History of the Wellington Water Watchers Part 1: Launching a Local Movement

Robert Case & Leah Connor, October 2019

In 2000, Nestlé bought Aberfoyle Springs with a water bottling plant and two wells in Wellington County, Ontario. In late 2006, anticipating an application for the renewal of Nestlé's Provincial permit to take water, a group of Guelph and area residents organized and launched a campaign opposing water bottling. By the spring of 2007, the Wellington Water Watchers was born, and by mid-summer, the city of Guelph was abuzz with discussion, media headlines, and action related to the controversial corporate water-mining operation just south of the city. By the end of the 30-day public comment period associated with Nestlé's permit renewal application in May 2007, WWW's campaign mobilized more than 8,000 comments from citizens opposing the permit application. Overwhelmed with the response, the permit process stalled and it was not until a full year later (April 18, 2008) that the provincial Ministry of the Environment awarded Nestlé its permit renewal.

The decision was not what the water activists had been hoping for, but the public action surrounding the application process did impact the application review and decision-making process, and won some significant concessions, including the limiting of the permit to a two-year term, rather than the five years Nestlé applied for, and the introduction of more stringent (but nonetheless limited) monitoring requirements. More significantly, the success of the campaign

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1 With the same purchase, Nestlé Waters Canada also procured a well and bottling plant in picturesque Hope, B.C. This story, however, focuses on the community response to Nestlé's water-taking and bottling activities in Wellington County, Ontario.

2 "Numerous requests for a two-year term" rather than the five-year term requested, in conjunction with the identification by activist groups of specific indications of negative hydrogeological impacts of Nestlé's water-taking on nearby Mill Creek led the Ontario Ministry of the Environment to limit the term of
raised the profile of water issues in the area, consolidated a growing concern into collective action, and established the Wellington Water Watchers as a leading voice for water protection in Wellington County and beyond. Over a decade later, WWW and its growing network of partners, allies, and supporters have earned international attention for its organizing and advocacy on water issues, including water bottling, and have become an increasingly influential political force.

What follows is the story of the founding of the organization, derived from semi-structured interviews with the founding members of the organization and a review of available archival materials. While the organization has been in existence for more than 12 years and shows no signs of abating, at the time of writing (summer 2019), the story below can be considered a first chapter in the history of the Wellington Water Watchers, with its focus limited to the very early years of the organization and its campaigns – beginning in late 2006 and ending with the launch of a new phase of programming with an educational program known as the Message In The Bottle in 2009. Our hope is that the project of documenting WWW’s history will continue with contributions of new insights, additional archival materials, and new chapters in the coming months and years.

Nestlé’s permit to two years and to include “additional and more comprehensive monitoring conditions” on the permit, “such as increasing the frequency of measurement and the number of gradient monitoring locations as well as habitat and ecological studies” (Ontario Ministry of the Environment, 2008).

Interviews were conducted by Leah Connor (research assistant) as part of an academic research project of Robert Case, Renison University College, Waterloo. This project received ethics approval from the University of Waterloo Research Ethics Board (REB# 31267)

Questions, additions or corrections related to this publication, and/or contributions of archival materials, subsequent ‘chapters’, or other ideas for extending this social history of WWW should be directed to Robert Case @ rob.case@uwaterloo.ca.
Somebody had to do something

It was late at night, sometime in November 2006, and Mark Goldberg was on his way home to Guelph from the Toronto Pearson Airport after a business trip. He exited Highway 401 at Brock Road and headed north, and as he slowed his vehicle down as he approached the town of Aberfoyle, in Puslinch Township, Mark noticed something he had not paid attention to before. Pulling out of a driveway, in front of a sign reading "Nestlé Waters Canada Bottling Plant and Head Office," were two, unmarked tractor trailers, turning south and heading towards the 401.

Mark had seen the Nestlé sign before, but he had not really thought about it. Seeing the trucks that late in the year and that late at night, however, gave him pause:

*I saw these two trucks turning out that way it made me sort of think... I wonder why are they shipping in November? I know that people drink a lot of bottled water in the summer time, this was the winter time. And I started to think they must have people there loading these trucks – they're probably on the night shift – and I wonder how many people work on the day shift loading trucks. I wonder how many trucks pull out of there, how much water they're shipping, where it's going... I hadn't given it a lot of thought before then.*

The very next day, Mark, a toxicologist and environmental consultant who knew how to research water-taking permits, started searching for information and found Nestlé’s permits to take water on Ontario's Environmental Registry. He discovered that a permit, which was up for renewal the following spring, would approve Nestlé Waters to take 3.6 million litres each day for the next 10 years from the aquifer beneath its bottling plant in Aberfoyle. With a little more research, Mark discovered that Nestlé brand water from Aberfoyle could be bought anywhere "from St. John’s, Newfoundland to Victoria B.C." He asked friends in each of these locations to purchase bottled water, photograph the label showing it originated in Aberfoyle, and then swear an affidavit before a notary public that they had purchased the bottle in their city. This proved
that water from Aberfoyle was being sold across the country. Others reported seeing Aberfoyle water in Florida. "Is this right?" he thought to himself. "It is leaving our watershed. That's an awful lot of water."

So he started talking to others about it and thinking about pulling together a group of people to investigate further. One of those people was James Gordon. Mark knew James as "a musician and local activist." "He had been very active in trying to stop Walmart from coming into Guelph," Mark explained. "So I went to James and I ... explained to him what I found and I said 'will you help me make people aware of this and maybe try to stop this?' And he said 'Oh yeah, that's great.' James is a musician and he is very good in front of a microphone, so I said 'You play lead guitar, and I'll play rhythm and back you up with the facts and figures and see what we can do.'"

"I remember the day he [Mark Goldberg] just arrived at my front door," James Gordon confirms, playfully:

He knew I was not a scientist, but ... had spent a long time just advocating for environmental/water issues, social justice issues... He wouldn't take "no" for an answer. He'd already done the homework, and he got me to sign something saying "we're starting a non-profit organization." And it just started that day, and we built up a board of directors. I think we were both incredibly surprised and amazed with the immediate public response.

Not long thereafter, at some point early in 2007, James and Mark pulled together a small but mighty group of people around a kitchen table at someone's house in downtown Guelph, and the Wellington Water Watchers was born. As Mark Goldberg remembers it:

We decided we would try to start an organization that would make people aware of [the Nestlé issue]. We didn't know what to call it at the time... We did some web searches. So we called ourselves the "Wellington Water Watchers"... and paid for the website
"Wellingtonwaterwatchers.ca". So, at this meeting, a couple of things came out of it that were kind of precedent setting. Kind of the foundations of the organization.

