

& Determined Water Progress



Rooted in the post-war dreams of American Presidents Roosevelt and Johnson, the international treaty that governs the Columbia River is unlike any other trade agreement in the world. And for the first time in its 50-year history, it is up for renegotiation. It's a colossal contract between the Kootenays, Canada and the USA, in a world more hungry than ever for the power of water.

By Bob Keating

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MET CHRISTOPHER SWAIN 15 years ago on

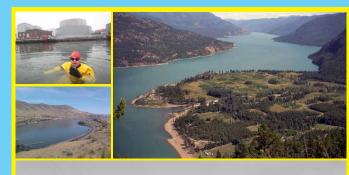
NET CHRISTOPHER SWAIN 15 years ago of thores of Columbia Lake at Canal Haus, where the Columbia Thores of Work 2000 kilometre journey to the Pacific Ocean. The yaropolabic journey ahead of him. He struck me as one of thore inprobable journey ahead of him. He struck me as one of thore inprobable journey ahead of him. He struck me as one of thore inprobable journey ahead of him. He struck me as one of thore inprobable journey ahead of him. He struck me as one of thore inprobable journey ahead of him. He struck me as one of thore inprobable journey and the struct me and the struct

OF WATER LEVELS IN ITS OWN BACKYARD. THE COLUMBIA RIVER TREATY WAS THE GREATEST SACRIFICE EVER MADE ON BEHALF OF THE PEOPLE OF THE KOOTENAYS. IT'S ALSO AN AUDACIOUS



would take him past the outflow of pulp mills and lead smelt-ers, the toxic pesticides of industrial agriculture and the sewage of Lows and cities. The set of the sewage of the sewage of the sewage of several set of the sewage of the sewage of the sewage of contaminated nuclear-waste dumping ground. The Columbia River Swain drank so agerly from would eventually give him seven ear infections, four respiratory infections and countless skin rashes. Twice his lymph nodes swelled to the size of Ping-Pong balls. "Bear in mind, I'm rinsing my mouth out and garging with a hydrogen pervaide solution every 20 minutus before I took as in of water or bite of a power bar," he would say in a later interview. Of course, Swain couldn's wint the river without mumerous on the planet. There are 14 on the main stem of the Columbia alonc—three of those in Canada – backing up the second largest North American river to drain into the Pacific (the Yukon River is

ARRANGEMENT AMONG ALLIES With Canadian Prime Minister Lester Pearson to his left, US President Lyndo Johnson ratifies the Columbia River Tree S President Lyndo Columbia River Tre ce Arch Park in at a cer Blaine 1064





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FIRE AND WATER page 84: Rose Rohn in advance of the Arro She was a th the w

Page 83: A fraction of the d

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US President Richard Nixon helps with a ceremonial cement pour during construction of the Libby Dam, September 25, 1971.



A BRIEF 17-MILLION-YEAR HISTORY OF THE COLUMBIA RIVER. BY CLARE MENZEL

The intersections to be a split of the mighty columbia and the land-created at the same time by a split from above. In geologic terms the river and the land were created at the same time by massive, opward movements of the earth below. The Columbia's geologic future is a split of the same time by a split of the outpound of the same time by a split of the same time by polyhold with the split of the split of the split of the split outpound of the split optimised of the split of the

. e Columbia Basin dates back at least 10 numan nativation in the Columbia basin dates back at teast 10,00 years. Thirty-two distinct First Nations groups speaking six major languages forged a living along the banks of the Columbia. They flourished, establishing complex communities through to the

LUROS COMETH n 1792, after years of Euro-American exploration, American fur Robert Gray recorded the first Western discovery of the river at Pacific mouth. Thinda groups offered salmon in trade, and outpo were established up and down the "River of the West."

TRAINS AND CONTRACT SALES. The sph centry brought logging, steam-powerd vessels, mis-sonries, the "Treat Migration," the death and displacement of thousands of indigenous peoples, nalizeds, gold, the commerci-fishing industry and the Homestead Art. Oregon, Claumbia, and Washington territories were created, and later, in styr, the estate mend of Brith Actionalis as a Canadian province.

