# ASSESSING THE ENVIRONMENTAL RISKS OF THE WATER BOTTLING INDUSTRY'S EXTRACTION OF GROUNDWATER

#### **HEARING**

BEFORE THE

SUBCOMMITTEE ON DOMESTIC POLICY OF THE

### COMMITTEE ON OVERSIGHT AND GOVERNMENT REFORM HOUSE OF REPRESENTATIVES

ONE HUNDRED TENTH CONGRESS

FIRST SESSION

**DECEMBER 12, 2007** 

Serial No. 110-163

Printed for the use of the Committee on Oversight and Government Reform



U.S. GOVERNMENT PRINTING OFFICE

49-776 PDF

WASHINGTON: 2009

For sale by the Superintendent of Documents, U.S. Government Printing Office Internet: bookstore.gpo.gov Phone: toll free (866) 512–1800; DC area (202) 512–1800 Fax: (202) 512–2104 Mail: Stop IDCC, Washington, DC 20402–0001

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## ASSESSING THE ENVIRONMENTAL RISKS OF THE WATER BOTTLING INDUSTRY'S EXTRACTION OF GROUNDWATER

#### WEDNESDAY, DECEMBER 12, 2007

HOUSE OF REPRESENTATIVES,
SUBCOMMITTEE ON DOMESTIC POLICY,
COMMITTEE ON OVERSIGHT AND GOVERNMENT REFORM,
Washington, DC.

The subcommittee met, pursuant to notice, at 2:05 p.m., in room 2154, Rayburn House Office Building, Hon. Dennis J. Kucinich (chairman of the subcommittee) presiding.

Present: Representatives Kucinich, Shays, and Issa.

Also present: Representative Watson.

Staff present: Jaron R. Bourke, staff director; Charles Honig, counsel; Jean Gosa, clerk; Natalie Laber, press secretary, Office of Representative Dennis J. Kucinich; Leneal Scott, information systems manager; Chris Mertens, intern; Alex Cooper, minority professional staff member; Larry Brady, minority senior investigator and policy advisor; and Benjamin Chance, minority clerk.

Mr. KUCINICH. Good afternoon. I am Congressman Dennis Kucinich, chairman of the Domestic Policy Subcommittee of the Committee on Oversight and Government Reform. The committee will now come to order. With me here is the ranking member of the committee, the Honorable Darrell Issa of California. And he and I will be participating in this hearing, examining the environmental issues presented when water bottling plants extract groundwater and spring water from water sources in rural communities.

Now, without objection, the Chair and the ranking minority member will have 5 minutes to make opening statements, followed by opening statements not to exceed 3 minutes by any other Member who seeks recognition. And without objection, Members and witnesses may have 5 legislative days to submit a written statement or extraneous materials for the record.

I have long had an interest in issues relating to water and water supplies. As a matter of fact, in a Spring 2006 issue of Waterkeeper Magazine, I wrote a piece explaining my concerns about the annexation and overuse of waters in Lake Erie and the Great Lakes, which is the largest source of fresh water in this country. And without objection, I would like to submit that article for the record.

[The information referred to follows:]



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Mr. KUCINICH. Now, if we give any real thought when opening a bottle of spring water, maybe it is to congratulate ourselves on our healthy choice or to dream of a shrinking waistline. But it may come as a surprise that virtually every aspect of the bottling industry's extraction of groundwater, how much water to pump and from where to pump it, the effects of pumping on the surrounding environment and who should have the authority to make pumping decisions, all these things are often hotly contested. For a variety of reasons, bottled water is not like any other commodity. And the protection of our Nation's groundwater, often understood as held in public trust, involves many crucial issues of public interest.

Some of these issues will not be our main focus today, such as concerns about bottled water quality; the profit earned off water even as public water infrastructure is neglected; damage caused by the manufacture and disposal of the bottles; the propriety of transferring water resources out of a region or out of a country. Instead, we will focus on the environmental effects of bottling on local com-

munities.

The domestic bottled water industry, which includes both distilled municipal water and spring water, has seen remarkable growth. Last year, Americans spent more than \$10 billion on bottled water, which translates to an average annual consumption of 27 gallons per person, double the amount consumed just 5 years ago. This growth has been a boon to the industry. The largest bottler is Nestle Waters North America, which through rapid industry consolidation now controls 32 percent of the domestic market through its 14 different brands.

Because of the growing market for bottled water, bottlers are constantly looking for untapped watersheds in relatively undeveloped rural communities which disproportionately bear the brunt of pumping's environmental impacts. As our groundwater hydrologists will explain, for every gallon of water pumped out of the groundwater, there is one gallon of water lost to streams in the watershed. If the pumped water is not recharged, there is a real danger of what could be called groundwater mining, which the U.S. Geological Service describes as "a prolonged and progressive decrease in the amount of water stored in a groundwater system." Moreover, high capacity bottled water extraction in headwater locations can cause large percentage reductions in the flow of streams and rivers

and the depletion of watersheds.

Bottlers may seek out private land owners or directly contract with a municipality to obtain groundwater rights for years or decades. The issue is complicated by the fact that many rural communities have an interest in the economic activity that has been promised by the water bottlers. And indeed, some communities support the location of bottling plants. Obviously, aside from the pure economic incentives, certain interests of the water bottling industry are aligned with those of the local communities. Both have an interest in protecting the pristine water sources. In other respects, however, these interests of bottlers and communities may diverge, such as the downstream effects on surface waters or the long-term visions of development and conservation.

Today we will hear from representatives of citizens groups that have opposed the location of bottling plants in their communities,

on the slopes of Mount Shasta in California, in Michigan and in rural New Hampshire. They have often been frustrated by a complex patchwork of laws that they believe does not adequately pro-

tect the public interest.

Traditionally, the vast majority of groundwater consumption is used for agriculture, mining and nonbottled municipal water. And groundwater use has been mainly regulated by the States. Under common law, groundwater has largely been regarded as a resource that can be extracted by anyone who owns the land above an aquifer or spring. The common law was formulated before modern science understood the connections between groundwater and surface water, and before the advent of large-scale mechanized pumping. As a result, it provides little protection for conservation.

Given the toothless nature of the common law, it is not surprising that States have enacted more comprehensive regulatory systems covering groundwater extraction. These come in a variety of forms. Some States like New Hampshire have enacted comprehensive laws. And we will also hear about new legislation passed in Maine and Michigan. These laws at best address the connection between groundwater and surface waters, mandate participation among those affected by pumping and call for increasing levels of security for larger withdrawals. At worse, State laws are woefully

inadequate.

Although groundwater management is mostly a State concern, many of the important decisions about locating a particular plant are local, the Federal Government does have a role. For years, scientists and policymakers have called on better funding for the U.S. Geological Service so they can map and monitor groundwater and its connection to surface water. The Federal Government could, but generally hasn't, taken other steps to prod the States to better groundwater management. There is also the issue of whether Federal agencies adequately enforce Federal protections such as the Clean Water Act, the Wild and Scenic Rivers Act and the Environmental Protection Act, that are triggered when surface waters are imperiled by groundwater extraction. Finally, there is a concern that the Food and Drug Administration's definition of spring water, which purports to ensure water quality, actually creates incentives for pumping at the most environmentally damaging sites. As far as I am aware, this is the first congressional hearing on many of these issues, and it is my hope that the hearing will help the reform process at all levels of government. So thank you.

And at this time I would like to recognize Congressman Issa, the

ranking member. Thank you, sir.

[The prepared statement of Hon. Dennis J. Kucinich follows:]

#### Opening enterment Rep. Dennis J. Kurinish, Chairman Dramatic Pulicy Substantition Oversight and Government Halarm Committee

"Assessing the Environmental Risks of the Water Burding Industry's Extraction of Groundwater"

> Wednesday, Secondar 12, 2007 2154 Rayburn 1908 - 2:00 P.M.

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Mr. Issa. Thank you, Mr. Chairman. What most of you who aren't here regularly don't know is the chairman and myself have been able to very effectively find issue after issue we agree on. When I say we agree on, we agree on the issues. We do not always agree on the outcome or the view. The chairman and I have been able to work together very well on finding good issues. This is cer-

tainly one.

In this case, I find it unfortunate that perhaps we are not looking at the underlying problem of bad potable water coming from our taps. That is probably my greatest concern here today, and we are not going to talk about it. Perhaps ancillarily, over time we will begin working on the issue. For example, here in the District of Columbia, if this water, as I suspect it did, did not come from a bottle, and is simply being disguised by being put into this carafe but in fact came out of the tap, please don't drink it. The amount of lead in our water is such that on a repeated basis each generation is told the previous generation didn't do enough. We have relined. We have done all kinds of things, but at the end of the day, and my staff behind me reminded me, the District of Columbia recently sent Brita filters out to take care of the accumulation of lead you will have if you drink that water. This is a problem in the District of Columbia and around the country.

Earlier, in the previous Congress, we dealt with arsenic. Dealing with arsenic meant essentially the pumps in New Mexico and other places were shut off, and people were forced to bring their water in from other areas. We have a serious problem of delivering quality drinking water, consumable water in this country. To a lesser degree, we have a problem delivering water for nondrinking pur-

poses.

Mr. McFarland, I appreciate the fact you are from Shasta. I am a Southern Californian. It is no surprise that southern California, accused of killing fish and stealing water from the north, might at times recognize that California is, if you will, ground zero for this problem. Northern California has over four times the rain and snowfall that southern California has, while southern California has a majority of the population. Notwithstanding the attempts to build canals and to move water from the north to the south, far greater than all the bottled water that is being taken out of groundwater in California, far greater, and as a result, we could assume that what doesn't go into the ground in northern California and comes through peripheral and other canals doesn't go into the groundwater. California has been having this argument for in excess—well, I came to California—I will be honest—I came to California in the 70's. It was the hot topic then. It is the hot topic today.

Realizing that these problems in California and around the country will not easily be solved, I am an advocate for any system that guarantees healthy drinking water for our citizens. I have ques-

tions for today that will not be answered.

And Ms. Paul, I am not letting you off the hook. I still can't figure out why between drinking water and Starbucks coffee, gasoline seems like a deal from OPEC. There is a high cost of delivery of water through little bottles and so on. And I think that is a problem. The chairman pointed out in his opening statement that the

question of disposal of tens of millions of little plastic bottles, not just every year but every month, is a real problem in America; the need to come up with an aggressive recycling plan; the need to, if not regulate, certainly ensure that bottled water and other forms of water delivered around the public systems are at or greater in

quality to those that can be received from the tap.

I thank the chairman for his bringing up this point today because it does open a dialog for the first time by this committee and, as far as I know, for the first time recently in Congress, to the fact that safe drinking water, affordable drinking water and sustainable aquifers around the country are in peril. So although I mentioned everything that wasn't in today's committee hearing, you have to begin somewhere. I commend the chairman for beginning the process. I am sure that when we review the notes of today, we will find far more available to us to digest than I am talking about here today. And hopefully, in time, we will hit all of the issues leading to America drinking high quality water.

And in closing, I will note that the chairman and I are both native Clevelanders. So I share the fact that the Great Lakes are the greatest body of fresh water available on the planet and that very much bee need to look at that as a resource that is carefully man-

aged. And I yield back.

Mr. KUCINICH. I want to thank my partner on this committee,

Mr. Issa, for his comments.

And in response, I just want you to know that this is a beginning. I would like to be responsive to what you suggest in looking at questions of the potability of water, drinking water, in this country as well as looking at the questions of water quality generally, both for drinking and nondrinking purposes, as well as the issues related to plastic, or bottled drinking water. I also want to say, and I appreciate you mentioning Cleveland, because as I indicated in my opening remarks, the issues relating to Lake Erie and protecting that drinking water and protecting the volume of the water are also, you know, I know of concern to States like California, because the access to water in your State is a serious issue as well. So I want to work with you in making this the first of perhaps many hearings we could have on this issue of water. And I appreciate the gentleman's comments very much.

Mr. ISSA. Thank you, Mr. Chairman.

Mr. KUCINICH. I appreciate it. If there are no additional opening statements, the subcommittee will now receive testimony from the

witnesses before us today.

We will hear from Mr. Richard McFarland, who is a founding member of the McCloud Watershed Council, a nonprofit community-based organization providing stewardship and advocacy for the McCloud River watershed in the Mount Shasta region of California. In addition to his advocacy, Mr. McFarland is president of Terra Mai, a pioneer in the green building movement, which uses recycled lumber for its building projects. He has also worked as a professional river guide and an expedition leader.

Next we will hear from Ms. Terry—is it Swier?

Ms. Swier. Yes.

Mr. Kucinich. Ms. Swier is the founder and president of the Michigan Citizens for Water Conservation, a nonprofit, grassroots

organization of over 1,900 members. Ms. Swier has helped educate State legislators and Members of Congress on the Nestle water issue, and has raised the public's awareness of the importance of water diversion and export. In addition to her environmental work, Ms. Swier recently retired after 30 years as a university librarian.

Next it will be Mr. Bill McCann. He serves on the board of directors of Save Our Groundwater and is chairman of the organization's Committee on Legislative and Governmental Issues. Founded in 2001 in response to a bottled water company's attempt to draw from a local aquifer, Save our Groundwater is a New Hampshire seacoast area citizens action organization dedicated to protecting water in the public trust. Mr. McCann has also been a New Hampshire State representative, where he served on the Resources, Recreation and Development Committee.

And finally, Ms. Heidi Paul. Ms. Paul has been vice president of corporate affairs for Nestle Waters North America since 2000. Ms. Paul is responsible for all aspects of the company's corporate communications and community relations. Before taking this post in 2000, Ms. Paul was the director of brand management for Nestle Waters. She is also chairwoman of the Project WET, a not-for-profit

organization involved with international water education.

I want to thank each of the witnesses for appearing before our subcommittee today. And it is the policy of the Committee on Oversight and Government Reform to swear in all witnesses before they testify. I would ask that you rise and to raise your right hands.

[Witnesses sworn.]

Mr. Kucinich. Let the record reflect that the witnesses answered in the affirmative.

I ask that each of the witnesses now give a brief summary of their testimony and to keep their summary under 5 minutes in duration. I would like you to bear in mind that your complete written statement will be included in the record of the hearing.

So let us begin with Mr. McFarland, if you would begin your testimony and address the Chair, we appreciate your presence here.

STATEMENTS OF RICHARD MCFARLAND, FOUNDING MEMBER, MCCLOUD WATERSHED COUNCIL; TERRY SWIER, FOUNDER AND PRESIDENT, MICHIGAN CITIZENS FOR WATER CONSERVATION; BILL MCCANN, MEMBER, BOARD OF DIRECTORS, SAVE OUR GROUNDWATER; AND HEIDI PAUL, VICE PRESIDENT OF CORPORATE AFFAIRS, NESTLE WATERS NORTH AMERICA, INC.

#### STATEMENT OF RICHARD MCFARLAND

Mr. McFarland. Thank you, Chairman Kucinich.

My name is Richard McFarland. My wife, Erika, and I settled in McCloud, CA, 20 years ago. We started a small reclaimed lumber business, which has grown considerably and is currently the largest private employer in our small town of 1,800. We started a family, and our three sons are also growing rapidly.

McCloud sits at the base of 14,000-foot Mount Shasta, a dormant volcano that dominates the landscape in far northern California and draws visitors from around the world. Mount Shasta's glacier and snow melt feed the McCloud River, a hydrogeologically unique,

crystal clear, ice cold stream, well known as a world class trout fishery. It is a major tributary of the Sacramento River, the backbone of California's public water system.

McCloud is a former lumber company town. The McCloud Community Services District provide our de facto city government. We are blessed with a spring-fed municipal water supply that provides exceptional quality, untreated cold spring water to every tap in

town.

When I settled here in 1987, McCloud was economically depressed and was in a general state of disrepair. Most of the buildings downtown were dilapidated or boarded up. In the last two decades, there has been significant capital investment in McCloud. One old timer recently told me that the town has never looked better. To the objective visitor, McCloud would appear to be thriving.

In the fall of 2003, during a public meeting, the 100-year contract selling our water to Nestle was both announced and approved. We had assumed that this hearing was going to be the beginning of a public process. In fact, it was the culmination of back room negotiations between Nestle and a few local politicians and public servants. This triggered a series of events: a 3-year lawsuit, which resulted in the contract being thrown out by our county superior court and later reinstated by an appellate court; Nestle serving harassing and intimidating subpoenas on local community members, including myself; a draft environmental impact report, environmental assessment that generated an astounding 4,000 comments, most of them opposed to the project; the development of the Siskiyou County Water Network and the Siskiyou County Protect Our Waters Coalition.

The Mount Shasta area is already home to four other bottling plants already pumping unlimited groundwater. The scale of the proposed Nestle project raises serious concerns about cumulative impacts to Mount Shasta's unique volcanic ground and spring water systems. California lacks comprehensive statewide groundwater legislation. Sound policy requires that groundwater management be based on science.

This is a State and national water policy issue. I respectfully re-

quest the following of the subcommittee:

Please consider Federal support for State and local efforts to protect community water resources. Specifically helpful would be U.S. Geological Survey scientific inquiry to monitor and characterize Mount Shasta's ground and surface water resources. This is especially important in the face of potential climate change impacts on California's water supply.

Please ensure that the U.S. Forest Service completes an environmental impact statement for the Nestle project in McCloud. The pipelines for the project travel through several miles of U.S. Forest Service land on public easements intended for municipal use.

Please consider investigating the practices and impacts of Nestle and other large water bottlers in McCloud and other small rural communities around our country. Please consider enacting legislation or policies that protect the significant investment that tax-payers and ratepayers have made in our public water supply infrastructure from corporate exploitation.

And finally, please consider investigating the negotiation process that led to the contract between the McCloud Community Services District and Nestle Waters North America. Thank you very much for hearing my testimony today.

[The prepared statement of Mr. McFarland follows:]

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Mr. KUCINICH. Thank you, Mr. McFarland. Ms. Swier.

#### STATEMENT OF TERRY SWIER

Ms. SWIER. Yes. Thank you.

It has been 7 years since the residents of Mecosta County, MI, were made aware of Nestle's plan to pump over 250 million gallons of spring water per year from a private hunting preserve, divert it through a 12-mile pipeline that crosses streams and wetlands to its plant, bottle it, and then truck it outside the Muskegon River watershed and the Great Lakes basin under the brand name Ice Mountain.