"It didn't take too long before it wasn't just two lonely guys," recalls James Gordon. "It was a pretty viable organization pretty quickly."

Specifics of the timelines have since faded from memory, but all accounts are that events unfolded very rapidly as the group got together around that kitchen table and, calling itself the Wellington Water Watchers, launched a campaign beginning in the late spring of 2007 that would shape environmental politics in Guelph and area for the next decade and beyond.

**Kitchen-table organizing: Building a foundation**

By March of 2007, the newly formed Wellington Water Watchers had ramped up its activities, recruiting new members, making presentations at various events and community organization, organizing community meetings, outreach events and fundraisers, conducting legal research, advocating at the Ministry of the Environment, etc. The textbox below, an excerpt of just one volunteer’s calendar, is an indication of the level of activity around WWW in 2007.

While on the surface of the narratives shared by WWW's founders the formation of WWW seems organic...
and effortess, a closer look reveals considerably more complex and strategic organizational efforts.

For one thing, it was no accident that Mark turned to James Gordon for assistance as James was not only a friend, but also someone connected to others involved in social justice and environmental advocacy in the Guelph area. Mark's recognition of the opportunity to combine his scientific knowledge to 'playing rhythm guitar' to back James' proficiency in front of an audience was as strategic as it may have been convenient. When they convened a group for a kitchen table meeting in downtown Guelph, similarly, they didn't invite just anyone. The host of the meeting, for instance, was a friend of Mark's, but besides that was known in the community

### Excerpt from a WWW volunteer’s schedule, 2007

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mar. 1</td>
<td>12:00 p.m.</td>
<td>Mark Goldberg and Lorenz Calcagno have lunch meeting</td>
</tr>
<tr>
<td>Mar. 3</td>
<td>8:00 a.m.</td>
<td>Mark G. breakfast meeting with prospective members @ Eggcetera, Guelph</td>
</tr>
<tr>
<td>Mar. 21</td>
<td>1:00 p.m.</td>
<td>WWW planning meeting</td>
</tr>
<tr>
<td>Apr. 4</td>
<td>7:00 p.m.</td>
<td>WWW planning meeting</td>
</tr>
<tr>
<td>Apr. 10</td>
<td>7:00 p.m.</td>
<td>WWW at Public Meeting at Knox Presbyterian Church, Guelph</td>
</tr>
<tr>
<td>Apr. 25</td>
<td>6:00 p.m.</td>
<td>WWW pre Nestlé meeting at James Gordon's</td>
</tr>
<tr>
<td>Apr. 25</td>
<td>7:00 p.m.</td>
<td>WWW meeting with local environmental consultant &amp; Nestlé Waters Canada CEO</td>
</tr>
<tr>
<td>Apr. 27</td>
<td>11:00 a.m.</td>
<td>2000 permit opposition postcards delivered to [Guelph-Wellington Coalition for Social Justice contact]</td>
</tr>
<tr>
<td>May 2</td>
<td>7:00 p.m.</td>
<td>Maude Barlow presented by WWW at Knox Presbyterian Church, Guelph</td>
</tr>
<tr>
<td>May 7</td>
<td>7:00 p.m.</td>
<td>Lorenz makes presentation to Guelph City Council on behalf of WWW</td>
</tr>
<tr>
<td>May 12</td>
<td>8:00 p.m.</td>
<td>Stephen Fearing house concert [at Meg &amp; Lorenz’s]; Nestlé Waters Canada CEO invited and attends; Stephen takes a jab</td>
</tr>
<tr>
<td>May 14</td>
<td>11:00 a.m.</td>
<td>WWW meet with Theresa McClenaghan at Ministry of Environment (Toronto)</td>
</tr>
<tr>
<td>May 18</td>
<td>7:00 p.m.</td>
<td>WWW Planning meeting</td>
</tr>
<tr>
<td>May 28</td>
<td>11:00 a.m.</td>
<td>Lorenz and environmental lawyer Anna Lintner meet at 5 Queen</td>
</tr>
<tr>
<td>May 31</td>
<td>12:00 p.m.</td>
<td>WWW presentation to CELP [Grade 10] students</td>
</tr>
<tr>
<td>June 26</td>
<td>6:00 p.m.</td>
<td>WWW meeting at Mark Goldberg's</td>
</tr>
<tr>
<td>June 26</td>
<td>5:30 p.m.</td>
<td>WWW meeting at Woldond Park, Guelph</td>
</tr>
<tr>
<td>July 20</td>
<td>2:00 p.m.</td>
<td>WWW meet with Theresa McClenaghan at Ministry of Environment, Toronto</td>
</tr>
<tr>
<td>Sep. 5</td>
<td>6:00 p.m.</td>
<td>WWW meeting in a member's home</td>
</tr>
<tr>
<td>Sep. 12</td>
<td>7:00 p.m.</td>
<td>WWW Public Meeting at Norfolk United Church, Guelph. Selling memberships and Kleen Kanteens</td>
</tr>
<tr>
<td>Sep. 27</td>
<td>7:00 p.m.</td>
<td>Mike Nagy speaking on water issues at Green Party Office</td>
</tr>
</tbody>
</table>
for his experience in organizing political campaigns and for his role as the logistics coordinator for Guelph's Hillside Music Festival. With his related social capital and logistical skills, he had more to contribute than just passion.

Others at the table included a successful magazine writer and editor, and a rather politically-active graphic designer, both of whom proved to be quite instrumental, in those early days, in getting information out to the public. Present also was an environmental lawyer, and people like Arlene Slocombe, who would go on to be WWW’s Executive Director for most of the next decade, and Mike Nagy, a seasoned environmental "actionist" who had been involved in community action on water issues in Centre-Wellington Township, just to the north of Guelph, including a battle opposing a 2002 proposal for water bottling at a site on Middlebrook Road. Nagy had also been the federal candidate and a visible leader in the Green Party’s rise to prominence in Guelph, in the mid-2000s, and in that capacity had become vocal, among other things, in concerns regarding the Dolime Quarry, a limestone quarry located just outside of Guelph in Guelph-Eramosa Township. In late 2006, just as Mark Goldberg was making inquiries about Nestlé's water taking in the area, a report emerged showing that the Dolime Quarry also posed significant risk to local groundwater supplies, drawing City officials and local environmentalists and water conservationists, including Mark Goldberg, Arlene Slocombe, and Mike Nagy, into action. Like Arlene, the Dolime issue was not Nagy’s first experience of water activism, but it did solidify a role in the emerging Wellington Water Watchers. He went on to serve as a member of WWW’s board of directors and as its second board chair for the next decade.