The Lower Bennington Falls Dam on the Kontensy River, the first dam to be exected on a Columbia tributary, was completed in 1898. Dams started popping up across the drainage, many without falls laders. The Boundary Water Treats, which sell timits on water levels affected by dams on transboundary rivers, was signed into lawer ly the United States and Canada is 1990. A 1992 defeating around the sell affected proposed the development of eight dams on the Columbia River. In another selling and the selling around the Dregon's Bonnellia and he fall of 1933, construction began on the Oregon's Bor Washington's Grand Coulee Dams.

A server a total of the control of the control of the Columbia and over Goday, there are s₁ dams on the main stem of the Columbia and over og dams in the back. Altogether, the theriver's 26 major dams are capable of harnessing 32,57 megawatts of power, it's the United States' most productive source of hydrogower. The Grand Coulee is the river's largest producer, with a generating capacity of *porp* regarants. Todgar withins here along the river, including it tribal and the second secon

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the largest) after collecting runoff from a basin slightly larger than France. Of the over 60 dams in the Columbia River watershed, the four dams that reshaped the Kootenay landscape were built after Canada and the United States signed the Columbia River Treary in 1964: British Columbia's Ducan. Mica and Hugh Kenleyside Dams, as well as Montana's Libby Dam. The treaty looded 110,000 bectares of farmaliand and forest, sessitially turning southeastern British Columbia into a giant holding tank and profoundly chang-ing the Kootenasy Server. Now the Columbia River Treaty is up for encoptiation for the first time in over 50 years. The negotiations could last a decade, and the region has the opportunity to regain could last a decade, and the region has the opportunity to regain could brit a decade, and the region has the sportunity to regain could last a decade, and the region has the sportunity to regain could last a decade, and the region has the opportunity to regain could last a decade, and the region thas the opportunity to regain could last a decade, and the regional to the Kootenays. And now that its time for tentry ago: the most important document ever signed in southern British foliambia, surger, making it eaus to underestimate the value of a were blessed with a seemingly endless surphy of fresh water when kooten the could be reader and the value of a value worth. Or look to the once-mighty Colorado Even-maning and 2016. Correct of could have many show more of a both.

what water is worth. Or look to the once-mighty Colorado River—which din't even reach its terminus at the Sea of Cortez between 1998 and 2014—for proof of what happens when some-thing so valuable is portony managed. In the first round of negotiations, the Kootenays lost hun-dreds of kilometres of valley bottom and surrendered control of water levels in its own backyard. The Columbia River Treaty was the greatest sacrifice ever made on behalf of the people of the Kootenays. It's also an audacious engineering feat that will likely never be matched again by a wetter a democracy. Only China's Three Gorges Dam project rivals it.

THE TREATY DAMS FOLLOWED THE DEVELOPMENT OF THE GRAND COULEE DAM, CREATING THEIR OWN NECKLACE OF RESERVOIRS ON BOTH SIDES OF THE BORDER AND ENSURING

AMERICAN VICE PRESIDENT Lyndon Johnson AMERICAN VICE PRESIDENT lyndon Johnson vas a lanky Tean looking for an cas yvin. Beloved President John Kennedy lad just been assasinated and Americans didn't really know or trast Johnson, who had the gall to be sworn in on Air force One before the country could properly mourn. Johnson made his first foreign trip to British Columbia to sign the Columbia River Tearly, setting into motion an engineering project as ambitous as any infrastructure initiative outlined in Frankin D. Roosevelfs nov infamous Nev Deal. Three nev dams, and an option for a fourth, were built on the Columbia and brought the mighty waterway to het. Aside form generating power, the dams prevented catastrophic flooding, such



as the 1948 flood, when anywhere from 16 to 50 people (death was less of a recordable event back then) died in a chaotic evacuation. The floods rendered entire towns in Canada and the US uninhabit-able. Floods to that extreme haven't happened since. The more water the dams backed up, the more the money