As Nestle moved into Michigan to privatize our water for its own profit, it announced that there would be no adverse resource impact to the natural resources. Then, in December 2000, about a hundred citizens met, and Michigan Citizens for Water Conservation [MCWC], a nonprofit, grassroots corporation, was formed.

MCWC's mission is and has been to conserve, preserve and protect the waters and natural resources and public trust in those resources of Michigan and the Great Lakes. MCWC has grown to over 1,900 members and continues to work on water preservation

and conservation issues with other organizations.

MCWC began at the local level, asking our elected township officials to place a moratorium on the Nestle project to give us time to investigate and evaluate a proposal of this magnitude for the potential impact on neighboring wells, lakes, streams, wetlands, wildlife and the community's quality of life. Elected officials did not hear or listen to our voices. This eventually led MCWC to three petition drives on rezoning ordinances, and to three courts, the Mecosta County Circuit Court, the Michigan Court of Appeals and

the Michigan Supreme Court.

The findings of harm from Nestle's pumping remain intact and unaffected in all three courts. MCWC believed then, and it now has been proven, that irreparable harm would occur to the waterways due to pumping by Nestle at the Sanctuary Spring site. Nestle's pumping has caused harm to the Dead Stream by reducing the flow and level, narrowing the stream, exposing mud flats and restricting the enjoyment of many of the members of MCWC, and the public for fishing, boating and kayaking on the stream. The findings of fact are in the court records that Nestle's pumping has created and will continue into the future to create adverse impacts to riparian uses and rights.

What will this ancient marsh watershed area, including Thompson Lake, be like for future generations? The lives of the 1,900 members, including the plaintiffs, those who live on the Tri-Lakes, and mine, have changed since Nestle came to Michigan. The issue has pitted neighbor against neighbor, friendships have been severed, and Nestle has violated our lives either directly or indirectly with telephone polling, private investigators, the FBI coming to our homes, and a potential Strategic Lawsuit Against Public Participa-

tion, a SLAPP suit, against my son.

MCWC has spent nearly a million dollars on the lawsuit against Nestle. We continue to hold fundraisers, such as bake sales and garage sales, to continue to pay our legal and environmental bills.

Nestle has affected families emotionally, physically, mentally and financially. MCWC believes much of what it has done and stands for is supported by a majority of Michigan citizens.

Michigan purports to be a good neighbor company to our area, yet it continued to pump at high rates during a low period of low participation and lower recharge. Even when bottom land and other dramatic impacts and damages to the Dead Stream, Thompson Lake and wetlands have occurred, Nestle has continued to pump. Nestle was cautioned by the trial judge that it proceed at its own risk in building its plant in Stanwood. True to form, Nestle pushed ahead in building its plant and continued to use the possible loss of jobs as ways to push through with its lobbyists in Lansing to get to the Governor and her staff and legislators to side with an international company and not the citizens.

Water grabbers like Nestle undermine the interests of our sixthgeneration residents who live on the lakes and streams; the public that fishes, boats, swims and enjoys our lakes and streams; farmers who rely on our groundwater; and industry and our economy that are so dependent on our water. Water is our heritage and our culture. It must be protected for our future generations. Thank you.

[The prepared statement of Ms. Swier follows:]

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Mr. KUCINICH. Thank you very much. Mr. McCann.

#### STATEMENT OF BILL MCCANN

Mr. McCann. Thank you, Mr. Chairman.

Good afternoon. My name is Bill McCann, and I am a member of the Board of Directors of Save Our Groundwater, which is located in Barrington, NH. I am a resident of the adjoining city of Dover, the seventh oldest settlement in the United States, having been settled in 1623. And I am also a member of the Conservation Commission in Dover, as well as a former State representative.

Last spring I submitted to this committee a document entitled an Analysis of the New Hampshire Department of Environmental Services Reversal from its previous denials of the Large Groundwater Permit for USA Springs on behalf of both Save Our Groundwater and a spin-off group called Neighborhood Guardians. I trust that at some point that will be entered into the record and the members of the committee will have an opportunity to review it. What transpired in Barrington was a private corporation coming into the community with the goal of extracting over 400,000 gallons of water a day. What transpired, and I can speak to this as someone who was involved when we passed New Hampshire's law, was the first implementation of RSA 485-C, which was New Hampshire's Groundwater Protection Act. And this was by far the largest withdrawal that came under the jurisdiction of this law. And I and other citizens in the area watched very carefully to see what was happening, because we thought the groundwater would be protected. What we saw was our State government and some Federal agencies not implement what we had anticipated. We had expected that there would be protections for the environment, protections for prime wetlands, protections for the people who live in the area.

Barrington and Nottingham are located in the southeast portion

Barrington and Nottingham are located in the southeast portion of New Hampshire equal distance from Concord and Portsmouth. All of their households rely on private wells for all their potable water. There is no town water system. These communities, like Dover, are old. Both were settled around 1719 to 1722. They have a rural nature. They try to work hard to protect their citizens. A total of about 11,000 people live in the two communities. What happened in this instance was a failure by State government and

Federal agencies to protect the groundwater.

This company, as I said, a privately held company whose business plan said they are going to bottle this water and ship it overseas—in other words, take it out of the aquifer, have no impact, there will be no recharge in New Hampshire. It will have a definite impact on the quality of surface waters. The Lamprey River, which

is nearby, is a federally protected water basin.

So we anticipated that between our State government and our Federal Government that steps would be taken to protect. At first it seemed to work. The permit was denied in 2003. It was denied a second time later in 2003. But then they reapplied for a new permit at the end of 2003, and 6 months later, the permit was conditionally approved. I can tell you from firsthand experience, a lot of people in the area of the southeastern portion of New Hampshire became very disenfranchised with what government was doing to

protect their precious water resource. They expect, and they still do expect that the State government or the Federal Government or some combination of the two will work to protect the aquifer and the water resources in our State, and hopefully in other States, because I am sure, as we have heard from these other witnesses, we

are not the only ones impacted.

We are impacted because we don't know right now when this plant will start operation. There are people who are concerned that when that plant starts to operate, they are going to get up in the morning and find they don't have water. They don't have any reassurance from our Department of Environmental Services or from the Army Corps of Engineers or any other Federal agency like EPA that there is protection in place for this possibility. So they are very concerned that this particular situation with USA Springs, as I said, a privately held company, we don't know what will transpire once the plant is built. They are in the process of doing it. They are building the plant even though they have not received final approvals on their wetlands permits and there are appeals pending. The only thing they have used for their basis to continue moving forward is they did get a Supreme Court case to go their way in 2006.

But when the State issued the permit, there were 10 conditions. They haven't been met yet. And I hope that this committee can take a look at the situation and maybe be able to assist the people of New Hampshire, as well as the rest of the country, from having problems like this in the future. Thank you.

[The prepared statement of Mr. McCann follows:]

#### Statement Indice Departic Pubes Consisten

Good affarmed No. Chairpean and members of the sub-contribute. My name in Bill No-Case and Lays a member of the Rhand of Devoters of Services Case Semandroses (NOS), which is bound to Barringon NOS. I are a mobiles of the adjuining City. Dever NM the severals oldest settlement in the Case of Services being active to VOS, Lans a member of the Dome.

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Liebranously, as it turned out, the information provided did not reflect the malability of the abustion. For example, Mr. Glump meant "There will be a pump test with both siles reposing before a permit is bound". "Mr. Glump in soluting to the USA Springe for, who and the flumor liberaum sile, now known as flust Cases Randy. As of today to pirealteness pump and has been done. When has been learned recently in the NODES closed in this on the construction issue gapp; in May 29, 2001," This becomes containing when one erries a decisionate provided by the NM Department of function [NMEXICS], which obegin the USA Springs late, was made aware of provided patterns on the different dates gapp; to NMEXICS closing to the number of provided patterns."

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Corp issued to the applicant an authorization under NM fram Program Cours.
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Mr. KUCINICH. Thank you very much, Mr. McCann. Ms. Paul.

### STATEMENT OF HEIDI PAUL

Ms. PAUL. Hello, Chairman Kucinich. Thank you for the opportunity to appear before the subcommittee today. My name is Heidi Paul. I am vice president of corporate affairs of Nestle Waters North America.

Nestle Waters bottles and sells 15 regional brands of bottled water, including Deer Park and Poland Spring. We employ 9,000 employees in North America, and we have plants in 21 communities in the United States and two in Canada. We have been invited today to testify about the environmental effects of bottled water on groundwater and our operations in communities. Bottled water represents 0.02 percent of groundwater used. As a company, our use is sensitive to the environment and very efficient. We bottle a very healthy beverage. Not including bottled water, there are close to 75,000 different types and sizes of containerized beverages for sale in America. Most have calories, coloring, chemicals, alcohol or caffeine. In 2006 alone, Americans avoided 356 billion calories because they switched from soft drinks to bottled water.

Today Americans consume twice the amount of calories from beverages as they did a generation ago. Childhood obesity is up 370 percent in the last 30 years. And at this rate, 25 percent of our children and 75 percent of our adults will be overweight or obese by 2015. Part of the solution to this epidemic is to drink more

water, tap or bottled.

And bottled water has another important social role. For those who have ever lived through a natural disaster or other interruption of water service, including the hurricanes in Florida, ice storms in Maine, 9/11, Katrina, wildfires in California, floods in the Midwest, bottled water is the safety net to the most critical need of all, potable drinking water. Bottled water is also easier on the environment than any of these other beverages. It uses less water, and it uses less plastic.

And when it comes to collecting and bottling spring water, Nestle Waters has an inherent interest in being a steward of a healthy environment at our spring sites. Our spring sources and the facilities that use them represent our most valuable investment. And using springs in a responsible manner today is the only way to ensure our continued success. Moreover, we select only those sites with a safe and sustainable yield, measuring any effects of our withdrawal, and understanding the cumulative impacts of all water

users and a shared supply.

It is appropriate that communities would have questions and concerns about our water use and other impacts on the community's quality of life, both in terms of opportunities, like jobs, and challenges, like truck traffic. For example, in Michigan, there are concerns about the water use impact. In fact, it went to court, as Ms. Swier mentioned. Michigan courts ruled that bottled water is a proper and beneficial use of water in Michigan, and the company has the right to withdraw water at an appropriate rate determined under the State's reasonable use balancing test. Following the Court of Appeals ruling, the company and project opponents en-

gaged in mediated negotiations to determine the allowable rate of water use. Data reflects that this is a very safe level.

In McCloud, CA, we are in the middle of a comprehensive environmental and community-based regulatory process. In response to concerns, we are engaged with environmental groups, concerned citizens, together with third-party science experts in biology and hydrology from the University of California, Davis. The goal is to get increased information on the sustainable and safe water use levels for the project. There remain open questions on the economic benefits to the town and other impacts. There are materials provided that address some of these concerns. We plan to meet with all stakeholders to discuss the economic reports that have just come out, and gain a greater understanding of concerns and different points of view. We respect differences and try to address concerns through a variety of actions, but there are also times when we have not been as successful. And we are learning in those places and are open to work with stakeholders to do this in a better way that is open and transparent.

We also have a responsibility to the environment. My company has supported and will continue to support comprehensive science-based laws and policies regulating water withdrawals. The goals must be long-term sustainability, fairness for all water users, openness to public input in order to provide a responsible framework for decisionmaking. For example, in Maine, New Hampshire and Michigan, we have supported recent legislation that meets these standards. Thank you for your time and attention.

[The prepared statement of Ms. Paul follows:]



# Traditions of trad of Paul of

December 12,3007

Charmal Russell, Raylong Martine too, and harmost of the Substitutions, my rapids a Hard Play. I are lifes Proposed of Europeaks offices at Readill States, North America. By office is in Streetwise, Connection. There you for the opportunity to present the written residency.

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# McCloud, CA Case Study

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Problem Mischmost and the surrequesting fleetings County fleet garrious economic chapterings. The stock unemployment is two in the percentage points higher than the fuelthrous prenings. The median fusional mounts also despressed. Although fleetings for stock assertings. The median fusional mounts are despressed. Although the stock appropriate fleet had no taken the fleetings south or for work. The local surface are the development break points for the stock replications of the southward surface at the accommodate property fleetings are the southward of the supports. The community's accommodate property according to the southward of the property closed out of the southward of the property closed out of the southward of the property closed out of the southward property and the southward to use the side of the problement being the day for property.

# Making of a relationship.

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Mouth Majors was not solving to plu at factory in the horizont part of Spillottip or nickly that package interested in test (1905 part early (1906), in most (1906), other professingly interligations, that different profession franciscons conducted in MCESS public healthigh, an appearant past extend into between the parties distance in this appearant. Neetly excell pointures going water as an Millith pushing and highly a multi-rolling dollar invasionari in the Millians's community, resulting in a place?, pushfoliation between thems is august district operations.

# Annie benefits i Consecutio benefits.

Needs there has agreed in but a new LESS-certified betting facility on the forms not properly. It will both spring water purchased as a commercial outcome of MUSO particle any other business in their.

to disconnected by the Contractor Equations Development of California State Chica. The proposed project would count up to (14) population at Millions and, and open the creation of (4) according pales. The otherwises analysis also found that at full build not beautiful project until time at least \$20 million in recovery in conducts, and found that at \$40 build not beautiful project until time at least \$20 million in recovery in conducts, and gill represent Debted reconsule by hearty 10% by the time for figuring it had not. These furth cars in cost to output all infine Debted according to one and arrival residence of the proarrival print, made contained, where furnishing order and other services are described splinting.

The projected plant and he the searchy experience development not past in Michigael day throughout the region providing as many as \$1 miles in providing property do reasonal. The conversables in Description Description on Michigael standards are described and the original and the experience of the original and the extremal approximate approximate or Michigael and benefit the extre region. The support of the original and their groups fortugated the region demonstration description of the experience of the experi

#### Commission of Private Street

Surply the proper law be tack, it has undergo electron promotioning spoke under the Californian disconnecting Stability for one below. This prosper is in addition to header organization and selection and members program.

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The ESSENDENT privates is some sugarded as one of the most allegant announcements received in some filter based. Refer the sold interest car local in plant gray begin continently any water from MESSO. The Country's SEASA must be compared and any potential impacts that are desired reproduced outside continents from the produced and produced and produced outside continents from the potential and produced outside the produced outside continents from the produced outside continents from the produced outside continents of produced outside continents.

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As with an insule fleater facilities, the Minister original and reducts an extension long-term spring sales and reduced resource managing program is arrown the fragitof Microsofts spring bourses and surface only processed.

# Reads it a constitut contractly person

Streng commands relations, impring differential engagement and an open approach is communications with respirators, commands resource, and project coperate an at integral part of the McCount project. In Bettings sent at of our spring contravalles, we continue to each to manner open communication and local econ and community community methans.

The contegery has been working with WCGS. The reactions of Birchard are the greater contributes of Seasons County for more than four pages in contributing the programmed map before pages. Once this parties, the company has man non-humanital areas with contractly reported, weather, seeling has and proceeding questions about the proposed project and estimated operations. WCGS has also provided multiple apportunities for the pages and origining spreadures of the processes properly.

made figure is another impropriating with regarded comprosion organization and an Lathonia fisher and final promotion as was as with the Michael Material County of the group of process for their consense on with model in the final property process.

# Appropriate translation of legal features

immediately after featile companies to approximate with the Nei-Chair Economicity Services Depth! district any of the recipient environmental environ equi companies of the properties preparation to temporal county to permitting, a small property community framework qualities (charge, MCRO) and temporal through a small property new temporal fully environs in Regulative Section, and the environmental environ and community softward property communities as previous.

# Local teatest for its proposal water beilting plant

After the sting of any light industries facility is not extract continuous. The programs the least project has the suggest of the majority of the Bookway Continuous to the suggest was commission to the education of these privariages operations in the MCBD floors of Despoises in Recentler 2000. This sensition can writing registers on a subvanishing on the cooking point project and confirmed that the regards of McCloud conducts august the projected project.

Economic for Park Street project has constructed in the Servicion of the SECOND Conservation Controlled, resulting of many the long Marinard constants who are winterly regarded in high process that frame and plant and other one conversarily services produced by the one MacCond september was and rep. the fully. The Conservation Controlled August for the MacCond properties for the high quality paint and other formalis is processed to dispect for many other Servicion County resolution of the later appeal is preferred appointing the properties.

At the spine time, these contracts to communicate with encommunity projet (primarily Car Trical and Trical Unimplied), and the WolChild Waterspiel Council, to extreme their converse poer the project.

this harmony than company, community to built his province employment over the McCloud community, and improve the authoral well office improved appropriation including businesses, lovely photometric province and other financial experience for the artist. These community and improved and imp



















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# A Response To Important Questions About Ice Mountain Borded Water



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NYME and the a compressor of PACIES and NYME has no more dath is notice than are PKSS2 water pullerant. In fact, there are no public water rights being conveyed to WRINA. BREM will be intested the any polar outlanter of MCSS.

For exemple, in the event of a drought and the Violengiation of water conservation receives to 76.50; 'RETAI's compressed by curtained, put the any other commercial MCSO customer. There is hething to MCSO's. contract or any local or obey less that exempts NANA from consisting with drought edispalan measures.

We can't depend on CRQs or within plate line to protect us. The community must want with our county programming to make the minima broken and to amount that these winited are respected.

**Pedi** 

CDSA is the hold attrigent environmental viting associal in the probabilities and has been assumeful a self-sorrie economistic and community releases throughout Dafferton 400,1870

The alebita response public agency abcomin meturis (fluitions) County and MCSO, in this local to markets the parameter protection impatts of any proposed project. Environmental requests in this context include impacts to the "human anymoreaet" such as haffe, subura resources, and andhelits, among others. All polerical impacts escentered will-the proposed belling plant are being evaluated under CRIGA.

CTOR requires reference judits perforanties. The provides AT ADJUSTATION BY THEIR TREDWISS, BARK ADJUSTED BAY OTHERS to seption that constitute and comments to the county and the linkrish. The public common partial as the trigh lish Sepan on July 14, 2006 and see estended 15 days one the argine theirg data in that it ended in Sigherber 13, 2006. The Causta is in the process of revening and requireding tothe constautio occurred on the braft \$10/44 to contain a Free EB/SA. The agencies must respond to let former comments before making a final decolers on the properties project. Additionally, parts of the projected project will whelefasting leavest floraugh 567%.