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5 One example of their early work ended up as a full-page advertisement in the Guelph Tribune in mid-2007, and has uncanny relevance still. See the sample, "What's Wrong With This Picture", page 18 below or here: “What’s Wrong With This Picture” (Guelph Tribune, circa April, 2007)

6 See “2002: Early battle in Elora” for a summary of this battle.
Another person at the kitchen table meeting in the spring of 2007 was a member of the executive of the local chapter of the Council of Canadian (CoC). The CoC and their national Chairperson Maude Barlow had national and international recognition as a leader in water justice advocacy. In addition to its involvement in advocacy to protect public services and its direct ties to the community-based, decade-long fight to keep Walmart from establishing a presence in Guelph, the local chapter of the CoC already had an active local presence on water issues as well. In 2006, in fact, the CoC chapter executive found herself at the centre of a campaign to promote locally sustainable development and water use by opposing a proposal to build a pipeline to Lake Erie as a means overcoming the impediments to development posed by local water supply and discharge limitations.

Around the same time, the local chapter of the Council of Canadians also starting hearing concerns about Nestlé’s water-taking for bottling in Aberfoyle. The CoC chapter executive recalls that her involvement in WWW began sometime in early 2007 when a national member of the CoC who lived in Puslinch, near the Nestlé plant, approached her with a groundwater concern:

> She said "I know you are concerned about water, you need to pay attention to what is happening: my creek is dried up, and it's because Nestlé's are taking water" ... 

With mounting groundwater concerns in the community, the CoC decided to invite hydrogeologist Stan Denhoed to attend their next meeting to give them a "groundwater 101" presentation. His presentation reinforced their concern. Following the presentation, the CoC chapter executive recalls, "We were all irate."

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Shortly thereafter, on February 13, 2007, the emerging Wellington Water Watchers held a community meeting (by invitation) in the Cooperators' building in downtown Guelph. While billed as an opportunity to learn about Nestlé's permit application, people arrived equipped with information and updates to share about the Dolime Quarry and other threats to local water security as well:

_There is a meeting in the Cooperators Bldg next Tues re Nestlé's water-taking...I would like to hand out info on the Dolime permit since there will be a lot of activists there that weren't at COC._ (email correspondence between Council of Canadians Chapter members, February 10, 2007)

The meeting was well attended and there was a great deal of enthusiasm for the formation of a new group, the Wellington Water Watchers, to lead advocacy on these issues. According to one witness, in fact, a vote was held at that meeting to officially recognize the new organization and to confirm the name. Board members for the new non-profit organization were recruited from amongst those already involved, and before too long, a process was initiated that would lead to the incorporation of the Wellington Water Watchers in April 2008.

**Dolime Quarry**

While inspired to form by the discovery of Nestlé's local water taking for bottling, among the first actions of the emerging Wellington Water Watchers was to join the City of Guelph in drawing attention to the risks to Guelph's drinking water supply posed by the Dolime Quarry, located along the City of Guelph's western border in the neighbouring township of Guelph-Eramosa. Owned since 2002 by River Valley Developments, a subsidiary of the Carson Reid Ltd., and excavated since 2005 by James Dick Construction, what became known as the "Dolime
“Quarry” had been operating since the early 1850s. In 2006, as Mark Goldberg began talking to people and asking questions about Nestlé, water-taking permits and how that all works, news became public of James Dick Construction’s plan to apply in February 2007 for the permits needed to nearly double the rate of aggregate extraction at the Dolime Quarry. Not only would this plan involve an acceleration of water removal from the gravel pit, but evidence began to emerge – eventually published in the 2008 Ontario Geological Survey – that the quarrying activities had created a rupture in the aquitard (a protective layer of hard stone covering the aquifer), thereby exposing nearby wells upon which Guelph relies for drinking water to contaminants trickling in from the surface.

By this time, Mark had been appointed to the Lake Erie Source Protection Committee (LESPC) as a "public interest" representative, alongside representatives from First Nations.

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8 For details and sources, see Piper, L. (2007). Quarries and quarrymen: The limestone industry in Guelph. Historic Guelph, 46. (Publication of the Guelph Historical Society)
industry, and municipalities, including the City of Guelph. The City had expressed its concerns to the provincial government about the risks posed by excavation and dewatering in the Dolime Quarry from as early as 2003, culminating in a series of communications between the Mayor of Guelph and the Ministries of Natural Resources and Environment in the fall of 2007. From his position as "public interests" representative, Mark repeatedly raised the issue at the LESPC, and from the emerging platform that would become the Wellington Water Watchers, he joined others in raising awareness of the issue and calling for action at a community level. The controversy generated considerable discussion and activity in the community, bringing a whole other element of groundwater protection to the attention of the emerging Wellington Water Watchers.

The Dolime Quarry issue is still unresolved in 2019, and the Wellington Water Watchers has remained active on that issue over the interim. As the timeline for comment and immediate

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9 According to a letter from the Office of the Mayor of Guelph to the Ministry of Natural Resources Guelph District Office, dated December 22, 2008, the City of Guelph wrote to the Ministry of Natural Resources (MNR) on November 29, 2007 to formally request "a technical review of the operation and licensing of the Guelph Dolime Quarry" due to "the City's belief that the current quarry operation threatens and endangers the City's water supply..." On November 4, 2008, the MNR's District Office replied with a review finding that the City's wells will not be adversely impacted by the aggregate operations in the Dolime quarry. By December 2008, however, according to the letter from the Mayor's office, new evidence had surfaced suggesting that "the risks to the City's water supply have increased substantially as a result of the excavation by the quarry of the protective layer." In the December 22, 2008 letter, therefore, the City requested that (1) the MNR "immediately limit the extent of the extraction of the quarry...", (2) the MNR and Ministry of Environment "re-review the potential impacts of the quarry given the new and additional information obtained from the OGS [Ontario Geological Survey]...", (3) the MNR add a condition on the quarry's aggregate license to require mitigation...", and (4) that the MNR notify the City of any proposed changes to the blasting program in the quarry. A subsequent letter was sent from the Mayor's office on July 28, 2009, reinforcing the request for an updated technical review and demanding that the record "clearly state that the City's aquifer is now exposed in the quarry," and that "the previous November 4, 2008 opinion can no longer be supported." These communications continued until the City of Guelph eventually filed leave to appeal a water-taking permit for the quarry on February 13, 2013.


