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**Subject:** Submitted testimony for SB3049 on Feb 7, 2014 13:15PM  
**Date:** Tuesday, February 04, 2014 5:12:19 PM

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**SB3049**

Submitted on: 2/4/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Nancy Redfeather	The Kohala Center-HISGN	Support	No

Comments: Thank you for writing this bill. Testing of radiation levels in air, water, fish, milk, soil, and plants if needed over the next 1,000 years. It will help the public to feel more comfortable with what is happening to the East.

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**Subject:** Submitted testimony for SB3049 on Feb 7, 2014 13:15PM  
**Date:** Thursday, February 06, 2014 10:45:01 AM

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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Robert Petricci	Puna Pono Alliance	Support	No

Comments: Senator Josh Green, HTH Chair Senator Rosalyn H. Baker, Vice Chair, and HTH committee members. Senator Mike Gabbard, ENE Chair Senator Russell E. Ruderman, Vice Chair, and ENE committee members. RE:3049 My name is Robert Petricci representing Puna Pono Alliance. Strong support. Aloha Senators, PPA urges you to pass SB3049. It will provide prudent information about possible effects from Fukushima on Hawaii's environment and ultimately our families. Particularly if we need to take measures to protect our keki and pregnant mothers. Thank you for your consideration. Robert Petricci President Puna Pono Alliance

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**Date:** Wednesday, February 05, 2014 9:46:02 PM

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Jim Albertini	Malu 'Aina	Support	No

Comments: Aloha Senators, Our organization supports this bill. It will provide Hawaii residents with much needed information about possible effects from Fukushima. I would also suggest that included in this bill be a provision for DU soil and air testing to be done at Mauna Kea State Park, adjacent to Pohakuloa where citizen radiation monitors have detected above background radiation on several occasions. More thorough testing is needed. The park is located approximately 1 mile from where the military has confirmed DU spotting rounds have been fired. The air monitoring should be run for weeks with proper very fine filter size. In addition we need to know the wind conditions (strength and direction) 24 hours before the sample is taken – and during the sampling if we are sampling longer than 6 hours at a time. Also we need a report of the dust making activities at PTA going on at the time of sampling. The lab results, the dust activity log and wind results should ideally be gathered independently with each group's activity blinded to the results of the other groups until a final transparent analysis. The testing protocols should be created with community participation in a manner that is transparent and will insure the confidence of the community. Thank you for your consideration in adding this aspect to the radiation testing of this bill. Jim Albertini, president of Malu 'Aina

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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Susan Douglas	Individual	Support	No

Comments:

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**SB3049**

Submitted on: 2/4/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Brad Parsons	Individual	Support	No

Comments:

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**SB3049**

Submitted on: 2/4/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Dave Kisor	Individual	Support	No

Comments: There is talk of dilution, but due to currents, the radiation could be directed in channels. Albeit it would tend to disperse, Fukushima is the gift that keeps on giving, so we have no idea how much more radiation will be ported into the ocean. The melting of echinoderms on the US mainland is suspicious, along with other organisms suffering what appears radiation sickness problems. If that is what is affecting mainland marine organisms, imagine what it would do for us here in Hawai'i. The entire ocean could use monitoring, as the food chain affects all of us. The radiation plume is on its way across the ocean and from what I understand, the lame stream media isn't covering it and the Japanese government is still preventing any news out of the country until after an election. This is unsatisfactory, as this radiation affects all Pacific nations.

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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Felicia Cowden	Individual	Support	No

Comments: This is important and long overdue. People are concerned about their health and the seemingly endless diseases that are chronic, plus forgetfulness, insomnia, learning disorders, etc. There is not enough data. Is it the pesticides, processed foods, the electromagnetic pollution, the radiation, what? what? what? It must be something... Let's start examining what is making us, the ocean and the environment sick.

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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Geoffrey Shaw	Individual	Support	No

Comments: This is much needed legislation to assure the safety of the citizens and visitors alike and also this will go a long way to reassuring all interested parties that Hawaii cares.