Filter's uses absolutely on research done on the impacts of Markly mater share are the Nahary before the continued was algored.

Part

MISSIONS required that all reports of the prospect brights. yearly the impacts on the extended and full populations. to thoroughly audicated under CROpt before any patter is selfto thicke. CROpt requires that an extension devaluation be surfacilist to certified hydrogenisping and introgram to determine any potential respects or water resources or equate life. Anyty, MCSD cart provide any water to from anything (CROpt analysis of the "water draw" has been

#### Myste Health will shall the McCloud Blow.

Assets set not draw the McCland Nover, against last assets sustance of the RicCland Contentially Services Section and editions on processing of 1,600 pare field of mater per seas.

> A 1,800 acre has withhouse for botting, should be come strainty from the Michael Mose (which self out happen with for project), would represent place 5.5% of the materix one flow from the more. It would be over a projet percentage when configured to manage ormus flows. These act also no subfit water regista looks conveyed to Million the configure will be represed the projetting options of the District. Appartus impacts to the websithed and flot appointment will be extensively contented through the computations make process before any water is used to NOMA.

Wyth MCRD rushed the regarded or process with Assets and ally not after for adequate purify input ... The precise used in approve the contract was founded and allineed for as effective or messurates public input.

> MCSH paper account a bender productive the promittes of building partie of the water for color paper sale. The overviews reducted commissioning a topogal which concluded that the most economical addison would be to parties with an ociding lection mass projectory, remain their communiting and specialty to one opport feeting paper. MCSH pass had experiency including proposed contracts with patternal sections while their best lesson approached to and everyunal tortions while their based come approached to and everyunal sections.

Throughout this multi-major processes. MCSD held multiples public meetings, extended roped from the Pacificult consequently and puriously discounts with a represent of different bettied with companion. Its evaluates the market for its water.

times William tengen requirement with Nethel and the patential terms of that contract were under consideration, MCSS conducted a series of public markings offerings (the community plant). The progress of the requirement with

etietes. Subsequently, another public reporting uses had intrapparties 2000 and them was public discussion for two fearly after which the PCSO Sound approved the final contrast.

Might The public about have unled an the contract before it may algored.

There is no requirement for a public vite to authorize PCSD to provide services to any customer. Authorize rigust were quithword at the PCSD meetings before the floand of Timestons unless to approve the customs.

Alpha to prove measuragily according of its autorogenous contract, Plantid approximativita Statistics County Superior County ruling. Since thesets is well-acquisited with Castilores wer. I've close they maybe at assumption that the passes of technol wours be insuperiorized antoquit to lot file provide of province sours to image conjugation of the lot file provide of province that a long conjugation of the lot file provide descript the or long conjugation although of being ruling provide absent of public and being ruling provide absent of public and being provide demand, positing provide absent of public and being ruling constitutions and provide and demand on the county provide appeals of the organic contracts.

Fact Tips contract, between NORTH and MCEE clearly, contented at provium requering DESA review artist to arrown distributions. PATA appeared the First Cash's subspline hand they 18/30 should have completed an enconnectional parties of the biodestrap departs by their true in related the contract with NAMA. In January 2007, the Dalfornia Court of Appendix, 15° Appellate District, noted in least of MCSS and booker, recreating other contines for the sale of spring mater. The Specials Court meanes the first Oscilly decision made in March 2005 and ordered the Trial Court to exter a new soler stroping conserved Philippia Ethian's sregion patition and musbasing than pain that the democrat was not and used until the presidentelled tempers were completed, its writte's, the contract between MCSO and MWMA is consequent an tine comprision of the USSA weatyes-

Mpth. This is a parentheent about for Readile. The town of Michigael outs receive \$1000,0000 accountly for \$50 years, with he hope of on impresses, while the infrastructure made parenthing by Readile would physiologic.

for written or the contract bibliot will increase its partiests to MCDC over the larm of the contract. MRRHY Japonarts to RCSD start at appropriately \$100,000 per year and increase to approximately \$400,000 per year in from 16, 1999a is required to recruse to payments to MCSO based as the Desnet's charges in its rate structure for water. In addition, 80000 has arready used the Debrot abrook. \$200,000 in non-refundable contingents prometts and his rombursed PCSD for another approximately \$250,000 for skell time and legal has been not fell Mills obtain in the SWEAR STORES AT THE SHATE WAT UP, NAME AND ARC DAY THE Outlied water connection and sawer contestion flow which: will properly to over \$200,000.

Mustic's office of abundeer/sits is insuffing and unrealistic. The inflated figures . . . appear to hubble mangurary sumbrumon jobs and our of-area drysking John that do nothing for the boar economy. Most john that are created will not be follow eags. Pliceuphout the water building industry the average worker pate poid feet than a shift thereigns at Representing and has for fewer bemelits. As theirg preferences pleas to success and that the jude will be advertised throughout the above. Resettly action amplications position contradict their claims that the building sparetic would him amongto employment approximates to Mr. News

Waste and Protects Stand Cooperfunds laws provide terries or any other unuityee from any sort of preferential forms based on where an applicant from Qualified individuals who from it McCloud will be pronuraged to apply and, the are other combiletic, will be analysed for contampositions based on their country qualifications. The full time employment INCOMPANY OF THE PROPERTY CHEEKS SHOULD BE STATE AND AND ADDRESS. \$40 at full build out; we considere with NRMYs current Mr. one insperient at our other companies factories. For exemple, our feeling facility in Calmina, California, Sull' in (556), and which serves as a model for the proposed Pictional project to size and scape, original 224 Jeophi and 6 out yet on that buildings. In facility, our Guarda Spring Water Sections sregima sirror 201 people. Throughout California, restlat employee near 1,000 people.

NEWA has made a commitment to the Danid and Solvyon County at this early stage to var its introduct wage for empeument at the proposed factory to be no less than \$15.05 per hour plus full servetts. Your starting wages will be determined by a wage survey conducted closer to the tone the plant is expected to open. This wage auriety will be conducted to fulfill BRESA's commitment to yaving wages in the object 50 percentile of comparable positions regionally.

Individuals with specify jub experience and other qualifications will start all higher Assaul.

in estimate, according to a report pregnant for the francois County Economic disselement County by the Contac for Economic Desetopment/Small Business Desetopment Contac Partnership at California State University, Chica, the facility will create an additional 249 restrict poly-formging the local job respect of the propert to meets 1985.

March 1

Manufol's line entire at that 100 published tracks will be freeeling to and from the plant every day over this track \$6. This activate represents \$60 trips over this track \$6 tracky day, of day and layer.

Fact.

Fruit traffic is posturated in the food! ETE/AL using the accepted CA, IRANI, morbiting and waterly accepted approaches. The profits instimates for the proposed project are not benefit or a 201-day period, but retire represent estimates for page, operation; [revently in the mol systems submetter]. The resets that require truth traffic would be much sporter from traffic would be much sporter for the sporter from the state.

and integrate related to truck topffic are being analysed through the ESQUINGER analyses and reviews our results being constanted. If highly impacts are found to be potentially agreement the County and blate and integrate antercoaling integration impactives an feeting. Marget report of infrastructure responsibility and on will be painty and maintaining a one-risk private assets result that diverts all truck matter, amount the same on that we so not discurb traffic point through lower.

Much

("The proposed SWING plant") is an large that every actioning building in Stational count for another the popular count. The plant will be four times bigger than Stational Country's other Switches and state Switches Switches and state Switches Sw

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The properties elipsont to the set not also are already need to in new existing misother property. The propessed paint will be chapter and quicker then any provided monachy than the misuped the site. As for size, the proposed Weller plant, will be approximately 200,000 oppose that proving over title to an eximple to 1,000,000 oppose that, misother or repriy

250 Acres. This self-not be the largest building in Northern California so-claimes. Or fact, according to the Tanama. Courts Assessor's Office, the War Plant Distriction corner. equationing year first Bluff, reverelle at 5, 100,560 without yours feet, is already bright than the proposed RCDOvd . Section when fully built out.

The Restly plant will require to hast unture and community resources that an have no neway is provide, and it will have some varying, unknown impacts or our anways ponds, mater, fire ascrine, made, stiffing, on: featill door not have a pond reportation when it comes to contributing streetly to net purcuitury needs beyond their apacific contraction abligations. These types of infrastructural problems and needs usually cost from bundreds of thousand by sufficient of declare to address.

April

The appropriate Leaft, INCRE, reported, SNEWA Strate, Soc. Dis. conf. ACAPARTHED CONTRACTOR AND AN ARROWSHED THE ARM THE THE PRCSO WAT FOR TANK IS PRCY WILL WITHOUT FAVOR AND PRIVATE IS provide service to the prognous NWSA busing facility.

by Michaul, Wellet has secured across to a private road than WHITE will pay to improve to county alumbrate so that shall traffic may be diserted from poing incough the loan of PACEAUA. This will perform runs and hydro-hazonic or the main streets of the constructs. Additionally, William will Surfer imprise components of PCSD's subtrictiphy system. so bet of the project representation.

The PROSOURIERA contract was imposed NOVER to pay for the righteness and upway of the infrastructure that serves the project. This provides thickly with a mechanism is marker MODER'S autorities and helps pay to lease obstrat anythoses amplesias. Additionally, NRMA's upgrates to the work. system will save the McClaud targetiers from hearing to perfor those officially disposationis, which would be receptably in the coming pages with an actional the feature promotion.

Mouth's uses depart mayor by lettinished appearance. This is exactly what the company was duting when it surfavoreneed the private financial records of private URBERTA.

What the Experior Court build exectured the covered believen Welfel, and MCSD, Conserved Michael Citizens. demanded that better one than attorneys from. The legal system plant the defendants some lettuck in source who has been painted for the legal feet of the attorneys surre-

During Reportions, frieflet was informed of the tric between Concerned Richard Citizens, Mr. Chesia Boregard Cortopy Contax and the RoCloud Bistershot Council. We weeked within the legal system to request subposites for Teaming recently of the MIRC and the MIRES. The judge decreal our requests when MWC and MSBEC absolute to our subposite respect. That was the end of the tope : there was to printed block.

## Economic Impact of Nestle Waters North America on the Siskiyou County Economy

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#### Bullet of CRD and the Report Author

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## Mount Shasta Herald

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# Mount Shasta Herald

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## Mount Shasta Herald

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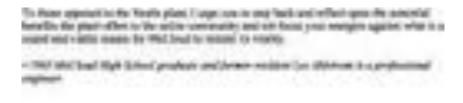
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Mr. KUCINICH. Thank you very much, Ms. Paul. I would like to begin by asking Mr. McFarland—and I may ask the same question of Ms. Swier-in McCloud, did Nestle hold any public hearings before you signed the contract with the municipality? And how many public meetings has Nestle-before the contract was signed with the municipality, and how many public meetings has Nestle held since the signing of the contract?

Mr. McFarland. There was one public meeting that the contract was discussed. And that was the same public meeting that the con-

tract was approved.

Mr. Kucinich. So since the signing of the contract-

Mr. McFarland. Since the signing of the contract, I believe that Nestle has held two or three public meetings in the community. And they have been—they have been designed to—they were public relations events.

Mr. Kucinich. What do you mean by that?

Mr. McFarland. They touted all the benefits of the project and didn't really discuss any of the potential negative impacts.

Mr. Kucinich. Did the general community have an opportunity to participate in designing the plant?

Mr. McFarland. None.

Mr. Kucinich. Where it was located?

Mr. McFarland. No.

Mr. Kucinich. What about in Michigan?

Ms. Swier. The same in Michigan.

Mr. Kucinich. If you could turn the-

Ms. SWIER. I turned it on. Mr. KUCINICH. Thank you.

Ms. Swier.

Ms. Swier. Yes. No, in Michigan either.

Mr. Kucinich. No to what? No participation in designing the plant, where it was located?

Ms. Swier. No.

Mr. Kucinich. What about, did Nestle hold any public meetings before the contract was signed with the municipality?

Ms. Swier. We are not a municipality.

Mr. Kucinich. With the area?

Ms. Swier. Pardon?

Mr. Kucinich. With your community. Was there any public—

were there any public meetings before the contract was signed?

Ms. Swier. The contract was signed with a private property owner.

Mr. Kucinich. And were there any public meetings before that? Ms. Swier. I knew of two public meetings before. No, not before, not before—I am sorry, not before we found out about Nestle coming into Mecosta.

Mr. KUCINICH. OK. And since the signing of the contract, were there meetings?

Ms. Swier. Yes, there have been meetings.

Mr. KUCINICH. And what was the nature of those meetings?

Ms. Swier. The nature of the meetings were Nestle would get up and speak to the audience of what a good neighbor they were—that it was going to be and that there would be no adverse resource impact.

Mr. KUCINICH. And were you there present to respond, or were there people from the community that responded, or was it pretty much accepted that what Nestle said was true?

Ms. Swier. No, there were people at the meetings, like myself,

that were able to get up and ask questions.

Mr. KUCINICH. Mr. McCann, in your opinion, what would be the effects upon your community of the proposed water bottling plant?

Mr. McCann. Well, clearly the major impact is the unknown factor of what will be the impact on everyone else in the area. You are talking 307,000 gallons of water a day. You are looking at wells that are—that are considerably less deep than what has been proposed. So the impact on those wells is the unknown. And those were the questions that were asked at the public hearings that the State had.

Mr. KUCINICH. Do you think it would be possible for the bottling plant to exist without causing the kind of consequences you are

talking about?

Mr. McCann. I don't believe so, no. I think that the situation is such that, without a thorough scientific review ahead of time, but here you have a company that owned the land and just decided this is where we are going to do it.

Mr. KUCINICH. To your knowledge, has there been any thorough

scientific review?

Mr. McCann. There has been some scientific review done by both the company and by one of the towns involved, and they aren't in agreement. The State becomes, I guess you would say, the mediator. And the final decision is the State's of whether or not to grant the permit.

Mr. Kucinich. Does the company show an interest, Mr. McCann,

in being responsive to the community's concerns?

Mr. McCann. No. Unfortunately, the company took the attitude from day one that it was their land; they could do what they want. They—beginning back in 2000, they actually went in and disturbed some of the wetlands without a permit. This is the way it started. And this is what had the people concerned. And their attitude throughout the whole process has been, "You people shouldn't be out here bothering us. You shouldn't be complaining. We are going to provide jobs. We are going to provide—increase the tax base." So they had a very negative view of public input.

Mr. KUCINICH. Do you feel existing laws and regulations are sufficient to prevent those consequences even if the company is not

willing to prevent them on their own?

Mr. McCann. Well, as I said in my opening statement, I thought what we had done in 1998 to protect the environment seemed on the surface to work good, but in actual operation, no, I would say now that the State and Federal laws failed.

Mr. KUCINICH. In your written testimony you criticize Governor Lynch for his role in the permitting process. What should he have

done differently in your opinion?

Mr. McCann. I wouldn't say I was being necessarily critical. I just think that the reality is the Governor could have probably come in sooner and maybe worked with EPA and the Army Corps of Engineers instead of waiting until 2005. I think that what he has tried to do was thwarted by what had been done by his prede-

cessor, who made sure that DES was, quoting as he said in one of his speeches, "more business-friendly." I think that the Governor had some difficulties that were not his fault, but he also had a situation where I think he could have acted sooner, but he didn't.

Mr. KUCINICH. You criticize the role of the Army Corps of Engi-

neers. What should they have done differently?

Mr. McCann. As I understand the request from the Governor to them, they were supposed to evaluate the information provided by the applicant, USA Springs, the State and the scientific data that I mentioned earlier that was provided by the Town of Nottingham and the consultant Nottingham had. In reviewing what they issued in August 2006, they basically took the information provided by the applicant and accepted it as a fact.

Mr. KUCINICH. I am going to return to the questioning in a moment. The Chair is going to recognize the distinguished Member from California, Congresswoman Diane Watson, for a round of

Congresswoman.

Ms. Watson. I want to thank you, Mr. Chairman, for holding what I feel is a very important meeting, and very sensitive and relevant to our climatic conditions and what is happening today. The consumption of water is increasing at a rapid rate. And in the year 2002, Americans consumed 6,018 million gallons of bottled water. And I think I did most of that consumption myself. The United States, as well as the global population, is putting the strain on existing water supplies. And that is putting a strain on our existing

supplies of groundwater and surface water.

And the bottling industry is currently seeking to extract more water from rural areas to meet this growing demand. And I understand some of the water companies are taking the water in their city and bottling it and selling it in stores. And so there is a double profit there. But I am very, very concerned in the way the process is being done, not only our drinking water but our purification of water. And you might be aware that along the southern coast of California, we have a great deal of mercury in our water. And it has contaminated the sea life and particularly gotten into our fish life, particularly tuna, and we warn our citizens to not eat tuna off the western coast of California.

So I understand that water that is extracted from ancient sources, and once that water has been depleted, it is gone forever. I missed the first part of the hearing, Mr. Chairman, but I don't know if the witnesses are from areas where there are ancient sources of water. And as you were speaking, I thought maybe you could tell us what we need to do to protect those sources and particularly now when we are in drought in California. And we have our water up in the northern part of our State. And we had talked at one time about a peripheral canal with the water from the north in the deltas could come down to southern California into our desert. But what can we do, and should we regulate the way groundwater is extracted and how much could be extracted? And should these fields be left alone for a while so groundwater could accumulate? That would take millions of years in California because we don't get much rain truly. But let me just start and go

down the panel. What would you have us do here in Washington to protect that groundwater from ancient sources?

Let me start with Mr. McFarland.

Mr. McFarland. Thank you very much. As I said in my opening testimony—

Ms. WATSON. That I missed.

Mr. McFarland. Yeah, one thing that I think that is really critical, and you talk about ancient groundwater, and one thing, I am from Mount Shasta in far northern California, and I requested that this committee, the subcommittee, encourage U.S. Geological Survey scientific inquiry to monitor and characterize Mount Shasta's ground and surface water resources. This is especially important in the face of potential climate change impacts on California's water supply. So what it gets down to is good science. And I think that we don't really know whether the water that Nestle is proposing to bottle in McCloud is ancient water, or if it is water from last year, or if it is water from 10 years ago. And I think it really points to the need for really good U.S. Geological Survey studies of these aquifers before we start drawing them down.