11 While WWW's Nestlé campaign that became WWW's most publicly recognized work, work continued on the Dolime Quarry file with WWW board members and volunteers continuing to gather information,
action on the Dolime Quarry applications came to a close in early 2007, however, WWW's focus turned quickly back to Nestlé. With Nestlé's permit for water taking in Aberfoyle due for renewal in April, only a couple months away, WWW knew would need to act fast.

**The 2007 Nestlé Campaign**

Beginning at that early kitchen-table meeting where the Wellington Water Watchers got its name, the group began right away to develop a strategy to protect the community’s groundwater.

One step the group took early on was to develop a clearer understanding of the technical aspects of groundwater taking and the associated risks. For this, the group turned to a number of sources, including Dr. Hugh Whiteley, a retired water resources engineering professor at University of Guelph and a long-time local environmental advocate. Nagy had known Hugh since the early 1990s and he knew that Hugh would be helpful in explaining the implications of groundwater taking to them. With Hugh’s input, the group was able to crystallize a few key issues for their campaign against Nestlé's water-taking for bottling. For one thing, although the track developments, raise public awareness, and express concerns. Activity on this file spiked in late 2008 following the publication of evidence showing the aquitard breech in the quarry. The company was forced to respond, and in 2011, WWW submitted comments to the Ministry of Environment (MOE) critiquing a management plan proposed by the quarry owners to mitigate the risks to source water at the quarry, as did the City of Guelph. In the same year, Ryerson film student Kristy Neville directed a 12-minute documentary entitled "Dolime Dilemma: Waterproof?" which, featuring WWW volunteers, summarized the core issues. Despite the objections, in 2013, the MOE enabled ongoing excavation at the site with the approval of a permit to take water amendment. Dissatisfied with the lack of attention to the identified risks, on February 4, 2013, the City of Guelph filed for leave to appeal the permit amendment. On Feb. 13, 2013, WWW brought together the local candidates of all four main provincial political parties for a conference designed to show all-party support for the City's application. On May 2, 2014, the Environmental Review Tribunal granted the City leave to appeal the amended permit to take water granted to the quarry operators, and eventually determined that the decision to amend and extend the permit to take water at the Dolime quarry was unreasonable and could result in significant environmental harm. As of August 2019, the case remains unresolved and, since 2014, locked in closed-door legal process as the parties negotiate a resolution.
The aquifer Nestlé was drawing from is rather large, in Hugh’s analysis, no one knew exactly how much water was in it or at what rate the water in it replenishes itself. From this realization emerged an analogy that can still be heard, in different forms, in WWW networks in 2019: “it’s like writing a cheque without knowing how much money is in your bank account, how much or when more much money is coming in, or how many other cheques are outstanding,” as Arlene Slocombe put it.

Around the same time, in early 2007, a WWW volunteer was alerted by a friend of an upcoming open house at the Nestlé Waters Canada national headquarters and bottling plant in Aberfoyle. Unable to contain her curiosity, and seeing it as an opportunity to gather more intel, the WWW volunteer and her husband attended along with hundreds of other guests. After listening to a guide boast about the plant’s cleanliness and organization, groups of approximately 25 people were brought through one of numerous warehouses and mechanized production lines. As the volunteer recalls it:

*I had never been in a warehouse that big before… And it wasn't just one warehouse, it was warehouse and warehouse and warehouse; it was a good half hour to walk through.... and towering piles of these plastic bottles all held together by plastic film ready to ship out.*

As discreetly as she could, in those days before smart phones, the WWW volunteer took out her camera and snapped some photos. She was shocked by the massive operation and took as many pictures as she could. At the next WWW board meeting, the volunteer passed the pictures around. They too were shocked by the scale of the operation. Those very same photos were then used on the first website for the Wellington Water Watchers.

Bolstered by all they were learning, the Wellington Water Watchers got to work immediately in raising community awareness of the Nestlé permit issue through a series of town
hall meetings, by setting up a booth and talking to people at the Guelph Farmers' Market every Saturday morning, by speaking at community events, and through media advocacy. These were low-budget days, where those involved pitched in to cover the costs of printing, advertisements in the local paper, and other incidentals. “The biggest sort of resource was people's time,” one founding volunteer told us. Nonetheless, at some point in this early phase, as both momentum and costs started to add up, the group decided to sign people up as members as a means of keeping track of interested people and as a way to raise some funds through a $10 membership fee:

*It wasn't like we had to do fundraising or anything like that. I think we actually started a membership. I can't remember how all of that went originally but through membership came a fee, came some fundraising to pay for events, you know the minutia.* (founding volunteer)
"We had a post office box where you could send in your ten dollars become a member and we had quite a few people join," another founding member recalled, "I think about a thousand people."

Associated with the membership drive, also quite early on ("right away," one founding volunteer said, maybe even at the initial kitchen table meeting), Arlene Slocombe proposed the idea of distributing re-fillable, stainless steel water bottles as an alternative to single-use plastic water bottles. The group embraced the idea as an opportunity “to be ‘pro’ something”, as Nagy put it, rather than just anti-Nestlé, and as a visible representation of what WWW stood for. Someone found a source and ordered 200 of them with the “Wellington Water Watchers” and "Guelph's water: yours to enjoy, conserve and protect" printed on them. The bottles were used to recruit new members. Anyone who signed on as a member and paid the membership fee was given a bottle. But the bottles were also used as display items on tables at community events where they generated visibility, conversation and engagement. Plastic Nalgene refillable bottles were fairly common already among the environmentally-minded, but stainless steel water canteens were quite new and quickly became quite popular. Before long, the WWW bottles became a ubiquitous, visible symbol of an emerging local movement to assert sustainable, public water use against commodification and plastic. When the first 200 were gone, WWW ordered more.
In their inquiries into the process through which companies like Nestlé and other parties receive permits for large-scale groundwater taking in Ontario\textsuperscript{12}, WWW had discovered that the submission of an application for a permit or permit renewal would trigger a 30-day period in which the public could comment on the permit. When Nestlé Waters' application was posted to the Ontario Environmental Registry on April 2, 2007\textsuperscript{13}, the Wellington Water Watchers was ready. As a primary tactic, WWW decided that they would organize a postcard campaign to try and swamp the Ministry Environment with letter of opposition to the permit application from as many people in Guelph and Wellington County as possible. “We are going to flood them,” a founding volunteer remembers WWW saying to each other, “We are going to let them know that people don't like this”. On the eve of the opening of the public comment period (April 11-May 11, 2007), WWW rented a church basement and held a public meeting to launch the campaign\textsuperscript{14}.