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Hardeep Kharbanda	Individual	Support	No

Comments:

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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Patricia Blair	Individual	Support	No

Comments: I support this bill, and Jim Albertini's addition suggestions for the people of Hawaii's safety.

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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Steven Chaikin	Individual	Support	No

Comments: We have a right and need to know the adverse effects of radioactive contamination. I strongly support this measure. Please join me and support this bill!

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Angela Leslee	Individual	Support	No

Comments: It is important for us to be aware of any conditions that may affect our health, so that we can take preventative measures.

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**Date:** Wednesday, February 05, 2014 9:25:06 AM

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
james trujillo	Individual	Support	No

Comments: mahalo for hearing this bill, SB 3049. please pass this bill to facilitate the testing and monitoring of hawaii's resources to understand better the impact of radiation from global sources. we need to collect baseline information and sb 3049 can be the catalyst for such data recording and monitoring. please pass SB 3049 and move it forward to the next responsible body to approve it's passage. mahalo for considering this testimony in favor of sb 3049

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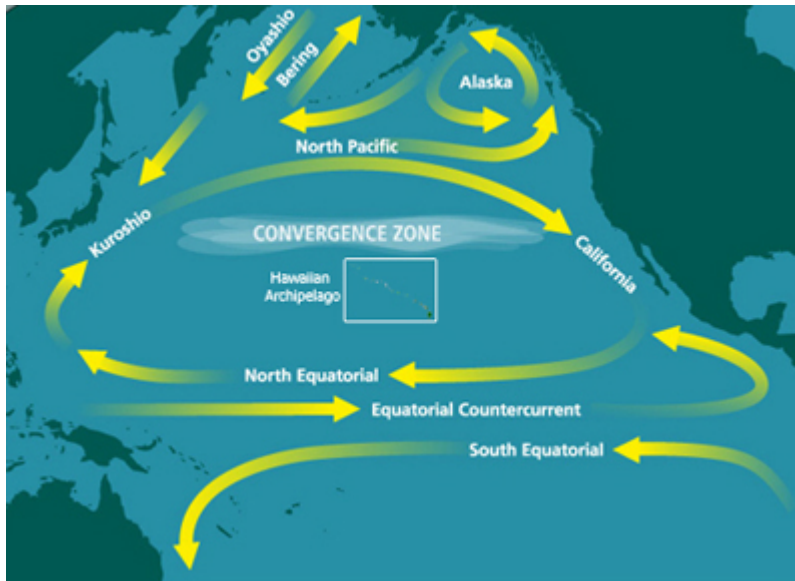
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Hilo, Hawaii 96720  
808-928-8138

DEAR COMMITTEE MEMBERS:

FUKUSHIMA IS NOT OVER.....

The nuclear event at Fukushima, Japan on March 3, 2011 continues to be an ongoing event. Everyday there is over 300 tons of water pouring off the reactors that have been used to cool the rods within those reactors. This radiation-polluted water as well as debris from the tsunami that ensued is carried in ocean currents to the West Coast of the United States and then circulated around to our beautiful islands of Hawaii. (see map)



In the wake of this unprecedented disaster which experts are saying is much worse than Chernobyl, there have been many California cities and towns who have passed bills for monitoring levels of radiation in their counties. Cities ie, Berkley, Fairfax and San Francisco, and the County of Mendocino have all had citizens passing laws for the monitoring of radiation for awareness of levels in food, water and air. According to experts it is the low-level radiation accumulation that is deadly. These heavy metals accumulating in the environment can take in some cases up to 15-20 years to cause death. The incidence of Thyroid Cancer, Leukemia and other cancers are on the rise. Birth defects are a known result of radiation as measured with Chernobyl where it is reported one million people died and eight million people were crippled by the effects.