Ms. Watson. Thank you.

Ms. WATSON. Thank you. Mr. McFarland. Thank you.

Ms. Watson. Ms. Swier.

Ms. SWIER. I agree with Mr. McFarland on his proposals also. Also, I think that there needs to be a protection of Federal and State wetland laws from water extraction and diversion for export. And all water bottlers must meet standards to be set by the courts and the State law, including the no likely pollution impairment or destruction standard of Michigan's well-respected Michigan Environmental Protection Act, and an amendment to the Federal Water Resource Development Act to provide interested citizens with the right to enforce by citizen suits.

Ms. Watson. Thank you. Ms. Swier. Thank you. Ms. Watson. Mr. McCann.

Mr. McCann. I would agree with what has been said earlier, and I think that the important thing is the Federal Government's role should be to help bring, through the geological information that has been talked about, the facts to the situation when we have developments proposed like was in New Hampshire or what has happened in Michigan or California. I found from my own experience that we don't know the science of the aquifers. And a consultant for a company can come in and say, "Oh, there is tons of water here; we don't need to worry about the impact," and there is no scientific backing for that. And I think the Federal Government's role would be to help provide that data so that both parties could sit down and look at what an aquifer—what the impact may really be. And so I would support what has been said by the two previous speakers.

Ms. Watson. Should that be the responsibility of EPA?

Mr. McCann. I would think EPA or the Department of Interior or both. I mean, the Department of Interior has some of the records because they have designated, like I mentioned in my testimony earlier, one of the rivers that could be impacted in the New Hampshire case, the Lamprey River, is a wild and scenic river. It is so

designated by the Department of Interior. So I would think that a combination of the Department of Interior and the EPA would probably have the best data.

Ms. WATSON. Thank you.

Ms. Paul.

Ms. PAUL. I first want to clarify that we don't use any ancient waters that are not replenishable. One hundred percent of our water use is from replenishable sources.

As far as the Federal role, I think we support the Linder bill, which would say that we need a commission to look at water needs for the next 50 years and what information can be provided, for example, from the USGS to inform the decisions at the State level.

Ms. Watson. I kind of like that idea, Mr. Chairman. Maybe we are looking at a different organization to develop standards, and let States—and we have Cal. EPA in California. Water is our big issue. And I think, State by State, we ought to require them to have their own standards, their own organization that deals with water, and plan for the next hundred years or so. Thank you so much, panel. I appreciate your input.

Mr. Kucinich. I thank the gentle lady for her questions.

To Ms. Paul, in your testimony, you represent yourself as a trustworthy steward of the environment. Absent a court order or other legal requirement, if local people in a community bring to your attention significant adverse environmental impacts from your pumping operations, such as low stream flows, would your company be willing to reduce or to stop pumping?

Ms. Paul. We base all of our pumping decisions on the science that says what is a sustainable use. So if the science was showing

it was not a sustainable use, yes, we would cut back.

Mr. KUCINICH. OK. Well, if that is the case, and I take it as you say it is what you believe, this subcommittee has been informed that your company continued to pump from its Stanwood plant in Michigan in the summer months this year even when presented with photographic evidence that clearly show the flow levels in the stream-fed Dead Stream were dangerously low. We have a photo that was supplied to us by attorneys for MCWC that appears to show the Dead Stream living up to its name. Now, I would like you to look at the picture there, which represents the low flow levels of the Dead Stream. We have also been informed that while Nestle's pumping may have been technically in compliance with a court order, this court order was only in place pending remand to a trial court after MCWC won its court case in order to determine safe pumping levels. Now, did Nestle see these photos? Have you ever seen these photos?

Ms. PAUL. I have never seen that photo.

Mr. Kucinich. Have you ever seen any photos similar to that? Have you seen any photos of the Dead Stream?

Ms. Paul. Let me say, I think the question that is being raised here is I think those might be the mud flats? Are those the mud flats? Well, I guess I can't—so this is what I know.

Mr. KUCINICH. This represents a picture taken of the Dead Stream.

Ms. PAUL. There are low flows and high flows of water bodies naturally occurring. And just because there is a low flowMr. KUCINICH. So you are maintaining that this was a naturally

occurring low flow. Is that your position?

Ms. PAUL. My position is that there is no harm to the environment, that there are naturally higher and lower flows, that this is affected by dams built by beavers, by many things; that the mud flats—when they show are a feature that has resulted from a dredging, a historic dredging, and is the natural sediment coming back to replace the dredged amount, the dredged soils.

Mr. Kucinich. So again——

Ms. PAUL. So no harmful impact from our use. I do agree with that statement.

Mr. KUCINICH. And that is based on science. Is that correct?

Ms. Paul. Yes. Yes, it is.

Mr. KUCINICH. And so it is either—now, that position that you have offered, is that the result of scientific studies that you have had done, or is it only your study, or is it a consensus of a number of scientific studies that have been done? And do you have those studies to make them available to the committee?

Ms. PAUL. We do have studies, and we would be happy to make them available.

Mr. KUCINICH. But is it one study that you have done or are there other studies? Are there studies that are independent of your studies?

Ms. PAUL. I know of no independent studies, but I am happy to share our studies.

Mr. KUCINICH. Do you have any kind of knowledge of any scientific opinion that disagrees with your characterization?

Ms. PAUL. What I can say to that is there were in the original lower court some models created of what would be, could be, the impact of our use. That would be information that is different than what we have seen when we have actually used the water source.

Mr. KUCINICH. Now, Ms. Paul, it is my understanding that the source of the groundwater in McCloud is partly from a glacier. How is Nestle going to address the restriction on water supply over the next hundred years with climate change, which potentially will change the amount of water flows from your source given that your source is glacier-fed?

Ms. Paul. We have a permitted amount that we are planning to use. If there were any harm of that use, we would cut back. The amount—I feel compelled to give a little history here, but maybe I shouldn't. McCloud came to us asking for our interest in coming to the area to build a bottling water plant. The reason being, it was a town, a lumber town built that was in decline. And today, in the school built for 250, there are eight students. It is my understanding that there is not—they are not able to afford an ambulance driver in the day. It is a community that is looking for opportunity, for more jobs. They are looking for a light industry. They had a water use of the lumber mill prior that they wanted to allow that water to be put to good use. And the contract to which you referred earlier, there were four meetings, public meetings on that contract.

earlier, there were four meetings, public meetings on that contract. Mr. Kucinich. Has Nestle ever had any meetings with the Garrison Place Real Estate Investment Trust and/or Francesco Rotondo, trustee, doing business as USA Springs, Inc.?

Ms. Paul. No, not to my knowledge.

Mr. KUCINICH. Do you know if there was any contact that any of those entities have had with Nestle?

Ms. Paul. Not to my knowledge.

Mr. KUCINICH. Do you know if Nestle either offered or received a request to engage in a business transaction with any of those entities—

Ms. PAUL. Not to my knowledge.

Mr. KUCINICH [continuing]. Relative to the Barrington-Nottingham——

Ms. PAUL. I don't believe we have any connection, any dialog.

Mr. KUCINICH. Has Nestle done any site characterization of that area at any time or engaged in any discussions with any principal or representative relative to the siting of a water bottling plant or business transactions subsequent to that in New Hampshire?

Ms. PAUL. Anywhere in New Hampshire?

Mr. KUCINICH. In that area, at Nottingham and Barrington.

Ms. PAUL. Not to my knowledge.

Mr. KUCINICH. Any other place in New Hampshire?

Ms. PAUL. We look for spring sites in many States, and we have likely looked in New Hampshire.

Mr. KUCINICH. But you don't know; you have never heard of Mr. Francesco Rotondo?

Ms. PAUL. No, I have had no contact with him.

Mr. KUCINICH. Or USA Springs, Inc.?

Ms. PAUL. I have heard of them. I don't know them.

Mr. KUCINICH. Has it been Nestle's practice over the period of time, given the large share that you have in the bottled water market, to acquire bottling companies or bottling interests or to lease or to purchase any assets that relate to water bottling and the acquisition of the water that the bottling plants use?

Ms. PAUL. Yes, we sometimes do buy those rights or the business

from others, yes.

Mr. KUCINICH. How many, in how many instances have you done

that? Is it rare, or is that the way your business grows?

Ms. PAUL. I would say it is neither rare nor how the business grows, but it is a way; it is one of many ways. If you would like me to find out the details of that, I would be happy to offer it in written testimony.

Mr. KUCINICH. Yes, I would also like you to provide this committee, since you expressed that you didn't know, any kinds of documents that you have relating directly or indirectly to the Nottingham-Barringtonsite that relates to the Garrison Place Real Estate Investment Trust, Francesco Rotondo, USA Springs, any discussions, memoranda, e-mails, letters that relate to contact relative to that site or to the principals who are involved in that site. If you would do that, this committee would appreciate it.

Ms. PAUL. We will do that.

Mr. KUCINICH. Thank you very much. I want to—my time has expired I have been informed. And the gentle lady from California is recognized.

Ms. Watson. I would like to give you my time, Mr. Chairman, so you can continue your line of questioning.

Mr. Kucinich. I want to thank the gentle lady.

I want to go back to Mr. McCann. Mr. McCann, in your testimony you alleged specific failings in the enforcement of the New Hampshire and the Federal laws with respect to the siting of a water bottling plant in your community. To what do you attribute these failings? Are the laws adequate, or do they clearly prescribe the environmental safeguards that must be followed? And if it is a question of inadequate enforcement, to what do you attribute this

laxity?

Mr. McCann. I think, as I said earlier, it is the law as written perhaps can provide some public protection. The implementation needs to be improved. The Federal role was, to put it mildly, I think very vague to people in the first year or two of this project. The environmental—Department of Environmental Services' role was to be fair. I think they were overwhelmed with the fact that this company wanted to take this water out and didn't appear to have all the scientific data that DES had looked for and that people like myself were asking for. So I think that it was, as I mentioned in my earlier testimony, this was the first test of our State law. I think the report card is still mixed. It is probably in the vicinity of C-minus. And most of that might be as a result of poor administration by the agencies involved, not necessarily poor writing of the law. But I don't deny that there is perhaps room for improvement in correcting what we have seen in the first 10 years of that law.

Mr. KUCINICH. I had asked Ms. Paul, whose presence we are grateful for, a series of questions. Is there any question that I should have asked that I didn't ask relative to the issues that re-

late to the community that you are here on behalf of?

Mr. McCann. As far as the connection with the-

Mr. Kucinich. I am just saying, are there any questions that I did not ask that you think should have been asked?

Mr. McCann. I can't think of any, Mr. Chairman. I think you did

a thorough job.

Mr. KUCINICH. OK. Let us go down the line here, starting with Mr. McFarland. Water bottlers often choose relatively remote or rural areas for bottling or pumping sites, and will often seek access to watersources that are located in protected natural areas, areas that are protected either because of their intrinsic natural value or because of their relative ecological fragility. How do you think this committee should weigh the economic value of the industry of the water that is extracted and bottled versus the ecological value of protecting the delicate balance of these areas?

Mr. McFarland. I think they should use good economic analysis and look at the true costs versus benefits of all of the resources in the area. And you know, I think that the subcommittee understands that there is economic value to the water for downstream uses. Not only is it of economic value to—in terms of commerce, direct commerce. So I think that the science of economics today looks at the other value of those resources aside from just the pure, you

know, dollar value of the resource put into a bottle.

Mr. KUCINICH. Thank you.

Ms. Swier.

Ms. SWIER. Yes. I am from Michigan, which you know, and we are living—I live in an economically depressed area. And I do feel that we have to look at the economic picture. And when Nestle came into our area, that was one of the major draws that Nestle had said of coming into Mecosta County. But we also, as residents of my area, this is our livelihood. I am surrounded by lakes. I happen to live on a lake myself. And this is one of—the water is our heritage. And I feel that it needs to take into effect what the effect is going to be in the area. And with more scientific data available, MCWC has hired a hydrologist. And he is continually looking at what the harm is to our area, to our natural resources, which a good one was, you know, the one that you had there. And I live just 5 miles from the Dead Stream.

Mr. Kucinich. Could that have been—that low water level, could

that have been caused by beavers?

Ms. SWIER. There had been beavers there on and off for years. The people who live on the Dead Stream have never—

Mr. Kucinich. Is that a yes or a no? I mean, could that have been caused by beavers?

Ms. Swier. Yes. Yes, it can be caused by beavers.

Mr. KUCINICH. And in this case, do you think that it was caused by beavers?

Ms. SWIER. I can't answer that. I do not know.

Mr. KUCINICH. OK. Thank you.

Mr. McCann, do you want to comment as to the fact that these water bottlers are choosing relatively remote and rural areas for bottling or pumping sites and often seek access to water sources that are located in protected natural areas? And how do you think this committee should weigh the economic value of the industry versus the ecological value of protecting the delicate balance in these areas and also the access to water for civilian populations?

Mr. McCann. I think that, clearly in the past, in the instance especially in Barrington and Nottingham, but I read about, you know, other companies, obviously the economic value of a proposed development is part of the process to quote-unquote sell it to the community. And if a community has had hard economic times, it

is clearly one mechanism they can use to try to come in.

I think the Federal legislation and the ideas that have been put forward by Mr. McFarland make sense. I think we need to have a level playing field, which means we try to, as I said earlier, balance the scientific data, but we also work to try to have equal opportunity for development but also at the same time recognizing, as you said, that we have a very delicate balance. And if there is a reason for the government to become more involved, I think it is to protect the environment and to ensure that a well-regulated industry is working. But it shouldn't be at the deprivation of the environment or the people who live in the community.

Mr. KUCINICH. Out of fairness, Ms. Paul, do you want to re-

spond?

Ms. Paul. Yes. Thank you. Everything is made with water. Everything. In fact, our bottle—the biggest user of water is the plastic bottle—which is the lightest weight plastic bottle on the market, as I mentioned; it is less than a half an ounce. So think of anything made of plastic that is greater than half an ounce; it is made with more water. We are a very visible user of water, but we are not a very large user of water on the global scale or on the U.S. scale or on our region's scale.

On a particular site, we do two things. We pick sites where our use can be sustainable, and then we monitor that use.

Mr. Kucinich. What about the environmental effects? Do you consider those at all times, the ecological effects of what you do?

Ms. PAUL. Yes, we do. I think we are a model water user.

Mr. KUCINICH. Thank you very much.

I want to thank the members of the panel for responding.

I am going to recognize Mr. Issa. And I want to say that our clock for some reason always stays on green.

Mr. ISSA. Which is looking better all the time right now.

Mr. KUCINICH. Which is good. OK. Mr. Issa. Thank you, Mr. Chairman.

A lot of the questions that needed to be asked, you asked. And so I will try to do followups mostly.

Ms. Paul, do you produce, does Nestle produce beer?

Ms. Paul. No.

Mr. Issa. Do you produce soft drinks?

Ms. Paul. No. Well, define soft drinks. We do have-

Mr. Issa. Pepsi, Coca-Cola type products?

Ms. Paul. No.

Mr. Issa. OK. Now are these figures in your estimation accurate, that bottled water consumes about 1.3 gallons per gallon of water delivered, while soft drinks consume about 1.7 gallons per gallon delivered, and beer consumes about 2.1 gallons for every gallon delivered? Do those figures ring a bell to you from your history?

Ms. PAUL. My history would say that our company uses 1.3; that carbonated soft drinks, for just processing, uses 3, not counting the water to process the ingredients or the water to grow the ingredients; and beer is more like 9 gallons, not counting the growing and the processing of the ingredients.

Mr. Issa. Right. Because they have to boil the hops and all

Ms. Paul. It is distillation.

Mr. ISSA. I apologize for the low figures. I chose the lowest of all of them I could get just because I love Anheuser-Busch, and I am a beer drinker from time to time. So I didn't want to do anything adverse.

Mr. KUCINICH. Let the record stipulate.

Mr. Issa. But as a Californian, I love my wine, too, let us not kid that. But I am a Californian. Let me understand this. If you are a typical crop producer, for every gallon of water you pump out—let me rephrase that—for every 10 gallons you pump out, 8 gallons are going to evaporate. Basically, nothing is going to deplete the groundwater table as much as, for example, our rice production in northern California. By definition, we are spraying water out and asking it to please evaporate in a 100-degree Sacramento day. Is there anyone—Mr. McFarland, you know, you have seen that. That is essentially how we grow rice is you spread water over it and ask it to please evaporate.
Mr. McFarland. Absolutely.

Mr. Issa. So although today we are talking about the bottled water industry, and clearly you concentrate your taking from one area, wherever your plant is, we have in California and around the country, but particularly California where we don't have the Great Lakes, which my understanding the Great Lakes are basically a river with some big puddles in them, that every bit of water—if we took every bit of water out of the Great Lakes today, in a matter of 2 years, they would essentially refill. I know there is a gentleman shaking his head no, but I am a Clevelander. I remember when the Great Lakes were dead, and it took less than a decade for them to come back to life because they flow completely through every couple of years. We don't have that in California.

So, Mr. McFarland, excluding the fact that I clearly understand how you are personally affected and your water table is affected, don't we have a national problem of groundwater, ground table, aquifer management? Wouldn't you say that you are picking out this particular point because it is in your backyard, but you would agree that we have throughout California and the Nation a ques-

tion of, how are we managing groundwater?

Mr. McFarland. Yes.

Mr. Issa. And I think although you are not in agriculture, you shook your head yes like most of us as Californians, we understand that agriculture, clearly needed, is the biggest consumer, because of the fact that we spill it on the ground, of water that doesn't get back into the water table.

Mr. McFarland. Absolutely. And I believe that if Nestle was paying as much in McCloud as the rice farmers pay for their water in Colusa, that there would be less opposition to it in McCloud.

Mr. Issa. Well, and I am a businessman, so I understand a problem is something money can't solve. It does sound like money could solve this one.

Mr. McFarland. It could solve part of the problem here. Part of the big problem here is that this is an outrageously egregious contract. It is very unfair to the community of McCloud.

Mr. Issa. The price.

Mr. McFarland. The price.

Mr. Issa. The price they are paying for the water.

Mr. McFarland. They are stealing it.