The response from the community was fast and strong:

*People were outraged and so it certainly wasn't hard to find allies or hard to find people who agreed either the issue would have been fine, people who had time or energy to jump on board as well, because certainly my work later in the organization it was hard to find any body who was sort of pro-water taking or pro-Nestlé's. It was pretty easy to find people who would stand up against it.* (WWW founding volunteer)

"People were receptive for sure," recalls Mark Goldberg, "And it was exciting because it made us feel 'oh, there's an audience for this; maybe we have a chance!'"

\textsuperscript{12} According to Section 34 of the *Ontario Water Resources Act* (1990), anyone taking more than a total of 50,000 litres of water in a day in Ontario is required to obtain a permit from the Ontario Ministry of Environment, Conservation, and Parks.

\textsuperscript{13} EBR Registry Number: 010-0224; Ministry Reference Number: 0275-6ZSQSL

\textsuperscript{14} It was at these public meetings that a tradition began of opening WWW meetings with a “toast to water” – a tradition that is still practiced at WWW Annual General Meetings in 2019. Mark Goldberg describes its origins: “We would start with a toast. Everybody had a glass of water we would just toast water and thank that water serves our-all our biological needs and the fact that we need water for life.”
To promote participation in the postcard campaign, WWW reached out to partner groups and networks and provided them with postcards to distribute, and they ramped up their own outreach. “Whenever there was an event and the public,” Mark Goldberg recalls, “we would set up a booth, we would have stainless steel water bottles for sale for five bucks, along with postcards for people to sign. If you bought one, you would never have to buy a single use disposable plastic bottle again.” WWW volunteers went wherever they could find an audience and recruited other volunteers to sell bottles and take bundles of postcards to circulate through their networks too. Before long, the stainless steel bottles bearing WWW’s logo became a must-have item for anyone with environmental or politically progressive leanings in Guelph and area. The strategy was simple and it was very grassroots. As another founding volunteer described it:

*It was literally just finding the places in the community... I mean, we were just looking for willing community members to put their name and comments on a card. It was about as basic as you can get. I mean, I think I bought the paper [for the postcards] myself!*

To reinforce the outreach, WWW created flyers and information bulletins. At one point they took out a full-page ad in the free, bi-weekly *Guelph Tribune* (see next page). They organized entertaining events designed to raise money and awareness, and to assemble a crowd of postcard signers, like parties at individuals’ homes, a rally with entertainment at a local brew pub, a golf tournament, and at least one house concert.

15 Author’s note: My introduction to WWW and the Nestlé Campaign was at my children’s school bus stop in May 2007, where a neighbour – a friend of Arlene Slocombe, Mike Nagy and James Gordon – was talking up the campaign and handing out postcards.
WHAT'S WRONG WITH THIS PICTURE?

The Province of Ontario allows Nestle Canada Inc. to take 3.6 million litres of water every day from the public drinking water supply, which will not last forever. Nestle pays nothing for the water, which is sold in plastic bottles for more than the price of gasoline. Much of it leaves Ontario.

1. Growth threatens our supply of drinking water. Guelph is growing faster than most Toronto satellite cities because it's a desirable and still-affordable place to live. The provincial government has projected that we will have as many as 150,000 additional residents within 30 years. That will more than double our water-taking needs. The present wells will not be able to meet the demand. Then what? Water conservation is the only prudent choice.

2. Nobody knows how much water we have. We don't know how much water there is underground. The Ontario Ministry of the Environment, which issues Permits To Take Water, is supposed to operate by the Precautionary Principle—so if there are limits, unless you have proof otherwise. But they are giving away our grandchildren's drinking water as if there are no limits.

3. Nestle is permitted to take 3.6 million litres a day. Nestle Canada Inc. operates a water pumping and bottling plant in Aberfoyle. Under the contested provincial water-taking permit system, the company is legally allowed to take 3.6 million litres a day from our aquifer. It can also take 1.1 million litres a day from the Hillsburgh area. That water is trucked to Aberfoyle for a total of 4.7 million litres each day.

4. They pay nothing for it. Under current regulations, Nestle pays nothing for the water it takes and sells. There is a very small permit fee. That's it. On April 3 the provincial government introduced a bill that will impose a charge on water bottles. The cost to Nestle for the daily take of 4.7 million litres will total $75/20 per day. Using a conservative estimate of $10 per litre, the profit on that water—which is a public resource—would be over $40 million. Each day.

5. A crucial principle of water protection is being ignored. The key principle of groundwater protection is: don't remove water from a watershed, Justice O'Connor, in his report on the Walkerton tragedy, said that water should be managed on a watershed basis. When water is removed from a watershed, the water table gradually declines. Wetlands dry up, habitats are lost, and drinking supplies are impoverished.

6. The Ontario government isn't protecting our water supply. At a time when everyone is worried about long-term water supply, the provincial government has allowed Nestle to take more than one billion litres of our drinking water for free. When Nestle applied to renew its permit in 2005, the Township of Puslinch asked the government to increase the amount that can be taken under the permit. That request was denied. Obviously, the spring-fed groundwater that flows into Mill Creek, which runs within 300 metres of the Nestle bottling plant, gets sucked back into the ground when Nestle is pumping. This "low reverses" is similar to the situation that caused the Walkerton tragedy when surface water contaminated groundwater.

7. Nestle plans to dramatically expand its bottling plant this year. The thirst for profit is unquenchable. Nestle has applied to Puslinch Township to increase its plant size by almost 100 percent. It already occupies 40,000 square feet. The additional space will make the plant huge. Most multinational corporations have one overriding goal: relentless growth. They recognize no limits. All natural systems have limits. That is a contradiction that must be addressed before it's too late.