The more water the dams backed up, the more the money flowed. The new dams made utility companies, governments and individuals rich in hydroelectric money, adding fuel to the fire of the postwar dream. To this day, provincial and state governments, through their utilities, make so much money it is impossible to cal-culate. The United States pays Canada S100 to S300 million a year as compensation. Known as the "Canadian Entitlement," it's chump change compared to the hydroelectric profits governments receive from the tearty dams yeary year.

change compared to the hydrolectric profits governments receive from the treaty dams every year. Almost half of British Columbia's electricity comes from these dams, with the province selling the excess. Hydrolectric power is also relatively carbon-free compared to other energy sources and has the added advantage of being generated when it's needed or when the market pays highest, unlike wind and solar, which only

generate when the resource cooperates. The treaty dams have made British Columbia wealthy in the way oil has made Alberta wealthy. They have also turned entire communities into begars. First Nations, in particular, were ignored completely when the Columbia River Treaty was negotiated in the 1950s and when the dams were built after that. The Canadian government went so far as to strike the Sinkit people from the Indian Act, declaring them officially existent in 1956, conspicuously close to the period of time the government was beginning to make plans to flood the Canadian portunion of their traditional territory. The four treaty dams did not choke off the salmon local First Nations cultures were based on, that was the Grand Coulee Dam, completed in central Washington in 1941 — a New Deal colors sus President Franklin D. Roosevelt took personal interest in. The Grand Coulee backed up the Columbia from current Washington to the Canadian border and the giant reservoir it created named was after him.

was after him. The treaty dams followed the development of the Grand Coulee

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TRUST FOR US

THE COLUMBIA BASIN TRUST AND ITS ANNUAL Multi-million dollar purse was fought for by residents who ensured locals gained from lands and livelihoods lost. But when NEW TREATY TALKS BEGIN, THE TRUST'S BUCK STOPS THERE.

Dam, creating their own necklace of reservoirs on both sides of the border and ensuring once plentiful steelhead, chinook, coho and sockeye runs would never return. An already staggered people fell into abiect poverty. "Even today, the lands upriver from the Coulee Dam are some of the most depressed areas in the United States, on reservation or of reservation," syst Michael Macrohand, chairman of the Washington-based Colville Confederated Tribes, Marchand talks to me on the steps of the Netson, British Columbia, court-bours where he's attending an improbable case. The Snist people declared by the federal government to be extinct 60 years ago, are trying to prove in court they are, in fact, still a people with aborgi-al rights in Canada. Marchand's grandither was a Sinist leader and secar fishermose

nal rights in Canada. Marchand's grandfather was a Sinixt leader and spear fisherman at what is now Kettle Falls, Washington, where the fishery was so lucrative it drew native traders from all over the continent—until the dams were built. "It really destroyed a way of line", laments Marchand. "We used to have 5,000 fishermen gathered at Kettle Falls. It was a major trade centre. They've found artifacts from the Allantic Ocean, Gulf of Mexico, all over North America; they came to trade for 10,000 years."

Farmers and other settlers were also devastated by the creation of reservoirs where there once flowed a river. More than 2,000 peo-ple in British Columbia alone were moved to higher ground, their homes and farms burned to make way for the oncoming water. The governments paid them little more attention than they did First Nations. The Arrow Lakes valley used to be the third most fertile in the province, after the Fraser and Okanagan, a bush, idylic place with farms, apple orchard, and wild grasslands. Now it's underwa-ter. There are scattering of people living on its shores in resettle-ment communities, but not many. Duncan Lake, Koocanusa and the Kinbasket Reservoirs are even less inhabited. The mountains that rise out of the water are spec-tacular as any in southern British Columbia. The reservoirs created by the dams somehow discourage coploration and settlement. This is not necessarily a coincidence of geography or history. Why set down roost in a place that is easonally filled and drained like a bathtub? A bathub your own government has limited control over. And you have absolutely none.

THE TREATY HAS no end date but either country could have terminated it in 2024 provided 10 years notice was given. In 2014, neither side opted to 6 that. Provincial, federal and state governments on both sides of the border have no interest in ending a treaty that has serviced them so well. Canada and the US have served notice that they would like to update the treaty to meet the



umbia Basin Treaty's future, like this co C, renegotiation of the colossal arrange alks between Ottawa and Washington.