Mr. Issa. As a southern Californian, remember, I opened up with all northern Californians think southern California steals. But I get your point that it is a question of how much money is being spent for the resource that is being taken from your region. I am a Federalist. I believe the Federal Government only has the right to do what it implicitly has the right to do. Other than ensuring Federal access to navigable waterways, the national fisheries and the Clean Water Act, other than those, do any of you know a legitimate existing Federal hook that we can take? I mean, and those three are big. We do have a right to make sure that Nestle or anyone else is not taking water in a way that pollutes somebody else's water. We have to make sure that the 0.3 gallons that don't go into the bottle don't end up being backflushed in some way. And we all know some of the history of that. But are there any other hooks that we should really be aware of that exist today beyond—because we primarily make sure that agencies are doing their job. That is one of the biggest things we do on this committee. So are those three the big three that we should be looking at as we are going through this problem not just of a particular bottling operation or two, but groundwater and safe drinking water?

Mr. McFarland. Boy, that is a question that is out of my league. Mr. Issa. But those thing three ring a bill, and you are comfortable—

Mr. McFarland. Yeah, the navigable waterways thing, that comes up as definitely potentially applicable here.

Mr. ISSA. We can certainly make sure the Corps of Engineers ensured that not so much water was taken from any source as to ad-

versely affect navigable waterways.

Any of the rest of you have anything I've missed? Because when this hearing is over and any subsequent hearings, that's what we have to look at, is can we make agencies do their jobs better. And something the chairman and I try to do whenever possible is make the agencies do their jobs without legislation.

Ms. Paul, you know, you're obviously the subject of a lot of this because of your company's operations. You mentioned your stewardship of the environment and how you make sure—or you said that what you take is sustainable. In the case of the Mount Shasta operation, could you go through the sustainability, in your company's opinion, the environmental impact and how you reached the decision for how much you can, individually and with the other companies already operating there, collectively take out of the aquifer or the groundwater?

Ms. PAUL. Yes. We're still in the middle of that regulatory process. We signed the contract, which we actually pay more for the water than any other users. And it is reliant on meeting the terms of CEQA. CEQA is involved in the environmental impact state-

ment.

We have done the science to look at what our impact would be; and, in this case, it is a unique situation in the sense that we could take the amount of water that we'd use at peak out of the system to see the impact. You can't usually do that. You usually have to model it. But because of the way the springs come together and then we could divert one of the springs and just have the amount left.—

Mr. ISSA. You could test the theory.

Ms. PAUL. We could test the theory. That said, we have heard from the town and from environmental groups that they want more information. And we are in a process—we're sitting down with environmental groups, concerned citizens and a third-party hydrologist and biologists from UC Davis at the recommendation of environmental groups; and we're going through what more science would they be comfortable with, that we'd be comfortable with to get more information.

Mr. Issa. Excellent.

Thank you, Mr. Chairman. I think this takes us a long way with this panel. I appreciate your calling this hearing.

Mr. KUCINICH. I thank the gentleman from California for his participation as always. I know that you have a markup and you're

trying to do double duty here. I appreciate you being here.

The gentlelady from California has informed me she doesn't have any other questions of this panel. Nor do I. I want to thank each member of the panel for your participation. This committee will continue to look at the issues that have arisen as a result of your testimony, and we reserve the right to submit additional questions in writing.

And I appreciate Ms. Paul's presence here; and we would ask that you'd respond, you know, to the committee's inquiries as you indicated you would.

So I'm going to dismiss the first panel, and we're going to call the second panel to come up. Thank you again.

Will the second panel please come forward.

I want to thank all of the members of the first panel again. We're going to try to get this second panel started in an expeditious manner, and I would ask that the witnesses be seated.

I'm going to do some introductions.

We have here Ms. Wenonah Hauter, who is the executive director of Food & Water Watch, an organization dedicated to educating policymakers and the public about food safety, agriculture, environmental issues and water rights.

From 1997 to 2005, Ms. Hauter served as director of Public Citizens Energy and Environmental Program, which focused on water, food and energy policy. Before that, she was environmental policy director for Citizen Action and worked on sustainable energy cam-

paigns for the Union of Concerned Scientists.

Next, Mr. David Hyndman. Mr. Hyndman is professor of geological sciences at Michigan State University where he studies the physical and chemical processes that influence groundwater flow. Professor Hyndman's research also examines how land use changes in regional watersheds affect ecological health. For the past 10 years, Professor Hyndman has been associate editor of the journal Groundwater, was association editor of the journal Water Resources Research for 5 years and is published widely on hydrological issues.

Professor Noah Hall is a professor at Wayne State University Law School in Detroit, MI, where he teaches environmental law and water law. Before joining the Wayne State faculty, Professor Hall taught at the University of Michigan Law School and was an attorney with the National Wildlife Federation where he managed the Great Lakes Water Resources Program. Professor Hall also worked in private practice in Minnesota for several years and clerked for the Honorable Kathleen A. Blatz, Chief Justice of the

Minnesota Supreme Court.

Mr. Joseph Doss is president and CEO of the International Bottled Water Association in Alexandria, VA. The IBWA was founded in 1958 and is the trade association representing the bottled water industry both internationally and domestically. Mr. Doss has extensive experience in association management, food and drug matters, governmental affairs, public relations and legal issues. Before joining the IBWA, Mr. Doss was the director of Public Affairs At the Consumer Healthcare Products Association from 1997 to 1999.

Mr. James Wilfong is an entrepreneur, educator and public servant. He is executive director of H20 for ME, a ground water advocacy group. He also served as a member of the Maine Legislature and as an assistant administrator for the Office of International Trade at the Small Business Association during the Clinton administration. Mr. Wilfong is co-founder of several enterprises, including Atomic Ski USA and Innovative Applied Sciences, a software devel-

opment company of which he is the chairman.

I want to thank the members of the panel for being here. It is the policy of the Committee on Oversight and Government Reform to swear in all the witnesses before they testify. I'd ask each of you to rise—all of you to rise and raise your right hands.

[Witnesses sworn.]

Mr. KUCINICH. Thank you very much. Let the record reflect that the witnesses have answered in the affirmative.

As with the first panel, I ask that the witnesses give an oral summary of his or her testimony and to keep this summary under 5 minutes in duration. Bear in mind the complete written statement will be included in the hearing record.

I'd like to begin with Ms. Hauter.

Thank you. You may proceed.

STATEMENTS OF WENONAH HAUTER, EXECUTIVE DIRECTOR, FOOD & WATER WATCH; DAVID W. HYNDMAN, DEPARTMENT OF GEOLOGICAL SCIENCES, MICHIGAN STATE UNIVERSITY; NOAH D. HALL, WAYNE STATE UNIVERSITY LAW SCHOOL; JOSEPH K. DOSS, PRESIDENT AND CEO, INTERNATIONAL BOTTLED WATER ASSOCIATION; AND JAMES WILFONG, EXECUTIVE DIRECTOR, H20 FOR ME

### STATEMENT OF WENONAH HAUTER

Ms. HAUTER. Good afternoon, Chairman Kucinich and Congresswoman Watson. Thank you for the opportunity to testify today.

My organization, Food & Water Watch, is very concerned about the commodification of water, which is a resource owned by no one and needed by everyone. In setting the context for the discussion of the bottled water industry's mining in rural communities, it is important to acknowledge both the industry's explosive growth over the last 20 years and its profit—that its profitability is based on selling the myth that bottled water is some how safer and better than tap water.

The truth is that bottled water is generally no cleaner, no safer or healthier than tap water and that the Federal Government requires far more rigorous and frequent testing and monitoring of municipal drinking water. Almost half of all bottled water is nothing more than reprocessed tap water. The FDA only requires that companies test four empty bottles once every 3 months for bacterial contamination, and they must test a sample of water after filtration and before bottling for bacteria once a week.

In contrast, the EPA requires that public water systems serving more than one million residents test water 300 times per month and utilities serving more than 3 million people must collect and test 480 samples monthly.

Now I raise this issue because the lax regulation of the bottled water industry is one of the things that helps make it profitable, along with the little that they pay to access water.

A former chairman of Perrier was quoted as saying, "it struck me that all you had to do is take the water out of the ground and then sell it for more than the price of wine, milk or, for that matter, oil." And it is true. Bottled water costs more than gasoline or the companies charge about \$1.50 for a 20-ounce bottle of water which penciled out to more than \$9 a gallon. That profit must be measured against the mere cents that it costs them to bottle the water.

But those few cents are only the company's internal costs, the ones they have to pay. The mining of water does not include the external economic, social and environmental costs to rural communities and society in general, such as the loss of groundwater, toxic emissions from plastic production and disposal, air pollution and damage to roads and other local infrastructure from transporting

the products.

For instance, plastic bottle production in the United States annually requires more than 1.5 million barrels of oil, enough to fuel 100,000 cars. Worldwide bottling of water uses about 2.7 million tons of plastic. And after the production of billions of plastic bottles and the national and international travel of bottled water, billions of those empty bottles remain. Eighty-six percent of empty plastic water bottles in the U.S. land in the garbage instead of being recycled.

Besides the cost to the environment of the plastic bottles, water mining could have long-lasting effects on the rural communities where it is mined. When the flows and levels of a region's springs, wetlands, lakes, streams and rivers are materially altered because of the extraction for bottling, the entire local and even regional environment suffers; and this extends to the activities that depend on water: agriculture, the individuals in the community, businesses, tourism and recreation.

And groundwater is a fragile resource. Our Nation's groundwater reserve is not a single vast pool of underground water but is contained within a variety of aquifer systems that cross political lines at county, State and international boundaries.

Groundwater management decisions in the United States are made at local level by a State municipality or special district formed for groundwater management. The monitoring of groundwater reserves is uneven around the country and often the amount of water available in an aquifer is unknown because of lack of data collection and the analysis that is needed to support informed deci-

sionmaking about groundwater.

Some communities across the country developed water management plans that take into account such issues as population and climate change, including drought. The people and businesses living and operating there have to live within the rules set forth in these plans, but often bottling companies get a nearly free pass, even though they're permanently removing water from a community's aquifer. Indeed, in McLeod, CA, which we discussed earlier, they plan to extract about 500 million gallons of water annually; and it appears that the contract would give the company preference over the town's ratepayers.

What is more, the local water district bears all the responsibility for the well-being of the springs and the water infrastructure. The ongoing extraction of water from cities and rural areas to be bot-

tled and sold-

Mr. KUCINICH. I'm going to ask the gentlelady to wrap it up because your time has expired, and I just want to try to keep to the 5-minute rule. Thank you.

Ms. Hauter. So our recommendation is that the Federal Government should, of course, strengthen bottled water quality regulations. But, just as importantly, we believe that there must be some kind of regulation or standard at State and local levels that addresses how much water bottling companies can extract from State. Federal funding should be provided to collect adequate data about the health and quantity of groundwater, and this data needs to be proposely applyinged. properly analyzed.

Mr. Kucinich. Thank you. I want to thank you for your excellent

testimony.

[The prepared statement of Ms. Hauter follows:]

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Mr. KUCINICH. I just want every member of the panel to know that your statement, the entire statement, will be included in the record of the hearing. So, you know, I know, having been on the other side of a panel and testifying, that the tendency is to try to get in every word. That's where I learned how to talk fast. But you can just present a good, solid 5 minutes, and we'll include everything in the record, and I think during the Q&A we'll probably have an opportunity to cover it all.

So, with that, again I want to thank Ms. Hauter for her testi-

mony and proceed to Professor Hyndman.

### STATEMENT OF DAVID W. HYNDMAN

Mr. HYNDMAN. Thank you, Chairman Kucinich and members of the subcommittee, for inviting me to testify today.

Mr. KUCINICH. Could you move a little bit closer to the mic.

Mr. HYNDMAN. Certainly, Sir.

In addition to my research in groundwater hydrology and surface water hydrology that you mentioned, I've also been an expert witness in several cases involving groundwater; and those have included several that relate to the bottled water industry. And in all cases so far, I have been retained by those opposed to the bottled water industry. However, today I've been asked to come here on my own behalf and give general scientific opinions about the impact of the bottled water industry on surface water, groundwater and riparian areas. And in addition to that testimony, I'll briefly discuss some issues related to the Food and Drug Administration's definition of spring water, which I think relates to many of the issues where bottled water companies are placing their plants in the headwater of stream systems.

The issues that I see with the FDA definition is there is little to distinguish spring water from diffuse groundwater seepage into stream systems. In addition, if we look at what is happening in groundwater systems, an area that could be called a spring is really a focused area where water is coming out of the subsurface, whereas most groundwater is flowing in in a diffused sense along the surface water systems; And that is where I think some of the

confusion comes to play.

The FDA has a specific definition that says if the groundwater is not extracted directly from the orifice of the spring, then it can be tapped by a bore hole that is in connection with the same formation and that connection has to be shown in a hydrogeologically scientific fashion.

The issue with that specific clause leads bottle water plants to often be put in headwaters of streams. Because, in those areas, it is really easy to demonstrate that connection because there is very little flow coming into the system other than what is coming in via some localized areas. The problem with that is that these headwater systems are also environmentally sensitive, and they are areas where the consequences and impacts of pumping may be the largest.

If you separate these out into really groundwater and surface water issues and you look at what the previous panelists have already mentioned, most of the impacts that you heard were related to surface water and that is because that's where a lot of the environmental concern is.

You also heard a little bit about groundwater concerns. If there are people living in the vicinity of high capacity wells, the water table or the level of water in the subsurface is declined in the vicinity of that well, and that can extend over a large area. So there

are potential impacts to localized groundwater users.

I'll focus most of my testimony, however, on the surface water issues because that is where, again, the most environmental harm is. If you pump shallow groundwater effectively, there is a one-to-one relationship between how much is pumped and the reduction in stream flow in the nearby areas. So high capacity wells can, as a result of that, cause large percentage declines in the flow of surface water.

When you reduce surface water flow, by the nature of doing that you're also reducing the level of streams. If you reduce the level of streams, there is environmental consequences, especially if there are riparian wetlands right in the vicinity of that. Some of the concerns that have been expressed in cases I've been involved are reduced navigability, degraded aesthetic quality and impairment of the stream for aquatic organisms and fish. In addition, the pumping can alter the water temperature, which can also be a problem for the ecological systems.

Finally, some of the most sensitive systems are wetland and lake systems where if you lower the groundwater level below these, if they're connected to groundwater, the level of the wetlands will

also decline.

The seasonal effects are worse. If you look at pumping during the middle of the growing season, the declines will be more significant. They are even more significant if you're in a drought period. So all of these things are on top of the natural variability in a system. In terms of recommendations, I'd recommend additional funding

In terms of recommendations, I'd recommend additional funding in areas of hydrologic science. Several people have mentioned this already in terms of examining new mapping approaches and new approaches that characterize what the impacts are of not only bottled water pumping but any broad level of pumping and climate change and land use change.

Thank you for the opportunity to speak to you today.

Mr. KUCINICH. I thank the gentleman.

[The prepared statement of Mr. Hyndman follows:]

# On Devid W. Hymbrus Associate Professor, Wichigen State University BEFORE THE BURGORMITTEE ON DOMESTIC POLICY, COMMITTEE ON OVEREIGHT AND GOVERNMENT REPORM, UNITED STATES HOUSE OF REPRESENTATIVES

Description 10, 1987

# lateral artists

Thank you Charman Kuczeck, and meethers of the Subconsentain, for stroting and to worth today. My come is Development, and I set un associate professor is Michigan from University in Groundmann Hydrology. My main miss of summer is meetile manack are: I revoluting the impacts of sharger inclinate and land are on water quality and quantity, and 2) developing seven methods to characterist subsection properties that country the transmission and they of water and constraint subsection of security.

I have postalpated as an expert witness in arrand legal cours involving groundwater and section reason including arrand conserted with the impacts accounted with the better materialisety. I real cours involving this industry in this, I have been entained by interests approach to feetind mater. I am have trained on my own helpful, and are providing my arterials opinions, and those of my antivolving or any other legal and are providing my arterials.

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# Definition of Spring Youter

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# Common Locations for Spring Water Wells:

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# Crossdeater Sepects

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Additional traumb is worked to the hydrologic substance to addition these presents. Mr. Kucinich. Professor Hall.

### STATEMENT OF NOAH D. HALL

Mr. HALL. Thank you, Mr. Chairman and members of the committee.

I'm going to very briefly summarize the applicable State and Federal law that deals with the extraction and pumping of groundwater both for bottled water and for other water uses.

Water use and extraction, both groundwater and surface water, is primarily the domain of State law. The rules governing how much water you can pump, from what resource, how much impacts are allowed are typically addressed under State law.

State law comes at groundwater pumping from two directions. There is background common law principles that are intended to primarily address conflicts between water users of a shared water resource. The original rule that was used here was what was called a rule of capture. What this meant was basically if you could pump the water, it is yours. It would be no different from me turning to Mr. Doss on my left here, grabbing his water, drinking it and saying I got it and now it is mine. So, in effect, the rule of capture is really no rule at all.

That rule has not remained in almost any State. The one exception being Texas, which I'll come back to in a moment. But in almost every other State, the rule of capture, we've moved beyond that, and we've evolved toward a more correlative rights approach to share groundwater resources. What this means is that a landowner has the right to the reasonable use of the groundwater below his property unless that reasonable use interferes with the neighboring landowner's reasonable use of the same groundwater.

And when reasonable uses of shared waters are in conflict or interfere with each other, courts reconcile those conflicts using a variety of equitable principles, including opportunities for water conservation, sharing, reduction of need, reasonableness of use, economic values, social harms, environmental impacts, etc.

Most recently, we've seen this shared correlative rights approach to groundwater use extend to the types of conflicts that Professor Hyndman just mentioned where groundwater withdrawals impact surface waters and courts have begun applying the same principles about the same principles.

ciples: shared, reasonable use, correlative rights, equitable remedies to resolve groundwater and surface water conflicts.

The common law, however, is not perfect. It has some serious shortcomings. Primary among those, I believe, are, first of all, the cost of litigation, which several members of the first panel can attest to firsthand. Common law litigation tends to be very expensive and requires the use of numerous expert testimony.