8. The waste from plastic water bottles is obscene. Waste is a huge and growing problem in Ontario. Landfills are overcrowded. Incineration is a noxious and expensive alternative. Packaging is largely to blame. Plastic water bottles are among the most unnecessary and wasteful packaging—used once then thrown away. Nestle creates millions of plastic water bottles per day. Many end up in landfills. They have almost no recycling value.

9. Paying for water that is a public resource is wrong. The groundwater in the Guelph-Ambleside aquifer belongs to the people who live in this region. Not the government. Not Nestle. It belongs to us. And we will need it for many generations to come. Paying a large foreign corporation for the privilege of drinking our own water from throw-away plastic bottles seems very wrong. If you drink Nestle's water, you are paying more than 1,000 times what tap water costs. Typically, bottled water costs more per litre than gasoline.

10. Consuming water from plastic bottles is a health risk. Most people think bottled water is healthier. Not necessarily. Chemicals leach from the plastic bottle after long storage or in warm conditions. One of these, Bisphenol-A, is an endocrine disruptor at low doses. Besides, what's the point? The water in Nestle's bottles comes from the same source as our tap water in Guelph, except this is containerized and ours is chlorinated. Leave the tap water in a pitcher overnight and the chlorine evaporates. Your money is wasted when you purchase bottled water.

WHAT YOU CAN DO - 3 THINGS:

1. TELL the Ontario government that you object to the renewal of Nestle's Permit to Take Water in Aberfoyle. Visit www.WellingtonWaterWatchers.ca and briefly comment on the Provincial Environmental Registry before May 2, 2007. Please act now. That deadline is coming fast!

2. JOIN Wellington Water Watchers. Send $15 along with your name, address, and e-mail address to Wellington Water Watchers 9B, Box 2038, Guelph ON N1E 6Y8 info@wellingtonwaterwatchers.ca

3. DONATE. Help us do our work. Send your cheque to the address at left.

FREE! With every membership: Klean Kanteen non-leaching stainless steel water bottle.

Full page advertisement in the Guelph Tribune, circa April, 2007
As the campaign ramped up, WWW also entered into dialogue with the CEO of Nestlé Waters Canada. At one point, Nestlé hired a local environmental consulting group to help mediate the conversation between Nestlé Waters Canada and WWW. While clear that the parties held opposing perspectives, WWW described the Nestlé CEO as a friendly and reasonable person. One early volunteer shared this anecdote, for example:

I did a concert here at my house with musician Stephen Fearing. Tom King, the author, might have been here as well. And I invited the president of Nestlé [Waters Canada] to the event. And [laughter] and she came! Oh yeah, I mean I'd had meetings with her already – a bunch of us had. And you know, she's... a nice enough person and very matter of fact, and very clear with us saying that she has to do her job, her job is to sell bottled water and kind of this is some of the things we wanted and whatever are, are in contradiction to that and she has to fight against that it wasn't personal at all.

Mark Goldberg remembers the Nestlé CEO levelling with him, explaining that "If I stopped pumping and bottling groundwater, they'd just fire me and hire someone else to do it."

Ultimately, the dialogue with Nestlé Waters Canada went nowhere. The relationship with the Nestlé executive soured a bit as Fearing, expressing the growing resentment in the community of Nestlé's presence there, made a sarcastic comment from the stage directed at the CEO, and as, with the growing momentum of the campaign, the positions of the opposing parties became increasingly polarized. In the midst of the campaign, moreover, the CEO resigned from her position and was replaced, ending that relationship.

In terms of raising awareness of the issue, WWW's campaign was a great success. Local media picked up the story with headlines and editorial cartoons. On Earth Day 2007 (April 23), Federal Green Party leader Elizabeth May made a special trip to Gueph to lend her profile and voice to the WWW's campaign. Shortly thereafter, on May 2, 2007, the local chapter of the Council of Canadians packed a church hall with an audience to hear CoC National Chair (and
soon-to-be Special Advisory to UN
Special Advisor on Water) Maude Barlow
to provide some big-picture context and to
rally the community.

That summer, the Hillside Music
Festival raised the bar for all
environmentally-friendly festivals by
– going plastic-bottle free, providing instead
– with the help of volunteers from WWW
– free, public tap water brought in by
tanker truck. Clearly feeling the pressure,
Nestlé Waters Canada responding by
holding its own community meetings, taking
out advertisements in the newspaper, and sending promotional flyers to every household in
Guelph in an attempt to allay fears and undermine opposition.

In terms of flooding the Ministry with letters of opposition, too, the postcard campaign
was a resounding success. Exactly how many postcards were printed and what happened to them
all was not carefully tracked. Many were mailed in directly to the Ministry. Many more were
signed and returned to WWW:

*On the day that the application comment period closed, Mark Goldberg recalls, I drove to Hamilton to the Ontario Ministry of the Environment's district regional office with boxes and boxes of these post cards that had been filled out. They were overwhelmed.*

At least 10,000 postcards were printed and distributed, according to one lead volunteer of the
time. What is known for certain, however, is that the Ministry of the Environment (MOE)
received over 8,000 submissions opposing the Nestlé permit application that year, surpassing any previous opposition ever mounted against a permit posted to the Environmental Registry before:

_They had only ever had a couple of hundred comments on these type of permits_, Nagy explained. _So it kinda blew the doors off the numbers and put it on the map; it showed that people were outraged by [the permit application]._

In addition to the sheer number of responses, WWW and some other permit opponents pointed out in their submissions to the MOE evidence suggesting that Nestlé’s water taking in Aberfoyle might causing some reversal of water flow in the nearby Mill Creek. The evidence had been buried deep within a consultant's report on Nestlé’s water taking in Aberfoyle, but discovered upon close analysis by Hugh Whitely. The response was strong enough that decision-making on the permit stalled.

As they awaiting the Ministry’s decision, WWW regrouped, retooled, and continued outreach and media advocacy to keep the issue visible. The process of incorporating as a non-profit organization had already begun – "right off the bat," according to Mark Goldberg – in order to "limit our own individual liability; and... we had a bank account and so we could write cheques on behalf of the Wellington Water Watchers; we had to get insurance and all that, so we needed to incorporate." With a fall 2017 Annual General Meeting doubling as campaign rally and an opportunity to formalize board members and objects of incorporation, that process began to take shape. Also in the fall of 2007, WWW took advantage of a provincial election to maintain visibility of the Nestlé’ issue and to try and establish it as an issue for local candidates:

_We did do a bit of a signage campaign around an election period of that time... [although] we were trying not to be overtly political... we did agree that we would put out_
lawn signs during lawn sign season about water and about asking your candidates their views and where they stood on this. So we were trying to make it an election issues.