In Alaska seals have been found to have open sores. (see bottom of page for links)

Monitoring radiation has many facets. There is Cesium 134 which has gamma particles with life-span of about two weeks. Then there is Cesium 137 which has a biological impact of approximately 300 years. Tritium, a gas, which attaches to moisture molecules is a dangerous substance that accumulates in the body. Tritium is potentially dangerous if inhaled or ingested. It can combine with [oxygen](#) to form [tritiated water](#) molecules, and those can be absorbed through pores in the skin.

The low energy of tritium's radiation makes it difficult to detect tritium-labeled compounds except by using [liquid scintillation counting](#).

Plutonium that burns the body with what is called "hot" cells is one of the heaviest metals on the element charts. Being able to monitor these substances that can accumulate in the soil, water and human/animal body requires expertise. Trained technicians and sophisticated equipment is used to accurately determine the health and safety of its accumulation in our soils.

Once the soil is contaminated there are hundreds and some say thousands of years before it is no longer contaminated. What does that mean to our staple diet here in Hawaii ie, seaweed, fish and kalo? Plutonium 238, 239 and 240 are highly radioactive but their radiation is in alpha particles, which only travels very short distances and cannot penetrate human skin. Where they are highly dangerous is if they are inhaled. Their radiation causes DNA damage in tissue, which then boosts the risk of cancer. The bone marrow and liver, where plutonium is transported through a blood protein called transferrin, are especially vulnerable. Just a dozen milligrams of plutonium are lethal for a human, according to tests on lab animals cited by France's Institute for Radiological Protection and Nuclear Safety (IRSN).

Read more: <http://www.smh.com.au/environment/fukushima-what-is-plutonium-and-what-are-the-dangers-20110330-1cfmb.html#ixzz2sa115Hch>

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ENEENERGY NEWS  
January 30, 2014

A secret 1955 U.S. government report concluded that the ocean may not adequately dilute radiation from nuclear accidents, and there could be ["pockets" and "streams" of highly-](#) While many people assume that the ocean will dilute the Fukushima radiation, a [previously-concentrated radiation](#).

Physicians for Social Responsibility [notes](#):

An interesting fact for people living on the US west coast is also included in the UNSCEAR [United Nations Scientific Committee on the Effects of Atomic Radiation] report: only about 5% of the directly discharged radiation was deposited within a radius of 80 km from the Fukushima Dai-ichi nuclear power station. The rest was distributed in the Pacific Ocean. 3-D simulations have been carried out for the Pacific basin, showing that within 5–6 years, the emissions would reach the North American coastline, with uncertain consequences for food safety and health of the local population.

**The University of Hawaii's International Pacific Research Center** created a graphic showing the projected dispersion of debris from Japan.

Last year, scientists from the National Oceanic and Atmospheric Administration's (NOAA) Pacific Marine Environmental Laboratory and 3 scientists from the GEOMAR Research Center for Marine Geosciences showed that radiation on the West Coast of North America could end up being [10 times higher](#) than in Japan:

After 10 years the concentrations become nearly homogeneous over the whole Pacific, with higher values in the east, extending along the North American coast with a maximum ( $\sim 1 \times 10^{-4}$ ) off Baja California.

\*\*\*\*\*

In summary, the need for monitoring radiation levels on EACH island is essential. The continuation of this pollution of our air, water and soil by Japan (they now have a policy of secrecy to allow any further information out regarding the ongoing pollution) and the destruction of our major food source, fish, as reported by San Diego County, California with the contamination of the Ahi Tuna behooves us to begin a comprehensive monitoring program.

This monitoring would benefit from oversight of the Hawaii Department of Health with the sophisticated equipment and trained personnel on each island. Can we afford not to know what is impacting our food supply our pregnant mothers and future generations.

