems?

**Question / Request / Observation #36.**

How specifically will private rural well owners be affected by the new criteria for lawns and water use?

**Question / Request / Observation #37.**

What is the proposed cost for the business/agriculture outreach programs on well water and water conservation programs?

**Question / Request / Observation #38.**

What funding sources will be used for well pumping enforcement programs?

**Question / Request / Observation #39.**

Is it possible for developers and contractors to currently purchase anything but low flow toilets and shower heads and Energy Star appliances? If not, why is this included in this program?

**Question / Request / Observation #40.**

Who will pay for the expanded outreach programs and incentives for water conservation throughout Sonoma County? How much will this cost?

**Question / Request / Observation #41.**

Who will pay for the landscape replacement requirements on corporate owned county properties? What measured benefits will be achieved through this expenditure?

**Question / Request / Observation #42.**

Who will pay for education programs? What measured impact will the encouraged water consumption reduction have on

Global Climate Change and how will this be measured and at what intervals?

**Question / Request / Observation #43. Water conservation**

Please provide a detailed list of the specific studies that were used to prove that reduced well water pumping will reduce climate change.

**Question / Request / Observation #44.**

What additional expenses will the county incur for the audits? Will this require the county to increase their staff to complete these audits? If not, please explain who will be responsible for these audits and how they have the additional time to spend on audits.

**Question / Request / Observation #45.**

What will be the cost to implement the suggestions in the ground water management plan? What is the anticipated expense?

**Question / Request / Observation #46.**

What revenue sources will be used to finance the implementation of the ground water management program?

**Question / Request / Observation #47.**

Please define "Carbon Footprint".

**Question / Request / Observation #48.**

How many members of the city government and staff currently use clotheslines to dry their clothes?

**Question / Request / Observation #49.**

Since the authors of these plans have worked with other cities, in detail, explain how this plan, and its elements, is different from the plans for the other cities? Please describe the results, successes and unintended consequences of the implementation of any and all aspects of these ground water management plans.

**Question / Request / Observation #50.**

Climate change speaks about "social equity" issues related to unequal distribution of energy (water) resources and increased costs to address community wide health risks. How will these be addressed proactively to reduce potential financial strain on Sonoma County residents and all Californians.?

Please explain this in a very detailed & concrete manor. Give numerous examples of what is even meant by this term. Please explain the term "unequal distribution of resources", which hints at a redistributive ideology. The majority of the populace is responsible for their own welfare and that is a good thing. Explain why you think government agencies at any level of government should participate or have the intent to "redistribute resources or wealth". The concern for some "potential financial strain" is unsubstantiated.

**Question / Request / Observation #51.** It is of concern that those agencies working on the water management programs have not considered the Climate Actions Plans that City of Santa Rosa and the other jurisdictions in Sonoma County have and or will adopt. The water agencies have not addressed or evaluated the impact of one plan against another in terms of how they compliment each other or increase energy reductions requirements beyond what each plan requires individually? Please address these relationships between these programs and plans. Please comment on the need for duplicating these requirements on our residents and local businesses, as this redundancy may be deemed as burdensome.

**Question / Request / Observation #52.** The measure to encourage drought tolerant landscape is typical of the myopic focus on emissions/water saving. Many drought tolerant species may increase fire threats, which is a major concern expressed in climate change adaptation. This is only one of several unintended consequences (albeit not unanticipated) of these proposed plans. Please provide an analysis of this serious issue by our local fire dept. officials, as increased fire dangers should be clearly addressed.

**Question / Request / Observation #53. Page 10 - Water Management**

What are the range of possible solutions of ground water management that will allow our farmers and ranchers to continue to provide us with sustenance in a reduced rainfall? The solutions seem to have a predetermined outcome that ignores the solutions that are time honored and invoke the cutting-edge innovations. These types of issues are not new and should not be added to making a case for mitigation.

**Question / Request / Observation #54.**

**Executive Order S-3-05 - California Executive Order S-3-05 (an 80 percent reduction from 1990 levels by 2050 of GHG). Sonoma County is well on tract to meet Executive Order S-3-05. Sonoma County has target dates exceeding the state targeted dates to reduce GHG emissions. Sonoma County has committed to GHG reductions of 25% below 1990 levels by the end of 12/31/15 which exceeds other counties in California. Many of the water agencies plans contains**

**voluntary initiatives and programs that would further reduce the Counties carbon footprint - what will that further reduced GHG reduction % be?**

What is the detailed economic impact on getting to 25% below 1990 GHG (estimated values) then 80% below that value by 2050? These target amounts and dates have significant financial impacts on our residents & our businesses. Please delineate the economic impact of the water agencies programs along with the sources of your information.

In addition the entire purpose of this plan is to go BEYOND Executive Order S - 3 - 5 and reduce even more. How much more and at what cost? Enough is never enough from what I read in this plan. The combined plans will require that people do less with less. Where does this end?

**Question / Request / Observation #55.**

What is meant by Sustainable water usage?