A decision is rendered

Finally, on April 17, 2008 – a full year after the application was submitted – the MOE posted its decision to the Environmental Registry. In spite of all the opposition in the community, and despite WWW's best efforts, Nestlé would get its permit renewal.

The public comments mobilized by the WWW certainly had slowed the decision-making process down:

Ministry scientific staff who have expertise in water resource management thoroughly reviewed the Puslinch PTTW renewal application and considered all comments before making recommendations. The ministry delayed its decision in order to carefully assess the potential surface water impacts in Mill Creek and make a sound scientific decision on the permit renewal. (MOE Newsroom backgrounder, April 17, 2008)
To their surprise and great disappointment, however, WWW was to learn that in making its decision, the MOE disregarded the many thousands of WWW postcard submissions as "beyond the scope" of the review process:

/Public comments submitted to the Ministry of the Environment as a result of Environmental Bill of Rights (EBR) posting (Ref. No. 010-0224) have been assessed by the Ministry. The comments which are considered technical and related to either hydrogeological or surface water issues have been considered. Comments which relate to concerns with MOE Legislation and/or Policy are beyond the scope of the review of this renewal application. (Instrument Decision, EBR# 010-0224; April 18, 2008)

Nagy recalls the frustration felt by all involved in WWW at the time:

/We felt super disillusioned about that process and really learned that that process will only truly take comments of a technical nature. So really only from a hydrogeologist; very few people have that capacity to have that kind of information. It kind of felt like it was a bit of a window dressing for process that didn't really have any impact./

Regardless, while the final decision was not the permit denial that WWW and its thousands of supporters wanted, the community action surrounding did win some significant concessions. "Numerous requests for a two-year term" rather than the five-year term requested by Nestlé, in conjunction with indications of negative hydrogeological impacts of the water-taking on nearby Mill Creek led the MOE to limit the term of Nestlé's permit to a two-year period and to include "additional and more comprehensive monitoring conditions" on the permit, "such as increasing the frequency of measurement and the number of gradient monitoring locations as well as habitat and ecological studies" (MOE Instrument Decision, April 18, 200817):

As the Nestlé water taking has the potential to remove water from Mill Creek, a precautionary measure of additional monitoring and testing is required as part of conditions.

The permit contains extensive monitoring conditions for both surface water and groundwater. It requires a prolonged pumping test during summer to confirm that previous surface water impacts are not seasonal and to refine and define the zone of groundwater influence from the pumping. Additional surface water monitoring is required. The permit also requires the company to conduct and report on biological inventory in the Mill Creek and to prepare and implement a stream habitat mapping plan. (MOE Newsroom backgrounder, April 17, 2008).

Though inadequate in the view of WWW, the monitoring requirements placed on Nestlé's water-taking in Aberfoyle as a result of the public outcry, in conjunction with the technical submissions, have remained a permanent part of all subsequent permits.  

What did the campaign accomplish?

WWW and its many supporters were understandably disappointed that their efforts did not result in the denial the Nestlé permit renewal request. Their efforts, nonetheless, did trigger the imposition of new monitoring requirements, noted above, which set a precedent for future permit applications, and the campaign certainly contributed to some important related developments such as the Hillside Music Festival's decision to go water bottle free and a (failed) proposal to the City of Guelph to pass a motion ending the sale of bottled water in its buildings.

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18 Recognizing the futility of resisting or averting the monitoring requirements imposed upon them by the MOE, Nestlé very quickly adopted the monitoring in its public relations and communications as evidence of the company's proactive commitment to stewardship. See for example "A rare look inside Nestlé's Aberfoyle water bottling plant" (Colin Butler, CBC News, Nov. 1, 2016), or "Is your water use sustainable?" (Nestlé Waters Canada, nd)

19 Environmental assessment and monitoring requirements for permits to take water for bottling, in fact, were augmented again in 2017, following another round of community mobilization, this time aimed bringing about a permanent end to permits to take water for for-profit bottling in Ontario: Say No To Nestlé.
and facilities. Both of these developments have proven prescient as other festivals, events, and cities have subsequently started following suit.

Perhaps more importantly, however, the campaign brought water bottling and water governance issue into mainstream consciousness in Guelph and Wellington County, reaching out beyond the established networks of environmental activism to engage a broad base of local residents:

... that face to face contact we had with a lot of community members; a lot of typically not engaged activists ... not your usual suspects. People just raising their families, going to work, and just coming home and making sure the kids are fed, and watching their show and getting to bed. When those people were on-side and willing to put their name to paper because they saw it as "ya that's wrong" ... that was a great, a great connection.

(founding volunteer)

In the process, the campaign established WWW as a leading voice in local environmental politics. As one founding member put it, "It established WWW as a local voice. That was the biggest win, I would say." "We shot into the sky with public awareness" said another early volunteer, "And Wellington Water Watchers name was known a lot of places very quickly."

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20 In summer 2012, activist Robyn Hamlyn, then a high school student from Kingston, Ontario, made presentations to the City of Guelph Planning & Building, Engineering and Environment Committee (July 16) and to Guelph City Council (July 23) requesting that Guelph become a "Blue Community" (Council of Canadians) by passing three resolutions concerning public water protection. John Challinor II, then Director of Corporate Affairs for Nestlé Waters Canada, also delegated to the Planning & Environment Committee to enter Nestlé's objections into the public record (see Planning & Building, Engineering and Environment Committee, July 16: Addendum). On July 23, 2012, Guelph City Council passed Blue Communities resolutions #1 declaring water a human right and #3 opposing privatization of water and wastewater services, but did not entertain a motion on Blue Communities resolution #2 involving the banning of bottled water sales at City events and facilities (Council Minutes, July 23, 2012, pp. 237-239).

"The City does not have a policy in place to prevent the use of bottled water in its facilities. A number of City facilities have water fountains and re-useable bottle water filling stations to encourage the use of tap water and reusable containers. City facilities sell bottled water in vending machines and at concession counters among other varieties of bottled beverages." (City of Guelph website, "Questions and answers about Nestlé", November 30, 2018).
Although Nestlé continues to pump and bottle water and distribute millions of plastic bottles into the environment everyday in Wellington County, Ontario, from these beginnings WWW has maintained and continued to build its political influence locally and at the provincial level, and has earned international recognition as leader in the Canadian front in the battle against water bottling²¹.