Respectfully submitted,

Sherrian Witt, M.A., L.M.H.C.  
Witt Counseling Service  
Hilo, Hawaii



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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Luella Nohea Crutcher	Individual	Support	No

Comments: Aloha Senators, I Luella Nohea Chang Crutcher supports this bill. It will provide Hawaii residents with much needed information about possible effects from Fukushima. I support what Jim Albertini said about "included in this bill be a provision for DU soil and air testing to be done at Mauna Kea State Park, adjacent to Pohakuloa where citizen radiation monitors have detected above background radiation on several occasions. More thorough testing is needed. The park is located approximately 1 mile from where the military has confirmed DU spotting rounds have been fired. The air monitoring should be run for weeks with proper very fine filter size. In addition we need to know the wind conditions (strength and direction) 24 hours before the sample is taken – and during the sampling if we are sampling longer than 6 hours at a time. Also we need a report of the dust making activities at PTA going on at the time of sampling. The lab results, the dust activity log and wind results should ideally be gathered independently with each group's activity blinded to the results of the other groups until a final transparent analysis. The testing protocols should be created with community participation in a manner that is transparent and will insure the confidence of the community." Thank you for your consideration in adding this aspect to the radiation testing of this bill. Mahalo, Nohea Crutcher

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**SB3049**

Submitted on: 2/5/2014

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<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Pono Kealoha	Individual	Support	No

Comments:

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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
joy cash	Individual	Support	No

Comments: Please protect health & safety of all Hawaii citizens. Placing citizen health before corporate interests is wisest course to act upon. We can claim little value as humans if we sacrifice our children's health. Do the right thing, pass SB3049.

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
jw nalda	Individual	Support	No

Comments: If josh green thinks this is a good idea, then i believe we should do it.

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Sunny Savage-Luskin	Individual	Support	No

Comments:

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**Cc:** [begoniabarry@gmail.com](mailto:begoniabarry@gmail.com)  
**Subject:** Submitted testimony for SB3049 on Feb 7, 2014 13:15PM  
**Date:** Wednesday, February 05, 2014 6:25:23 AM

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Barbara Barry	Individual	Support	No

Comments: Aloha, This proposed monitoring is important to anyone who visits Hawaii, lives in Hawaii or eats food from the ocean or land. In other words, very IMPORTANT! Mahalo,

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**To:** [HTHTestimony](#)  
**Cc:** [lynhowe1946@yahoo.com](mailto:lynhowe1946@yahoo.com)  
**Subject:** Submitted testimony for SB3049 on Feb 7, 2014 13:15PM  
**Date:** Wednesday, February 05, 2014 5:47:11 PM

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Lyn Howe	Individual	Support	No

Comments: Why would we not want to monitor and make people aware of a potentially dangerous situation if levels rise to unhealthy levels. We must be aware and educated to make appropriate decisions. Thank you I support this wholeheartedly.

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**Cc:** [mmcardle19@aol.com](mailto:mmcardle19@aol.com)  
**Subject:** Submitted testimony for SB3049 on Feb 7, 2014 13:15PM  
**Date:** Tuesday, February 04, 2014 4:52:57 PM

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**SB3049**

Submitted on: 2/4/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Peggy McArdle	Individual	Support	No

Comments: Hawaii needs to look after our own best interest. We can't count on the Nuclear Industry and Japan to do it. Radiation detection of the air, ocean, soil and food supply needs monitored since Fukushima is out of control. Mahalo.

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**Subject:** \*Submitted testimony for SB3049 on Feb 7, 2014 13:15PM\*  
**Date:** Tuesday, February 04, 2014 1:59:18 PM

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**SB3049**

Submitted on: 2/4/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Margaret Maupin	Individual	Support	No

Comments:

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**Subject:** \*Submitted testimony for SB3049 on Feb 7, 2014 13:15PM\*  
**Date:** Thursday, February 06, 2014 1:29:08 AM

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**SB3049**

Submitted on: 2/6/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
William Harris, M.D.	Individual	Support	No

Comments:

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Personal Testimony  
Submitted Feb 6, 2014

**TO:**

COMMITTEE ON HEALTH  
Senator Josh Green, Chair  
Senator Rosalyn H. Baker, Vice Chair

COMMITTEE ON ENERGY AND ENVIRONMENT  
Senator Mike Gabbard, Chair  
Senator Russell E. Ruderman, Vice Chair

**FROM:**

Matt Yamashita  
231 Kahinani Pl  
Kaunakakai, HI 96748

**SB 3049 RELATING TO RADIATION LEVELS.**

Requires DOH to implement a pilot project to monitor radiation levels over the next five years and to post periodic reports on its website.