Second, the common law does a very good job of protecting shared rights and groundwater, but it doesn't do such a great job of ensuring environmental protection of public resources from water pumping, and this is where State statutes have come in. Many—I'd say most, but not all, State have in place some type of regulatory statute scheme to ensure that water withdrawals don't have unreasonable harm on natural resources, aquatic life, fisheries, wetlands, etc. Some of these systems and programs work

quite well. Some of them don't. There is tremendous diversity both

in how strict the standards are, how well they are enforced and in the ability for citizens to avail themselves of remedies under the

Beyond State law, I want to briefly mention the Federal role in all of this. The Federal Government doesn't regulate water use, and for the Federal Government to take on regulation of water use would be an undertaking that would make regulation of carbon emissions seem modest in comparison.

But the Federal Government has been a driver of water use. The Food and Drug Administration [FDA], for over a decade through its source identity regulations have required that if water bottlers want to label their bottled water as spring water—and spring water seems to be the label that consumers prefer over any other then, as Dr. Hyndman said, it requires the water bottlers to go to groundwater that has an immediate and direct connection to a nat-

Inadvertently, this puts tremendous pressure on the water resources that are least able to withstand groundwater pumping pressures. Bottled water is not a large user of groundwater nationwide or on a macro scale. But when water bottlers, to comply with the FDA regulations, go into the headwaters of a relatively small spring system, even a modest size withdrawal, a few hundred thousand gallons per day, which is modest in this area, can have a sig-

nificant environmental impact.

So I'd offer two brief recommendations for the committee's consideration. The first is, I would echo the recommendations of several of the panelists before me that we give the USGS, U.S. Geological Survey, increased support and resources to conduct extensive groundwater mapping, water use data analysis, investigative studies. The USGS data is critically important to both State and private decisionmakers in this area.

Second, I would encourage this committee to exercise its oversight jurisdiction and powers to work collaboratively with the FDA and other stakeholders involved in this issue to reform and revise the FDA's bottled water identity rules to basically allow water bottlers to continue to identify their product in a way the consumers demand and deserve but doesn't put pressure on our most vulnerable springs.

Mr. KUCINICH. I thank the gentleman for his testimony, and I will note that you presented this committee with an extensive preparation. And I think the Members are grateful to you and to all of those who have presented this voluminous testimony.

[The prepared statement of Mr. Hall follows:]

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# 6. Exchange out Concern Artisting to Bushed Repr.

Stated water has come under inviscing scratter for its accommental impacts. The properties of control regarding total want on which and diverse. For property of fits end,co, stratement covers and operation is helped wastrac to objected tion from configurate, each of which is discussed to storm dead follow:

- 1. One'lly of healed water, especially in comparison a most lost say **STATE**
- 1. Pulsaria and mass meeting lives the neurolatering chapting, and Disproyal of placely make how his
- 3. This principles and communities on of water brough healing and selle of water
- 8. Suptim a super border, grandware and geting made extension or other twice users and deposition surrors rescuession

I published the for halospector's Kochy's Tourist on the forth cargoty of accountered counts - by impact of upor Series' grandward and gring water contaction on robot wash usern and Augustical regional resources - and than ap matters, factor of their impacts. District, it is important to consider their require to the coders of other accitomental contents; at left offer play a det is displate over builded water.

 Consetts riggerible; the species of bretted wask, expectable in properties in tracking at tag date:

While bottom water is after potentiald as being of higher quality that top 44ms, at least out promote assessment expension his drawly attacked the peropsion. The National Statements (National Council (NASAS)) researed a region or 1989, another "Stational Water Flow Street or Flow Vigor " In the seport, VISSE about the public day Sylp-

The facts from from more fear all largers along the writing more apply.

passing per Many Ward in Performance Study. It was study theory Chair of Company ton.

for friday, open per b.

<sup>&</sup>quot; for Egypty Represe, Sedence Speed, Berryon Wyork, From Street, or Francisco, 1988). materials of letter from a discrept materials and the feet and

may distuit compact that has been been been the appropriate matter by a bootly than it in assessedy any father regulated, pures, to softy than exist lap water." NADE: performed "respectationing of more than 1,000 belons of 100 belong of sector to decay exhaustion late (and) thank that more trained water motel was of good species, her more frequency applications and applica-

Not suspringly, the feelful mater industry dispates NECK's findings and interfacions. An address of the MICK report to the DEMANY Water Response Freedman concludes

Droughout all of their probate, NEOC thank and one impairs of commission for world nine a highman health course. Indeed, the apting wealth find only than towards follow follow boold managets were condition. Close imposter screets that the two treats chapped to the MEET Regard to recover code sold less alpedients, earn in that quite (but). May pretired Senate May could not by optioned in cohespect test or improof to Native constrols. The other two assessment work for a Rooms mended or raptive, and with mark Sector application, as no be professor or public facility. In fact, the best, found in the bestsyl name get below the IUF's blacks haved Facebox represent the public motor systems.

If should also be noted that MEX has authorposely described that many managed year applies also form assessment of Britishing year manipule." For persons of the arches, it is fair to council that concern recent repeting driking over quality. statlers from both horizo and lapt, and eminocornal groups such at MESC requil all tasks stronger equilibrils and main collectment to protect public health from all amking were source.

1. Consider regarding automous and waser treating from the manufacturing, drighting and disperse of plants, water facilities

If health's ware had no make in h. and component steply produced empty healths, the expressed input of the bottle salet industry would all be equilibrat. The polition and work resulting than the monthstoring, theyeng, and channel of physics. water harder-soften many people as emply weaterful. Mino woder faction are study from the yearst polycolophon, except dealers (PCTs, extent in decrease floor shade yill. The Yardin Roles bestute originally estimated that the assorbeings of water hotten day hashed Native concentration regarded reset than 1.5 welfare baseds of cell perceibs, and law springed the extension to 16 million between of our property.

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The property Space Stranger, Orders (1996), West Trave States (Saltends, Saltends, Visites 1997). Crisis (Mills, models) a high reasonable options thinking further investments

<sup>\*</sup> Last Pricy Salting Nove, or Wyone House, Scott acres (more on Decor-1986), position of THE THREE HARD WAS VIEW TON THE WAR THE

Wantfarturing is note the first one in an energy, because prount, of the thicking water in plants make holder. As most by the Early Probes holders, "Six assesses to lay mate, which is distributed brough an energy offshore Arbeitrachury, trappering bestud water king diseased introduct Marting Harriss specifies of South Salls. 15 There, wher driking the borded assets, the bottle is generally obvious use. With MCF photos was be incorded ped the hother water below; strongly excessingly recycling "i, MPs of plants water territor usual in the Colond Styles francein garbage or Otton

For environmental compare againing the transference, dringing, and drapinal of plants was bottom metroled for Cabel States Conference of Migram to receiff plant to marketing to study the excessional separt of hartful mass." The Continues of Navers Southflow eneal?

hidded water must based many writer from the season, tending in the who has 200 ground shall had be stoom to payed when pulletion was the attemption. ... plants, water bottom are not of the hope growing treatment marketing waters, and ... in the U.S. the grants facility produced for region region 1.1 mellion lapsels of nil per year. recognition presents electricity for 250,000 increasure that 100,000 upon the st 100

While the framed water believes their and name to dispose the countries requiring the polision and week impairs obtaing to the manufacturing, altering, and disposal of photo water froties, it may not for that in compan those impacts to tap value. In an more whele so he adjoin the CSCool Whele South Water south the argument than main invite an analy admining in other plants berange bodie to the materialism. "Y's solder to last forthall solde to assemptions placed in baseline, and it's using average excepting it. There's a setemation office - it's effectioning for palest and Color and Property.

For inholator argument activities along the code associated with holder associated states to have cought the patric's attention. It reason how from Total service quantity the Propriets visions at sixing the "fellow Big. Arts middens art as it" year job sithalthat pupils. If you don't don't a bottle in the garbage. "I've played the assessment people will be brished some. While need companies portably dur't consider the

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<sup>\*</sup> Lotad Reply Conference of Majors, Associate reperfug Reprotects of Processor Water (1997). possible at high more complete, representations of the confession resources. If age,

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<sup>&</sup>quot; size Williams, Page. Water Construction, Section in the Shelphy. The Size Water Congress To PROTE !

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Water private and representative is a complex and constraint from self-bryand fits using of the authors. However, is the long offer national building happy against the authors. However, is the longer offer nationals building happy against the self-bright transfer to the self-bright transfer of the self-bright transfer and produces a productive for the foreign Carlos States (carlos States and Contractive and Contractive transfer of Manager States (carlos States and Contractive and Contractive transfer of Manager States and Contractive an

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On a digenificational scale, regard feeding results in an insignificant property of creatile general near companies. Or continuous withdraways the feeding copy production represent well less than one most of one persons does than \$450°C of the least ground-business.

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<sup>\*</sup> Name Fish Year Commodification and Improved Providence of Viscolated Report Services
And Commodification of the Commodification of the

<sup>&</sup>quot;Storage Perfections, their Proposition (harriers, exports at

esthelianado to the United States. As Antibili phono, cost around Notice experproduction is approaching to Million pulling plot all of which content from granulations; The United States Contention of Service and region that and proved groundscate withdrowns in the United States in 1999 was 19,199 before patients. \* Of this areal agreement and of granulations for infiguries comparing, once 1991, (19,199 Million patients) of the analgranulations withdrivens. \* Of course, waste feeting made in a very high consequence of the same withdrivens, with practically an outer stateing to the ground. However, agreements originates are the cost, high consequence are man, with convents regging that covering in creat, precent 19,1990s. \* as the mosting sequence to configurations register is differentialized, disproportionals.

With easy builty is special; in impact in do true natural aggro of providence it are been agent-or impact on test greenforest eggins. Or another tree agents in test greenforest eggins. Or another republic the possible and posity of the providence agents. Significant providence perspects on come a temperature of perspects bearing of the valor MOSs, managed concentrate of contactment, and it come regions sell was providence for the agents. The affects into providence parts where with an error providency profile wasness.

Number growthom a other hydrolyngth common to their surface rates such as more, attachs, and lakes paid growthouse that is beinted and units or "spring wases" in its polynome hydrolynghists communities output springs, as discussed more before in the earlier on FSA registrated. Foreign proceedscare and take scape from these surface rester systems. The time Auditriage was assumedly described in a recent region convenienced by the Whitigar Ligarithtest in the walls of the french bottled many tigation in the rest citizensian in terms despit bytem;

Over time, the descript county of supprise a soft, particularly a soft completed or an observable operior, obseque to respect. This supprises either for physicianal groundwater discharge on the obtain or increased before to the physicianal groundwater species from the obtain. In order case, estimately, in the physician occurs and is office obtained to in observable contract, the first occurs and is office obtained to in observable contract, to the long term, the consultative companies contract that the long pump of physician country of the complete contract of the country of the long pump of the long term.

<sup>\*</sup> Linked Symmetric part for the Comment for all Nation is to committee, at AMS, Tolkin a product of May 1000 and a part of the part of the Comment of Market American

<sup>\*</sup> Not to appear to report power for agreembank integration, the character control control control to the control of the contro

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This prisolegar purply all on these impair soften more seen, belicomorphic more user, and purple else on the cortica more for remains and arefores. Further, who presidence is hydrologically contested to cortica ways. A with longe of estual moseum, initiating theories, contacts, and against invertebrary, other only on the production way in the relationship of the production of the production of the transmission of the Whole the product of the stone organization in [Mininger legislature determined the "Whole the product of the stone organization in [Mininger of Lower Protocols results from groundwater fluctuary." Injury lates and technical in not have treated froming the base, and groundwater, therefore, a the only inflore business promptions on the soften of the lates or welland. The egget contributed that "Indiger agents commentee in Mininger on dependent gover the forcitories of providence into cortical ways."

to discussed to the believing receives, the impacts of provide per withdrawed on other provides are and contacted soften extensions up were plan the light has in reprovides to facility water proposals.

# 68 Februaritzen Apphialis in Greenfranz Entiedina und Water Berding.

As a general system the foliosed government than the requirer water withdressed and makes are from synthesis requires as greatestware for furtised makes or any other purposes. Water have to principally replicated from an electronial in the sense launches. Himself, because facilities water to exceeded a freely product model the Futboal function (Ving and Freeless facilities) and the foliosette and the first product model the Futboal makes the directing water greatly and fabriling accordance. Further, sowers, fabrille several transfer to the greatly facilities may construct the product of the program. Freely, white our angulances, the United States Contrigued States provides at the program. Freely, white our angulances, the United States Contrigued States provides at the program to the provides and provides and the program to the provides and the program that makes the contribution of the property and transfer that more facilities, make, and found the force registers in provides are management.

### A. Front and Drug pulmocomorum Regulation of Bestind Water as a Front Product

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<sup>&</sup>quot; of 2 to 5 , 2 debut with amendminy high 1, his material life has been recorded.

noter goalfor standards. Surface, witnesser the EPA service to directing report completit. On PEA must also set a comba treat for booked water or request in the Federal Register with 8 is not diving as.

In solition to the major quality procursor engalations, the FSA regulate, "Monthly ableting of Station" the libratic regardation disposits the different types of Station regard to the station of Sta

Miscrefinant to be barried to the labeling requirements for "geting sease," which come to be the shortey that companies prefer. The X10A requirement pro-time.

The take of water derived from an antisegraned hotspital from what. ment from example to the patien of the costs was in "gating water." 'Spring water shall be collected only at the spring or Stategh a live help toping fly indeposed fireston finding by girts, then stall to c second from careing the reser to flow to the section floreight a second parker. The busines of the spiring shall be attractive. Spring mean policited with the use of an eventual times shall be from the same underground atmost as the taking, as above to a monomité toubeute. presenting using a fordingentiqueby wide resilied factories for him furfaand the cartest spring, and shall have all the physical properties. Notice trainers, and he of the most composition and quality, as the water from flows establish in the surface of the north. If going water is collected with the year of an excessed days, weath must continue to flow topychile to facearlies of the cash shough the opinion season within Floric stuff. determines, in names, in algorithm regulator, reflects, many is belongeringsel's ratio method, that an appropriate hydroxin commonter. points between the natural ordina of the spring and the base lacks."

The TON also requires that is units to produce facility' water with the common decimal plack of "spering region," a facilitat scale produces must drive some orthor (insult). Even a group or flowing provides for that has a finest by-divolginal connection to a surface group. This regulation has bad the promoted connection of patting freezenism deviated and

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process on springs, which are replicable rooms of the most fragile and subscripts make reliablest.

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While major wildelesseds and probables are not greenedly regulated under findered law, from an order help to uses have, unlocal follows were transcensed are may incommite apply in a quarter many hosting product.

1. The Select Water School Council Act Class Water Sett.

Species all at the States Super Policies of count for "domest community to the Class State State actions as to 5.5. Seary Class of Sugment in "some parents, offer eather and approximate for public beauting for the deathpape of designal in CS regarded attribute and approximate." In contrast IS of the Strate and States are supplied as a superior of the Strate and States are supplied as a superior of the Strate and States are supplied as a superior of the Strate and States are supplied as a superior of the States and States are superior of the superior and States are superior of the superior and superior superior and superior superior and superior superior superior and superior superior superior superior and superior superior

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<sup>\*</sup> Daniel Section, rates Corner in Nava Streets Afficiant 2001.

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The Contr. than his jurisdaction convenient majors and surfaces, are souther this only agents in the "Studienge" of destinative St. ensurings. " White groundwater and spring easily destination, for major holding or any other purpose, may disto major from highly graphs of concerns surface and not surfaces, the placeting of usage from audient sectors and surfaces, the placeting of usage from audient sectors and surfaces from the Chain Steam too. It make beeting agreement only made is another 6th people of a major to Sting surfaces incidentally to the usage annualists.

# William Street Street, Sci.

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# the Empreyation for many rights.

The jurisdiction of the Wales and the United Street, income country of payimmer included in a sublema with access, or recreational most only analhe described by conditional principles of less. Under the provisions of the described by conditional principles of less. Under the provisions of the described within Steel or States have at the other sould cheer in technical to the sectional within part acquire cheers contact that wrote the present thereof in just compensation. Nothing to the despite shall undertune at expense or regiment where or shreet on the part of the freshoot Europeaners as to recognise from these resident faces.

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<sup>\*</sup> MARKETS

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<sup>\*</sup> Special Reliant Steel Steel Spine Steel and Reporting contain a large from their professional and

phagins to the retain that such behalfellier tests by complicit elithrat transiting the purposes of the chapter or to administration."

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Each comproses of the optional wild and union rivers system shall be administrated in each expension or in product and obtains the radius which exceed it to the activities to read system without deather as is consciously therewith, fracting other way. That do not appropriately country with patricture and responses of these betters. In most administrative with patricture and responses of these betters, its most administrative process, respectively, and account to processing its addition, respectively, and account to proceeding the administrative and contractive to proceeding the processing and districtures and contractive to the processing and districtures, beautiful to proceeding the districture of the area.

### 3. The Yorkship Developmental Policy Ad-

The Napiscal Facilitations and Relian Act PATTHS of 1989<sup>15</sup> can impediate to "parameter processing acts and the parties decision and top ordered processing any arthrophics analysis."

It assumptions that are also place to the acts and the decision analysis and the larger and patter process. NEPA, "parameter that the ordered information will be study assumed and the larger analysis. But are also place to the in-year the decision making process and the implementation of that decision." NEPA's compaling input aspectoment is that follows agreemy property or four decisions of the decision. "All PA's compaling of the feature of resources." Again, there are the regarded action with regarded order of MPA's to the investigation to below acts and acts on the resource order and acts on the resource order and the resource order or the resource order order or the resource order order or the resource order order

# 4. The Enthropment Species Act.

The Endangered Species Aux (EEX)<sup>27</sup> is a presental regulatory law intended in previous the estimates of recomposit species. The EEX equation the factorizing of the intention in disturbing actival and plant species that are endangered of the according to the fact alreading and consequence data modifies and to list such species and designant their artifical habitat. Other a species is limit, habital agreedy review on their flast sections are not floot; to properties the fixed species, constraint enterings or flams that orbital

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habites." The CSS after problem any person from "habitegh" a finish grains, which includes dissurbance of ballots."

For DAA can be implicated in wear withdress's when additional increase flows are required for an inchespond queries but copy is already in our by private parties with most water rights. Testiants, a new super exhibitered than exactly diported the improgram flows and aquatic habitat of an entirespend operate would uneffect with the ESA. This application has some placetal a some feature, although it has offered other private mater application has some placetal and testing although it has offered other private mater application has some placetal and testing although it has offered other private mater application for some placetal and testing although it has offered other private mater application for the private some feature.