**The next chapter: Retooling and refocusing**

Those associated with WWW learned a lot over the course of the campaign, and the campaign taught local activists some valuable lessons. They learned, for instance, about the reality of activist burnout. As one founding volunteer described it,

*Those early days were very challenging... For 2007, 2008, 2009, I was working almost fulltime as a volunteer for the Water Watchers. That was a problem, I had a business, my partner was very, very generous in letting me do this kind of thing. You know, I eventually burned out after about five years I burned out and I had to sort of step back.*

Relatedly, they learned about the importance of building community and having fun. “*We need to celebrate more,*” said another founding volunteer. “*You have to be able to celebrate your success,*” said another. “*You’ve done this, you’ve done that. This didn’t work out. That’s still going ahead. You have to be able to be able to pat each other on the back for that.*” “*In the early days,*” another early volunteer recalled, “*We would have that – we would have a bit more grass rootsy fun than we do now.*” As Mark Goldberg recalls,

*I had read Elizabeth May's book, How to Save the World in Your Spare Time, and she stressed that you need to make activism fun. So we focused on that, on keeping everyone*

²¹ For a succinct but comprehensive overview of the battle over water bottling in Wellington County, Ontario (2008–2018), including links and archival items, please visit [www.wellingtonwaterwatchers.ca/timeline](http://www.wellingtonwaterwatchers.ca/timeline).
engaged. So we would have potluck dinners for meetings. It wouldn’t just be a meeting, we would make it a social event too.

“It's important work,” one early volunteer said, “But it's more fun and they’re great people that you are working with. To be truthful, that's why you don't stop.”

Early WWW activists learned a great deal about groundwater systems, and about Ontario’s Permit To Take Water system and other aspects of water-related policy. They also experienced firsthand the influence that a small group of active people can have, particularly when strategically formed, and about the excitement and power of grassroots mobilization.

I think [our campaign] was just rallying a voice. We were all amazed at the response... It was much greater than any of us expected. And I think it was due to our area, to where we are located, and that... this is happening in other places around the world too.

(founding volunteer)

On the other hand, they also learned some hard lessons about political process and strategy. It was a serious “reality check” for the group, one early WWW volunteer recalled,

...that the legislation didn't really have anything in place for the kind of input we were giving... So our process of showing the greatest opposition ever, really didn't change anything about the permit process at that time and or the business model and operation of Nestlé's taking water.

Looking back, another early volunteer described what they now see as a naïve assumption, underlying the 2007 campaign, that if they simply confronted the Ministry with a strong and clear “hey, we don't like this, don’t do it” that the response would be “Okay, we’re here to represent you!” “Unless you have so much data,” another WWW activist said, “Endless amount of data, showing smoking guns and drawdowns of the wells and all sorts of stuff—even, then ... business as usual carries on.” This lesson would inform future tactics, and shapes WWW’s strategy today (2019).
WWW continued to oppose Nestlé permit renewals, but having been unable to stop the 2007/08 permit renewal, WWW leadership decided that a whole other approach was needed. Incorporated as a non-profit organization, WWW was now eligible for grants from environmental and other non-profit funders. Having come to understand over the course of the campaign how little people actually knew about their local water supply, WWW leadership decided to apply for funding to support the design and delivery of a water education program and, thinking of how to maximize long term impacts, they decided on education targeting children.

_We realized, in the middle of that campaign, that there were a lot of folks around here who aren't very educated about where our water comes from. So we decided we needed to do an education piece. We also decided that the focus should be kids, because kids learn things; they'll bring it home and inform their families._ (founding volunteer)

In 2009, with funding first from the Ministry of Environment "Go Green Fund" and then from Ontario Trillium Foundation, WWW launched the Message in The Bottle Program\(^\text{22}\), which took water stewardship information and ideas out to grade 6 students throughout the Upper Grand District School Board. In the program, each student received a stainless steel water bottle with a bookmark inside, covered in water conservation messages. WWW purchased 25,000 water bottles, with a bank loan that Goldberg personally guaranteed. Over the length of the program, the cartons of water bottles were stored in his garage, then the treasurer's garage, and then the garage of another board member, until they were gradually all distributed. With the infusion of funding, not only did WWW deliver water stewardship education to some 20,000 children, but for the first time WWW was able to rent office space and hire an Executive Director (Arlene

\(^{22}\) Find more information on Message in The Bottle on the interactive timeline of [Groundwater Protection in Wellington County](http://www.groundwaterprotection.com/).
Slocombe) and project staff, and thereby to generate greater visibility and a solid reputation, build some enduring (if precarious) networks and organizational capacities, and generate the foundation of volunteer and community momentum that underpins the organization and its campaigns to this day.

With the completion of *Message in The Bottle Program* in 2011 and the end of the associated funding commitment, WWW again entered a new chapter in its history. The office was vacated and staff contracts were not renewed. New board members came on board as the remaining members of the founding board completed their terms. Priorities shifted and the activity level waned, for some time. The foundation had been laid, however, and WWW adapted and upon that foundation renewed itself with even greater strength through the latter half of the decade, all the while punching above its weight in its advocacy on local source water protection.

**Conclusion**

When Mark Goldberg first noticed the trucks pulling out of the Nestlé Waters plant in Aberfoyle in late 2006, WWW did not yet exist. Within months, WWW was front page news in Guelph, leading a campaign that mobilized over 8,000 people engage in action, made Nestlé Waters Canada and the Ontario Ministry of the Environment sit up and pay attention, and set the course for local grassroots water protection for at least the next decade.

WWW has faced some significant challenges at different points in its first decade of existence. As a volunteer-based organization with no core funding and limited access to funding from charities and foundations, scaling up and sustaining its impact has proven difficult at times. Ultimately, nonetheless, from the early foundations of the organization's formation, its initial actions regarding the Dolime Quarry, and its first major campaign opposing Nestlé's water bottling operations in the county, WWW has emerged as a formidable and internationally-
recognized leader in the battle against corporate water bottling in Ontario, and an active supporter of community engagement and advocacy around development planning, aggregate quarrying, and a variety of other threats to long term water security in Wellington County and beyond. More than a decade after that initial campaign, its networks and influence continue to grow.

About the authors

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