Aloha...

I am a 35-year old Molokai resident, a business owner, a father, a husband, a fisherman and surfer, and an active community member. I support SB3049.

I am deeply concerned about the impacts that the Fukushima radiation will have on Hawaii and the Pacific. As a fisherman of pelagic fish I am already worried that my catches may contain unhealthy levels of radiation. I also wonder if I am immersing myself and my children in radiated water when I take the family surfing. But I cannot know because there is no one actively testing radiation levels. It is a terrible feeling to doubt the things you love (the ocean, the air, the food we eat).

I think it is our state's responsibility to the general public to regularly monitor radiation levels in our air, water, and food at locations across the state and post the results in real time where the public can access the data.

We cannot turn a blind eye to the fact that Hawaii will be directly impacted by the Fukushima nuclear disaster. Real data and accurate monitoring is the best way to measure the level of impact, so that Hawaii residents can make informed choices regarding their personal health.

Mahalo...



Matt Yamashita

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**Subject:** Submitted testimony for SB3049 on Feb 7, 2014 13:15PM  
**Date:** Wednesday, February 05, 2014 2:28:38 PM

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Paul A. komara, Jr.	Individual	Support	No

Comments: The Fukushima Radiation fall out may be an extinction protocol...The Federal Government stopped taking reading in September 2011. Evidence is showing up everyday on the internet that the levels of radiation are a hazard to our life as we know it on Planet Earth. Put this project into effect. Aloha, Paul

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**Subject:** \*Submitted testimony for SB3049 on Feb 7, 2014 13:15PM\*  
**Date:** Wednesday, February 05, 2014 10:59:58 PM

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**SB3049**

Submitted on: 2/5/2014

Testimony for HTH/ENE on Feb 7, 2014 13:15PM in Conference Room 229

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Richele Frailey	Individual	Support	No

Comments:

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HB 2600

To:

I ask these committees to please pass this bill to begin measurement of Fukushima radiation contamination in Hawaii. Hawaii sits poised to be a key location to measure areas of radioactive contamination in Hawaii and the Pacific. Many of us residents here in Hawaii have been following numerous sources that indicate that we have probable cause for concern, even alarm, that our state is in harm's way and in danger of probable contamination from Fukushima. We have seen conflicting reports of the severity of the eminent danger and there is certainly many points that testify that this concern is justifiable. This is a new crisis to us humans and after more than 2 years we still sit stunned, unable to realize and cope with this new danger. We can only know for sure how bad things have become by measuring with adequate apparatus and trained personnel. We do know, however, that:

1. In California, massive amounts of fish have died of unknown reasons.

2. 100% of ahi tested in California are heavily contaminated with high levels of radioactivity.

3. Huge swaths of seafloor outside California are dead, dead animals all over the seafloor, starfish all melted. Seals losing their fur with lesions covering their body.

4. A baby humpback whale washed up dead in southern California, it was born with 2 heads.

5. In Alaska, seals losing fur with lesions covering their bodies. Salmon have been tested and found with high levels of radiation.

6. On Kauai, large numbers of fish washing up dead on shore, no reason why.

7. On Big Island high levels of radioactivity found in dairy products from dairy farms in 2011 after Fukushima disaster, they closed shop thereafter giving no reason.

8. After the Chernobyl disaster, 30 years later a million people have died of cancer and Fukushima is considered much worse.

Whether what we face is disaster or false alarm can only be ascertained by measuring with accurate equipment and trained personnel. We are all aware of the implications and are wondering...

I strongly urge the committees to pass this bill and address this urgent situation.

Respectfully submitted,

Steven Bruhjell