## 1. Toy 1984 Near Reviews and Devolupment for

It has been argued the hosted water substances, within the freeze basis basis reducts replace proteins of Minamenta, Winamenta, Miningan, Mining, Indiana, Indiana, (Mini-Personal Parks, and New York) are national in the section 1100 of the 1988 Winamed Recognition (Miningalante Act Epiperally reduced to an 1986 William). The second provides:

to meer dust to director or expented from any princip of the Creat Labor, writing the United Reson, or from any ethiciany writing the England States, of the any restricts the Creat Labor, firm the restricts the Creat Labor, from the restricts the Creat Labor, from policy math alreations or years to approve the the Connector of such of the Creat Labor, firm Creat Labor, firm

This, my of the Quant Lakes governey one rate a programal diversion of Quant Lakes make one of the basis. This possessify gives the Great Lakes states authority that they must otherwise not have purposed in the 4 months in the lakes states authority that they

It is all from a certical agents in whether the flow on Processor agents in the first of water training the Great Lakes-trainin. The cere toward excepting to one 1998 will fit to accompany training accompany to the company operation was discounted because the cere does not provide a private right of according to exclusive configuration. Further, 1996 within takin any appropriate for the greatestant collection approved and may not apply to ground teacher. Then, it determine provide a wild basis for additioning bottom water withdrawals.

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The Self Ray of Stillage Lath, Rapine A. South Street Physics 507 (1986).

<sup>\*</sup> NA. L. Yo. Wild. (1994) 100 rate 485. Cite profession encourse 670 lbs.) Wild St. (1994) \* Cit 1 bb. (1994) Mod. (1995) The matter and against the disease, diseases believed policy (18) professional for the St. (1995) (1995)

<sup>7</sup> ONE William was reasonable from pages of the Nagarous Front - Benedicts in Specimen is Managing and Principles of the CORD, which Stormal a soon of thing is manuscraped of ground community for Scotlage and American Stormach, pages of the Stormach and Stormach

<sup>\*</sup> Nor 1980 Placette Dig. Beach of Oliver Schieser - Geor Spring Water of Soc. No. 1987 Supp. 2007; W. Sr. 1980; Stella. For existenced construction of the act of a private high-of-action pade 1986 MRS(re, less Placette Vision, Schieser Spring Stella S

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### C. The Trend State Goldge of Server

The trend that changes have provide on against represent the continenes, it provides an argustly even represent the con, applying represent that effective, research, and investigative that and below, then and food decision realize in groundwater stangement. USOS investigatives and represents to belowed many princy official and provided unbased information by resolve groundwater dispose, missing dispose treating facilities water outsides. "I belongwash, the agency beautifully then a best of beautiful the limited in stiffs; to some major surgery and surfaces from a best of beautiful that he bested in stiffs; to some major surgery and some restriction.

### PY-Nair Lanc Applicable or Economics Sciences and Water Building

these for in the primary authority for major extilational and consequences, including ground-score connection for many facilities. It detailed and compenhancine spread of data was appropriate to many facilities, among the expect authorities, and in the each fire expect of this proclaim, formula this exciton will provide a manifest concerns of ground-space withdressed law in more complete cases that expected that the process principles and dissentity of data has.

 Complete Property BigNet for the Car of Endirelying Concentration - Budgerand Annuals From Ohio

The common has requiring comparing proschools rights only on visits by stee, but more paper follows come from all correlation rights in smaller prospects to Toron, discount tensors. Examining property owners been a right to the east of groundwater below state property, subject to interference with couplificating property owners below state property owners below and applications of this principle were explained in a provide our stated by the Eleo Supresso Coupl." The time spart to the bageonic Coupl. The time follows or stated to be timed that the time time of the spart to time a property of the back that the timed time at time at the time timed to be timed t

The fragment Eught of Otos first to loved to prior discretion or general-water rights and flattering for general-water well interference. In the next account of course, little uniqued a risk of outside the general-water first to be engageded on part of the band world, in the engageded on part of the band world, in the engaged electricity, by the progressive written whose question is the "."

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<sup>&</sup>quot;Between the officers, \$100 to begin bette."

<sup>&</sup>quot;Nagar's Break, College In Str., 100 (1001)

Under this holding, Ohio softpad in recognize any role requiring the sharing of superamong bestimeness overlying a common aquifer. Thus, any receive of graphity was striffed to use all the grand-mate for cools), without organi in how than our offscool acquitering dephasement. The fragment (that of this) are both two patrice points (overliants) for its holding.

- Bermon the entirence, origin, increasing polynomic climate region, and the canons which govern and plants that development, and or appeal, require and connected, that we adming to apheniciate any set of legal notes to request to these would be transfered in Expellent exceptionss, and would be described, practically intercubble.
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<sup>\*</sup>Torre B. St. Pichlah, kgs. Tell, prices of your old grade STA N. St. and Selb. Selfs.

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To ablieve this losse, the cover adapted a convolutive rights approach the der competing proved and confine report rights. Under this approach, a cover would look to the system manufacts and factors comproved for behaving competing species rights to a cardian manu. The behaving one is beauti or three principles, if you the last with other to analyte "fair participation" in the outer one preserving an exact, benefitful one of the contents to assume an provide. Second, the your will only protect outs, then not reasonable. Third, the last will only protect outs, then out reasonable. Third, the last will only protect outs, then out reasonable. Third, the last will only indicate are that outer out a size tyrough basis. For example, "nature" outs which are manufact for difficulty and broadcast much have principle over "artificial" out "which mostly contents out it as a content and prospectly and do not used in constraint in the existence, such as assumential partit part to reasonable." Other thereon include the extendibility of the outer out is the transmitted to the thereon include the extendibility of the outer out in the transmitted to th

In applying these factors in the present disperts, the count first until that both comparing some (Friedd's water booking and the placed's conceptional and probable origination of the Elect Monator per constraints and bookings; and that certifies one way to problemate or exceptionally of the transport made that it pre-entires that that pattern, because the hand in the present of pumping, the contraints of the water body the bookings, one and the country of the layer. In this case, North fift, and most in pumping the first three the contraints to the pre-entire transport and it. Transport to the country of the layer of the state of pumping would come or probable there as the Shart Street. Transport, the country of pumping would come or propagate of 400 gave reach contraints the country of th

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<sup>\*</sup> Andrew Character Floor Construence or State Report Contribution (See A. Spring Colors)

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#### Appendix 6 LCX.

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# Academic Approximates

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Laborato of Mindigen Law Solony, And Autom 198, USL, 1996.

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### STATEMENT OF JOSEPH K. DOSS

Mr. Doss. Good afternoon, Chairman Kucinich. And Congresswoman Watson I think has just left.

My name is Joe Doss, and I am president and CEO of the International Bottled Water Association. We appreciate this opportunity to discuss environmental issues associated with the bottled water

industry's extraction of groundwater.

Groundwater, particularly spring water, is the primary water source for bottled water products sold in the United States. Because a long-term, sustainable supply of high-quality water is the foundation and lifeblood of bottled water companies, IBWA members recognize the critical importance of environmental conservation and stewardship of all water resources. In particular, IBWA supports groundwater management laws that are comprehensive, science-based, multijurisdictional, treat all users equitably and balance the rights of current users and the future needs to protect the sustainable resource.

The bottled water industry uses only minimal amounts of groundwater to produce this important consumer product and does so with great efficiency. According to a 2005 study by the Drinking Water Research Foundation, annual bottled water production accounts for less than 2/100 of the 1 percent of the total groundwater withdrawn in the United States each year.

The two largest users we've heard before of groundwater in the United States are irrigation and public water systems. According to the 2004 U.S. Geological Survey, irrigation accounted for 68 percent of the total groundwater withdrawn, while public water systems.

tems was the second largest user at 20 percent.

It is important to note that an aquifer or other groundwater source does not know the difference between water withdrawn to produce bottled water and water withdrawn to make other beverages or consumer products. Although bottled water is currently the second most consumed beverage in the United States, its consumption volume is about half of that of carbonated soft drinks and only slightly ahead of milk and beer. All such beverage products fundamentally have a high water content. Bottled water is just one of countless products and enterprises that use water; and to single out any one product or industry, particularly one that accounts for only 0.02 percent of all withdrawals, will not be effective in sustaining groundwater resources.

The States have a strong interest in regulating and ensuring efficient use of water resources and must effectively manage them to ensure that this important resource will be sustainable for all users. IBWA believes that in order to ensure sustainable water resources, a comprehensive management approach must be taken. To this end, the bottled water industry has been a strong and vocal supporter of comprehensive State groundwater management legislation that requires the permitting of large groundwater withdrawals and ensures a science-based approach to evaluating potential

impacts of all users.

For example, we recently supported the enactment of such laws in Maine, Michigan and New Hampshire. Based on our experiences in the State, it is very clear to IBWA that there is a need for more and better data on the aquifers throughout the United States in order to assist State authorities in managing available water resources. We think that this is an area where the Federal Government can play an important role. As a result, IBWA supports the enactment of H.R. 135 which would establish the 21st Century Water Commission to make recommendations on how to ensure comprehensive water resource strategy in the United States.

The Commission would be authorized to, one, project U.S. future water supply and demand; two, study current water management programs of Federal, intrastate, State and local agencies; and, three, consult with representatives of such agencies to develop rec-

ommendations for a comprehensive water strategy.

Bottled water is comprehensively regulated as a processed food product by the FDA. By law, FDA's bottled water regulations must be as stringent and protective of the public health as EPA's stand-

ards for public drinking water systems.

Under FDA regulations, there are two fundamentally distinct types of bottled water products. The first type is natural water, such as Artesian water, mineral water and spring water, which all have groundwater sources. The second type is processed water, such as purified water, which could be from a groundwater or a municipal water source. Bottled water is sold in small containers at retail locations and restaurants and is also delivered to homes and offices in three- and five-gallon bottles used with water coolers.

In summary, Mr. Chairman, bottled water is a safe, healthy, convenient food product and is an extremely small user of groundwater when compared with all other users. The bottled water industry is a conscientious and dedicated steward of the environment which has been demonstrated by its active pursuit of responsible groundwater management policies at both the Federal and State

IBWA supports groundwater management policies, laws and regulations that are comprehensive, science-based, multijurisdictional, treat all users equitably and balances the rights of current users and the future needs to provide a sustainable resource.

Thank you for considering our thoughts, and IBWA stands ready to assist the committee and the subcommittee as it considers this

very important issue.

Mr. KUCINICH. I thank the gentleman.

[The prepared statement of Mr. Doss follows:]

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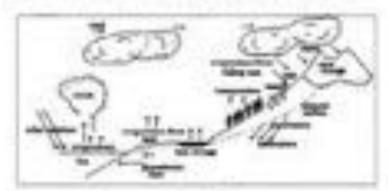
# Groundwater Resource Management

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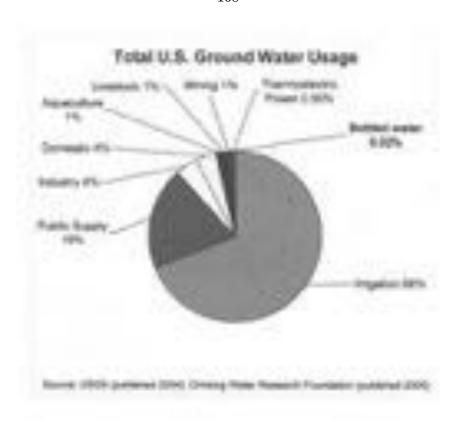
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Mr. KUCINICH. Mr. Wilfong.

#### STATEMENT OF JAMES WILFONG

Mr. WILFONG. Thank you, Chairman Kucinich. Thank you very much for inviting to testify here today on this very important topic.

I'm from a little town in the western mountains of Maine called Stow. Stow is located in a very freshwater rich area backed up against the State of New Hampshire in the White Mountain National Forest.

In 2003, several citizens of this region, including myself, were concerned about the large-scale extraction that was taking place in the Fryeburg, ME, section of the Saco River Sand and Gravel Aquifer, an aquifer that extends from Bartlett, NH, to Hiram, ME. The recipient of this extracted water is the largest bottled water company in the world, Nestle. We knew that they were not here for a little water, that they were here for a lot of water. This raised several immediate questions and concerns for us.

One, who owns the water?

Two, who will control the usage of the water?

Three, how will the water be allocated if it becomes limited?

Four, is damage being done to the aquifer or the surrounding environment?

Five, do the citizens of Maine have a financial interest in this resource?

Six, which regulatory agency is responsible to sort out these many questions? Is it a State, local or Federal responsibility.

And, seven, since water is considered a tradable good or commodity, is trade treaty law somehow involved and how would that law affect local, State and Federal laws in the environmental area?

And finally, eight, is our community ready for this business?

I'm sure that we had a few more thoughts, but this was a start. The answers to these questions in Maine were not encouraging. We are ruled by the common law of absolute dominion. Essentially, this law means if the water runs under your property, you can pump it. In Texas, they call it the law of the biggest pump. Under this doctrine, the landowners over groundwater claim ownership. This may seem strange, as groundwater and surface water are part of one hydrological system and in Maine surface water is in the public trust and groundwater is not.

So several questions remain to be answered.

So who will allocate the usage?

It is not clear. It still has not been decided.

Is the environment and the aquifer being damaged?

Well, in some cases, studies have been done, but, in many cases, expertise for review and long-term evaluation has not been sufficient and the public isn't sure the resource is being protected.

What can citizens do to protect their interest?

In Maine, we wanted to pass a comprehensive law. We looked at four legislative concepts. We wanted to extend Maine's environmental law to large-scale extraction. We wanted a fair, open and transparent citizen's process. We wanted to establish reasonable use standards. We wanted to place groundwater under the public trust doctrine, and we wanted some recognition of the public investment in clean water. We suggested a severance tax on major

extraction and to have the revenues invested in a permanent fund similar to Alaska's oil trust.

H20 for ME, the bottlers and their stakeholders launched into a Statewide debate and added to the national debate on groundwater issues. After nearly 4 years of debate and discussion, H20 decided it was necessary to protect the resource and the environment as a first step. We found legislators who agreed. We also found a willingness among the bottlers and other stakeholders to be constructive, and we negotiated a position.

In June 2007, the Maine legislature passed a law that does the

It places all large-volume wells under the Natural Resource Protection Act.

Two, it provides for an open and transparent citizens process.

Three, it requires perpetual monitoring of all high-volume wells. Four, it requires the applicant to pay for expert consultants to review, evaluate and make recommendations to the State.

Five, it establishes a freshwater resource committee within the State planning office to investigate all freshwater uses within watersheds.

And, six, it places environmental management and review responsibility for groundwater into two departments.

That is essentially what it does. It does not establish a public trust with water. It does erode absolute dominion. The law will only be effective if citizens are diligent about the enforcement of its intent.

Finally, what could the Congress do to help the situation?

Well, it could provide financial resources and technical assistance to local and State regulators involving environmental studies and review.

Two, it could establish Federal minimum environmental standards for major extraction wells.

Three, it could review trade rules concerning water being designated as a tradable good and ensure access and control of clean freshwater for the long-term best interest of U.S. citizens.

Four, it could extend standing to U.S. citizens using the Clean Water Act as a model.

Five, it could place all freshwater in the public trust, and it could hold the national conference on freshwater issues.

The Maine law is a start. Each State must review its situation and adjust its State statutes to meet the new realities of the freshwater demands of the bottled water industry. For those States with weak and outdated law, the new Maine law could be a first-step model.

I wish that more than 30 years ago when I was a young legislator who was working on clean water law that I could have seen the future. We could have fixed our groundwater law right then. Water was bestowed upon us by the same power that granted us our freedom. Water is life. When it comes to potable water law, we can't afford to get it wrong.

Thank you very much.

Mr. KUCINICH. I thank the gentleman.

[The prepared statement of Mr. Wilfong follows:]

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Mr. KUCINICH. We're now going to go to questions of the panel and to Professor Hall.

In many of the bottling cases, Federal jurisdiction is invoked when groundwater extraction affects surface waters. Do you believe that Federal agencies such as the Army Corps and the EPA diligently enforce acts like the Clean Water Act and the Endangered Species Act in these cases?

Mr. HALL. Thank you, Mr. Chairman.

In the bottled water cases—in many of the bottled water cases, including some of the ones I've been involved in—and I should disclose that I represented some conservation groups, Trout Unlimited, National Wildlife Federation and the Nestle case in Michigan—Federal jurisdiction and Federal statutes were not an issue. Federal statutes really come into play only incidentally, if, for example, the water bottler is also discharging pollutants into a navigable waterway or filling a wetland. But keep in mind that the Federal wetland regulations only pertain to the placement of dredged or filled material into a wetland, not the draining of water out of a wetland. So the U.S. Army Corps of Engineers doesn't really have much of a hook to address the environmental impacts of water withdrawals.

Mr. KUCINICH. Thank you.

Now, in the proposed Great Lakes Compact that has not been ratified by Congress, I understand there is an exception to the antidiversion provisions for products that are less than 5.7 gallons. Does this provision effectively exempt typical bottled water products? And if it does, is there environmental justification for the 5.7 gallon threshold requirement?

Mr. HALL. That is an excellent question, Mr. Chairman. Thank

you.

Of course, I've been intimately involved in both the negotiation and drafting of the proposed Great Lakes Compact. The exception that you mentioned, the Great Lakes Compact, bans diversions of water out of the Great Lakes basin which includes parts of eight U.S. State plus two Canadian provinces. Exempted from that ban on diversions of water out of the basin is water in containers less than 5.7 gallons, basically an office cooler. So you're correct. Bottled water is exempted from the ban on diversions.

However, the Great Lakes Compact would also require public management by the State of water withdrawals, both ground and surface water, at the State level for water that is used within the basin; and water withdrawals for bottled water or any other use

are still subject to those requirements.

So I think it is actually a pretty fair compromise, all things considered. A water bottler within the Great Lakes basin, if the Great Lakes Compact is enacted, which I hope it is, would be subject to a long list of permit requirements, environmental protection standards, water conservation measures, as well as citizen review and judicial review of any permits that are granted. They wouldn't be flat-out banned, but they would be under pretty good regulations, and I think it would be a step in a good direction.