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needs of two countries in a new century. They refer to it as "tinkering" or "modernizing" the treaty, a somewhat nebulous reference since no treaty like this exists between two nations anywhere else

since no treaty like this exists between two nations anywhere else in the world. Further to that, there surely hasn't been one revisited half a century later. "There's so many questions, I feel like I'm watching a game of poker and waiting for someone to lay a card down," says Eileen Delchanty Pearkes, a Nelson, British Columbia-based activits and writer who has just finished a book on the treaty called A *Rive Captured*. 'In general, I'm not sure people understand both what this region possesses and what this region lost in the first iteration of the treaty". The impacts of a renepotiated agreement can only be guessed at, but just like the first time around, the Kootenays have a tremendous amount to lose—control over its water.

guessed at, but just like the first time around, the Kootenays have a tremendous amount to lose — control over its water. Canada is choosing its negotiating team and the United States is not that far yet. There are no dates set or even firm rules about what is on the table when talks start.¹ think talks will begin when the US has developed a position that it believes will potentially bring them more benefist," says British Columbia Energy Minister Bill Bennett, whose ministry has taken the lead in treaty negotia-tions. "BiC has already in 2014, spelled out our interests. We have received one very brief statement from the State Department indi-cating they might like to sit down, but no follow-up and no formal ensagement at this time."

cating they might like to si down, but no follow-up and no formal engagement at this time." Hood control will remain the defining interest, with power gen-ration right behind it the two main benefits the treaty has pro-vided. First Mations are admant they worb be a winness to their out destruction anymore. They have already led a heroic effort to get Columbia salmon back to the Olanagam Valley and vow to see them return to the upper Columbia. They want the return of salmon as a priority in any new deal. That alone has implications that would make both biologists' and bankers' heads hurt. Reidents on the edge of reservoirs want more stability in water-level management and a voice over whether their lakeshore should be allowed to drop by as much as 30 metres. In 1964, these lakes were viewed as tools to move goods, and produce food and energy. Scant attention was given to them as part of a larger ecosystem. Or zopol's lives.

Scant attention was given to unear the part to energy people's lives. Then there is the water itself. When the treaty was signed, Canada's stretch of the Columbia contributed about one-third of the water that eventually made it to the Pacific. With global warm-ing and sustained drought on the American Grear Plains, it's now more like 40 per cent. Some scientists think it will rise to 50 per cent before any new deal is inked. Washington State's agriculture sector alone generates \$5 billion a year, largely in part to their recent ability to use water drawn from Columbia River reservoirs.

CHRISTOPHER SWAIN KNOWS all of this. He spent 13 months of his life swimming down the river that is born in the heart of the Kootenays, then turned it into a career of clean-water advocacy. Since the Columbia, Swain has swum the entire lengths of the Hudson, Mohawk, Charles and Mystic Rivers, as well as huge swaths of the eastern seaboard. For all of his epic efforts, Swain received the Earth Day Award at the United Nations. Catching up with him via phone at his home in New York, the 49-year-old is



nighty fury, bringing with it a serious w bitants living in the Columbia Basin dur umbia River breached its banks, creati 2 40,000-person colony known as Vanp ie 40,0 es. The p

still eager to talk about the river 15 years on. He understands the importance of the treaty more than most of the people who live near the river. The way Swain sees it, Canadians hold all the good near the river. The way Swain sees it, Canadians hold all the good cards in negotiations, with the most powerful nation in the world, and they need to play them carefully, this time with the river and its people as the first priorities. "Frouget for a minute you have a super-power negotiating [with you] that is going to use all kind of lever-age on you," he say. "Just think for a minute: What do you want? This has to work for Canada and this has to work for the river."

Bob Keating runs the CBC's Kootenay bureau in Nelson, British Columbia. He's been covering the twists and turns of the Columbia River Treaty for years and has a file on the treaty as thick as a phone bob (the dol nees) to prove it. This is his third fatture for KMC.

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