**Question / Request / Observation #56.**

Clearly present the precise studies & evidence that lead you to determine that greenhouse gases need to be reduced.

**Question / Request / Observation #57.**

Again, the water agencies agree that climate change must be addressed. Please give a detailed examination of the variety of greenhouse gas emissions and which of the greenhouse gases are negatively affecting the environment.

**Question / Request / Observation #58.**

Please give a detailed explanation of what would be the PERFECT greenhouse gas emission rate annually for our planet. Since the water agencies are calling for a reduction of greenhouse gas emissions, what is the optimal level of greenhouse gas emissions and submit historical evidence to substantiate this.

**Question / Request / Observation #59.**

What is the #1 greenhouse gas in the atmosphere and by what %?

**Question / Request / Observation #60.**

What are the top causes of the #1 greenhouse gas in the atmosphere and can & should this greenhouse gas be reduced?

**Question / Request / Observation #61.**

As Sonoma County and its water agencies base their entire need for existence on the concept of catastrophic "Global Warming" / "Climate Change", please provide proof that the county and the water agencies current activities have a direct impact on "global warming" & that this warming is caused by increased greenhouse gas emissions from human activity.

**Question / Request / Observation #62.**

Please document historical proof & evidence that the implementation of all of the "voluntary" sustainable actions suggested for both Sonoma Counties residents & businesses will, in fact, ensure a perfect "non-changing" climate.

**Question / Request / Observation #63.** There has been discussion that sea levels may rise by 12-18 inches by 2050. The earth and it's atmosphere are in a closed water system. Since ice has more volume than water, how can sea levels rise if the earth's temperature is rising? Ice has a greater volume than water. This leads to the conclusion that if ice melts due to rising temperatures, the sea levels would actually decrease rather than increase. Can you explain why this is an issue for Sonoma County residents who are at an average of 125' above sea level? Petaluma is an average of 30' above sea level.

**Question Observation #64**

California has partnered with NOAA and NOAA's State of the Climate report in 2008 said the models would be proven wrong if there was no global warming for 15 years. There has been no warming for 15 years. The models are wrong.

**Question / Request / Observation #65.**

- Where did the water agencies and the county advertise these these Groundwater Mgmt. Meetings? •
- Were public comments recorded?
- Where are public comments posted for public viewing?
- Please provide all public comments if they were indeed recorded.
- Who specifically ran the workshops?
- What format was used (forums, power points, etc..)?
- Did the workshops have predetermined outcomes? For example, choose plan A, B, or C
- At each meeting was there a survey of the % of Sonoma County residents in attendance excluding anyone who is participating in the groundwater plans?

**Question / Request / Observation #66.**

Of those people in attendance who attended one or more of the workshops, how many of them were property / private property owners in our community? If the people from Sonoma County, who attended one or more of the workshops, were

calculated as a percentage of the total population of Sonoma County, Is this percentage an acceptable number of participants for such a massive Groundwater Management Plan? If yes, please clearly list reasons of why this is an acceptable representation of Sonoma County residents.

Question #67.

As stated on the [scwa.ca.gov/srgroundwater](http://scwa.ca.gov/srgroundwater) site - Groundwater Plan Element & Timeline the Basin Advisory Panel is developing the management plan, which is scheduled for release in fall 2013 and the plan WILL set the goals to protect the groundwater basin into the future. Why are you seeking public input and how do you gather what the public contributes when you ONLY provide 30 minutes for a "facilitated" discussion and question and answer period? Keep in mind the public facilitated questions and answer period asks the following - Is anything unclear? Did we miss anything? Does this sound helpful?

Further, if input is really being sought then WHY is the public NOT allowed to ask questions during the powerpoint agenda overview while specific slides are visible on the screen? In fact the public is only hearing plans that began in Dec. of 2011 and where the primary decision making body participated in approximately 17 meetings over that period of time. . . Explain how the public's opinions were factored into the plan that is already in draft form?

Question #68.

Show that public comments are NOW included in the draft plan concerning the "engineered" drought - wherein members of the public have repeatedly brought to the meetings information and discussion about Geoengineering aka weather modification programs which are the deliberate large-scale manipulations of the Earth's climate . . . and when the project manager was asked about these programs as stated over a several week time frame the facilitators continued to state they were NOT aware of any such programs. . The facilitators REFUSAL to examine the government documents that weather manipulation programs exist confirms that public input is only an illusion and that public participation was not really intended to have any bearing on the plan.

Question #69.

State why these water management plans are being crafted by corporate agencies? Demonstrate that corporate statutes are the will of the people and not corporate agendas based upon predetermined corporate policies, rules, contracts and grants?

Question #70.

Explain the definition of corporate statutory law and show how the people were involved in the process by providing signed approvals by those people being directly effected by these statutory rules.

Question #71.

Explain the water agencies position on fracking and if the agency plans to publicly oppose fracking. And if not why the ground water should be used for these purposes.