Mr. KUCINICH. It is my understanding that the FDA did not subject its spring water classification to a NEPA review. Do you think it was obligated to do so under law? And if it did undertake such

a review now, what would be the practical consequences? Could anything be gained.

Mr. HALL. That's another good question.

When the EPA promulgated its current bottled water rule, it did not conduct an environmental impact statement pursuant to the National Environmental Policy Act. I believe it should have. The

issue was not raised at the time.

I think it is very clear, even just looking at the common agreement among the panelists, that bottled water withdrawals from springs certainly have the potential for significant environmental impacts, which is the threshold requirement for an environmental impact statement. And I think if the FDA were to relook at that rule or reconsider it or if there were a petition for rulemaking filed to the FDA, it would absolutely have to comply with the environmental impact statement in connection with its bottled water spring rule.

Mr. Kucinich. I think that is quite significant.

Now, in the wake of recent Supreme Court decisions narrowing the definition of navigable waters in the Clean Water Act, have there been proposals to enact new legislation to expand Clean Water Act jurisdiction to the maximum that the Constitution permits to believe that this legislation is advisable and will it make much of a difference for the types of disputes that we have heard

about today?

Mr. Hall. Yes, Mr. Chairman, I do. I believe it is Congressman Oberstar and my Congressman, Congressman Dingell, who have led an effort to enact the Clean Water Restoration Act which would make clear really that the Federal Government's jurisdiction over navigable waters extends to all waters of the United States to the extent of the commerce clause of the Constitution. I think that is excellent legislation. That is how the Clean Water Act was enforced and applied for over 30 years. I'd hate to see us take a step back in the wake of the Supreme Court's recent Rapano's decision.

Mr. KUCINICH. Thank you, Professor Hall.

Mr. Shavs.

Mr. Shays. Thank you, Mr. Chairman. Thank you for having this

hearing.

I view water as precious as gold in so many different ways. And it was not lost to me that foreign companies came and bought a number of water companies in the New England area because they bought it for the water and they bought it for the land because there is so much land that is reserved to protect our water supply.

I'm wrestling, though, with this topic as it is designed against—as it appears to be focused on bottlers of water. I look at Candlewood Lake in my State. I think a lot of that water goes to New York City. And I'm wrestling with the fact that water from northern California goes to southern California. I am wrestling with the fact that soda uses water. You know, Gatorade uses water. And yet we're focused on the water company. You know, I am tempted to ask you, Ms. Hauter, if you'd prefer and do you think that Coca-Cola is better for me than drinking water from a bottle. Is it better?

Ms. Hauter. Well, I think what we believe——Mr. Shays. No, no, I need you to——

Ms. HAUTER. I think that what we believe is that it is a societal question. Do we want safe and affordable

Mr. Shays. That's not what I asked you. I asked you specifically if you think the water in a Coca-Cola is better for you than the

water that would be pure?

Ms. Hauter. I think that is a question—it is an unfair question. Mr. Shays. It is not an unfair question. If you are going to come and testify before us and you are going to attack companies for making money, it is very fair. Otherwise, you're a meaningless witness, and I shouldn't ask you any questions.

Do you want to be relevant? Do you want to testify? Then answer

the question. Please answer the question.

Ms. HAUTER. I think that Coca-Cola is unhealthy and that drinking a glass of tap water is a better option than drinking bottled

Mr. Shays. Let me ask you this, though. Why would you not have the concern—I guess I don't know. Maybe Professor Hall. Where does Coca-Cola get its water from?

Mr. Hall. Coca-Cola—both for the product Coke and as well as for what I believe is their Dasani brand primarily uses water from a municipal water supply.

Mr. Shays. Doesn't the same analogy apply to soda and beer that

would apply to bottled water?

Mr. HALL. In some instances, yes, it does. For example, Coke, which primarily sells bottled water that comes from municipal water supply, I believe it is Dasani is their brand name.

Mr. Shays. I'm not talking bottled water. Mr. HALL. Yeah, it is the same as Coke.

Mr. Shays. So they are depleting, in a sense, the water supply locally and distributing it nationwide?

Mr. Hall. Correct.

Mr. Shays. OK. Water, basically, I believe is 1/50th percent of the water that we consume. In other words, it is less than a percent. It is not 1/10th of a percent. It is 1/50th of a percent. So, in the realm of things, why should I be focused on this issue, as opposed to the other 99 percent?

Mr. Hall. That is an excellent question, Representative.

I would say that, as I hopefully made clear in my initial testimony, bottled water is a tiny microscopic use of the overall national water supply. And from a macro level, it is really not a major concern in terms of our water conservation and use. The concern is that spring water bottlers withdraw water from, by definition, springs which are very small, vulnerable water resources such that-

Mr. Shays. These are unique water systems that you're making the point about?

Mr. Hall. Exactly.

Mr. Shays. Let me ask you. In Stanford, CT, next door was Greenwich, CT. Greenwich—American Water Co., I think is the name of it, didn't have enough supply. The bog reservoir, they were going to pump from the ground and put into the pond-into the lake, and then they were going to take it. And we realized in Connecticut that we didn't have anything that focused on the water table. We focused on surface water.

So what I did as a State legislator is I gave that right to the Department of Health. Because I do think Ms. Hauter and others have an issue as it relates to a locally confined area that may find its water table being drawn down. Why wouldn't that just be an issue that Maine, New Hampshire and others should work out on their own without the Federal Government stepping in?

Mr. HALL. Well, first off, I'm pretty familiar with that region. I

actually grew up in Richfield right by Stanford.

Mr. Shays. Do you have family still there.

Mr. HALL. Yeah. Yes, sir.

Mr. SHAYS. Geez, I have to be on my best behavior. I just want to say you have been an excellent witness.

Mr. KUCINICH. And even though the gentleman's time has expired, since there is this local connection, I'll ask the professor to

answer the question.

Mr. HALL. Thank you. And, in all seriousness, it is an excellent question. I think that primarily water use should be managed at the State and local level; and I think, by and large, State and local governments have done and are doing an excellent job of improving their management. But, however, the FDA through the spring water rule has created essentially a national market for some of the most vulnerable water resources in localities and State, and so this is a problem that in some part was caused by the FDA and to some extent can be fixed by the FDA.

Mr. Shays. Just last, though, I mean, if the State of New Hampshire or Maine or whatever is concerned with what is happening with its aquifers, with its springs, it does have the legal authority to step in, correct?

Mr. HALL. Absolutely. Yes.

Mr. Shays. And I would just say that I hope it does in a constructive way working with the bottlers and so on.

Mr. KUCINICH. I thank the gentleman. His time has expired.

To Professor Hyndman, is there a difference from a hydrological perspective when you use groundwater for irrigation for agriculture

versus using it for extraction for water bottling?

Mr. HYNDMAN. The primary difference is exactly what Professor Hall just mentioned. I mean, groundwater is groundwater. If we're talking about shallow groundwater, the quality of much of the shallow groundwater across, say, the Midwest is fairly similar. The main difference in agricultural pumping is that is largely from deeper aquifer systems that are further down in a watershed. They're not in the headwaters of a watershed.

Mr. KUCINICH. Is one more damaging than the other?

Mr. HYNDMAN. Yes. The spring water pumping is more damaging because of the fact that it is in the headwaters.

Mr. Kucinich. Would you repeat that.

Mr. HYNDMAN. Yes. The spring water pumping is more damaging in my opinion because it is done in the headwaters of watersheds.

Mr. Kucinich. Because it is done?

Mr. HYNDMAN. In the headwaters of watersheds in ecologically sensitive areas.

Mr. KUCINICH. Now I'd like to ask you one more question, but I'd also like to ask Mr. Doss and Ms. Hauter to respond. And I've always wondered this. Can people typically perceive a difference in

taste and is there a quality of difference between FDA defined spring water and bottled water that does not technically meet the

spring water designation. Professor Hyndman.

Mr. HYNDMAN. For me, that would be a personal choice. And I—personally tasting between the two of them in a blind tasting, I probably could not tell you if one is spring water versus not.

Mr. Kucinich. Professor Hall.

Mr. HALL. I doubt the average person could tell the difference. And, in fact, some municipalities like Evart, MI, have as municipal water, water that meets the FDA spring water definition.

Mr. Kucinich. And Ms. Hauter.

Ms. HAUTER. No. There have been many taste tests around the country and people have difficulty. Basically, bottled water is marketed on its packaging and its sex appeal and the claims that it is healthier, not taste.

Mr. KUCINICH. Sounds like a Presidential campaign.

Mr. Doss.

Mr. Doss. It is a consumer choice. Obviously, some consumers may prefer tap water; some consumers may prefer bottled water. We don't disparage tap water. We think that if people are drinking water that is a good thing, because it is a very healthy product. Again, it boils down to consumer choice. I can tell the difference in many bottled waters, just as I can tell the difference between tap water and other beverages.

Mr. Kucinich. You are saying you can't or cannot.

Mr. Doss. I can.

Mr. KUCINICH. You can?

Mr. Doss. Absolutely.

Mr. KUCINICH. Can we take a test right now.

Mr. Doss. I'm just saying I can certainly tell the difference in many bottled waters that I drink.

Mr. Kucinich. You're under oath, but you're-

Mr. Doss. Absolutely.

Mr. KUCINICH. We'll give you an exemption.

OK. Mr. Wilfong.

Mr. WILFONG. Yes, I think there really is no difference. The water just happens to hit a low point in the ground and bubbles

up and out of it. It is all essentially the same water system.

Mr. Kucinich. OK. To Professor Hyndman, if the FDA changed its definition of spring water—I'd like to ask Mr. Doss to answer this, too, so you can get ready. If the FDA changed its definition of spring water to include groundwater not immediately and directly connected to a lake or spring, that is, you don't have to draw down the spring when you pump in order to sell it as spring water, would that alleviate the direct impacts in spring wetland surface water situations like in the McCloud, NH, and other locations where they have been having problems during lower precipitation—or there have been problems during lower precipitation or drought-like conditions.

Mr. HYNDMAN. Thank you, Mr. Chairman. It is an excellent

auestion.

If the FDA changed the definition to include groundwater that is in the vicinity and even deeper groundwater, that could resolve the concern because the pumping would not be pushed into those headwater areas. And, in fact, you could do hydrogeologic studies that would basically define the best areas to put this pumping where it would have minimal impact.

Mr. Kucinich. Mr. Doss, would you like to respond.

Mr. Doss. I think the issue really goes back to the question of sustainability at the State level. When a State grants a permit for a bottled water company to withdraw that water, they should take into consideration all the science involved. They should take into consideration all the concerns raised here today by these professors. And if they decide that the water source is not sustainable with the bottled water plant, then they should deny the plant the ability to pump water from that particular source. So I think it gets back to sustainability

Mr. KUCINICH. I'd like to just go and ask every member of this panel a question. From your written and oral testimony, there seems to be broad support for the proposition that the USGS should be empowered and funded to assume a much greater role in groundwater mapping and monitoring. And if this is so, why hasn't it been done yet and what political obstacles stand in the way of that reform? Ms. Hauter.

Ms. HAUTER. I think it is something that has been overlooked and there has been a lack of funding for and that we have to get busy and it is not just for bottling—for bottled water, but we need to do it for a range of water issues from agriculture to industry.

Mr. Kucinich. Professor Hyndman.

Mr. HYNDMAN. I think that the issues go beyond just mapping for the U.S. Geological Survey. In fact, it is very important for the funding for the USGS to have monitoring of surface water. It is an incredible network that the U.S. Geological Survey has across the country, but the funds have been continually cut. They have to keep going back to cooperators for money.

And personally when I do research on broad scales to try to figure out the impacts on the things like climate change and land use change, it is very difficult when these USGS gauges go off line or, you know, a new one will startup somewhere else because that is where a cooperator has an interest. If we don't maintain the network for the type of science we're talking about, it is very difficult

to talk about what the impacts will be.

Mr. KUCINICH. Thank you.

Professor Hall.

Mr. Hall. The truth is that doing the scientific work, gathering information, the research, it is not sexy. It doesn't capture the public's imagination. The work that Professor Hyndman does, the work that I do, the work that USGS does is often overlooked, and that is unfortunate because really that information is the foundation for making good decisions. And so I think one of the most important things that this committee could do would be to strongly recommend more funding and support for USGS.

Mr. Kucinich. Thank you.

Mr. Doss.

Mr. Doss. I think I would say that we have a consensus here that decisions need to be made on sound science, and I would agree with that. And IBWA has supported the enactment of the 21st Century Water Commission, which will help those Federal agencies share data with the State, that can allow the State to make more informed decisions, have better science. We think that is a great thing, and we support passage of that Federal legislation and think that is a proper role for the Federal Government.

Mr. KUCINICH. Thank you.

Mr. Wilfong.

Mr. WILFONG. Yes, I would agree with all that has been said. We need a lot of help, especially in the smaller communities that have few financial resources to be able to take a hard look at the groundwater situation.

Mr. KUCINICH. Thank you.

Mr. Hyndman, we showed a photo of the Dead Stream to the first panel witness from Nestle. And this photo was taken at a time after Nestle began pumping in Michigan. My staff was informed that this photo was shown to Nestle. What did you think the photo shows? What do you think it shows?

Mr. HYNDMAN. This is the mud flats in front of the Doyles' property, and the Doyles were involved in that case. And during this summer, as well as at least one previous summer, the conditions went to a point where the levels had fallen below what had been observed prior to pumping. And it is a situation where the pumping that is occurring is drawing down the water level beyond what the natural conditions would be. So, therefore, the impacts are exacerbated by the pumping that Nestle has

Mr. Kucinich. Was this beavers that did this?

Mr. HYNDMAN. No, this is not beavers. This is a low water level. Mr. Kucinich. How do you know? How do you know it wasn't beavers?

Mr. HYNDMAN. Because I am very aware of what is happening at this site. And there has been a beaver dam intermittently down below this site.

Mr. Kucinich. How many beavers would it take do that?

Mr. HYNDMAN. I am not sure how many beavers.

Mr. KUCINICH. OK. I just thought I would ask.

Ms. Hauter, is there a connection between what you see as a threat of privatization of public water resources and the deterioration of the public water infrastructure? Could there be some sort of taxation scheme by which either consumers or producers of water products fund improvements in the public infrastructure, such as the Clean Water Fund that you propose in your written testimony?

Ms. HAUTER. Yes. This is one of our main concerns with bottled water. Because it is sold as safer, because we no longer see public water fountains being built, we are concerned that it is actually undermining our public water systems. And we do generally have very safe and affordable drinking water, but we have real infrastructure problems. And every year there is a \$22 billion deficit. And in the future, in the very near future, if we don't have more Federal investment in our water infrastructure, we could be in a situation where there isn't safe and affordable drinking water. So we would like to see that public commitment to safe drinking water grow. And we do need a clean water trust fund to do that.

Mr. KUCINICH. Thank you very much.

I want to thank all the witnesses. I am Dennis Kucinich, chairman of the Domestic Policy Subcommittee of the Oversight and Government Reform Committee. This has been a hearing on assessing the environmental risks of the water bottling industry's extraction. I want to thank all the witnesses from the first and the second panel for their cooperation. The subcommittee will be in correspondence with you to followup on some of the points that were raised today. I want to thank the staff on both sides for their participation, Mr. Issa for his cooperation.

And without further discussion, this committee stands adjourned. [Whereupon, at 4:26 p.m., the subcommittee was adjourned.] [The prepared statement of Hon. Bart Stupak follows:]

# Opening Streement by Congressman Bart Stopels

Substanting on Demonic Policy
'Assessing the Environmental Early of the Muses Annilog Indians's
Entrantism of Communicator'
Successor Ct. 2007

Thank you, Mr. Chairman, and Meinhers of the Subcommittee for beliding this very important bearing on the environmental risks pound by the water bottling industry's extraction of groundwater.

Since 1992, I have made it my mission to protoct and promote Michigan's most procious sources, the Great Lakes.

The Great Lakes are important to area residents for more than just a source for strinking water. Millions of people nely on the Great Lakes for jobs, transportation, agriculture, and energy production. 180 million term of cargo are shipped armsally representing an over \$4 billion economy.

Currently, Great Lakes water levels have reached the lowest point in recorded bissory dating back to 1918. As a result, additional expensive deedging projects will be required to sustain access to harbors and transportation toutes for communical shipping. Lower water levels have also affected water quality by reducing the bakes ability to flush out toxic substances and excessive levels of natriants, such as phosphorous and nitrogen.

Oroundwater sources, which bottling companies sock to extract from, play a vital sole in replexishing the Great Lakes. Groundwater slowe makes up approximately 18% of Lake Michigan. Today, the Army Corps of Engineers wehale shows that Lake Michigan is more than 2 feet below its morethly average.

The Nextle Company pumps 218 galliers per minute of groundwater headed for Lake Michigan. The City of Detroit has also emered into water contracts with Coke and Pupsi to bottle and ship substantial amounts of Great Lakes water to Aquafina and Dasani. Future water bottling facilities have already been proposed. These companies do not own this water, the people in the Great Lakes basin do. Regardless, bettling companies are being allowed to take a shared resource, our Great Lakes water, and turn it into a commodity which they sell for a profit.

With the cet prefit of the bestled water industry in the billions, the drive to extract more from the Great Lakes for commercial gain will increase. The problems associated with low water levels in the Great Lakes will only become worse with the expansion of the borded water industry.

Many in the bottled water industry will argue that their extraction of this public resource will have no impact on the natural acology.

However, Mr. Chairman, these arguments ignore the autonomical growth of consumption occurring in the United States. The Beverage Marketing Corp. estimated that the U.S. consumed 8.2 billion gallons of bottled water in 2006, 3 billion gallons more than 2001. Without a has on the entraction of groundwater sources in the Great Lakes Basis for bottled water export, it won't be long before irreparable harm is brought upon this printine previousness. The reckless commoditiousion of groundwater only serves to add unsucessary pressures to an already struggling revisionment.

Crossedwater plays are integral part in replicabilities our Great Lakes. According to a recent study on Great Lakes water, the lakes replicably thereselves by less than 1% per year. We consume 3%-3% per year, resulting in an average net less of an much as 4% per year. We cannot affeed to lose any water that helps to replicably the lakes.

Mr. Chairman, thank you again for holding today's bearing on this critical issue.