Fracfocus.ca

Building on a Good Idea

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BC Oil and Gas Commission
October 2011

Fracfocus.ca
Building on a Good Idea

- In the beginning
- Commitments in British Columbia
- The site
- Next steps

In The Beginning…

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Home | Welcome | Publications | News & Updates | Links

FracFocus
Chemical Disclosure Registry

HYDRAULIC FRACTURING HOW IT WORKS | GROUNDWATER PROTECTION | CHEMICAL USE | REGULATIONS BY STATE | FIND A WELL BY STATE | FREQUENT QUESTIONS

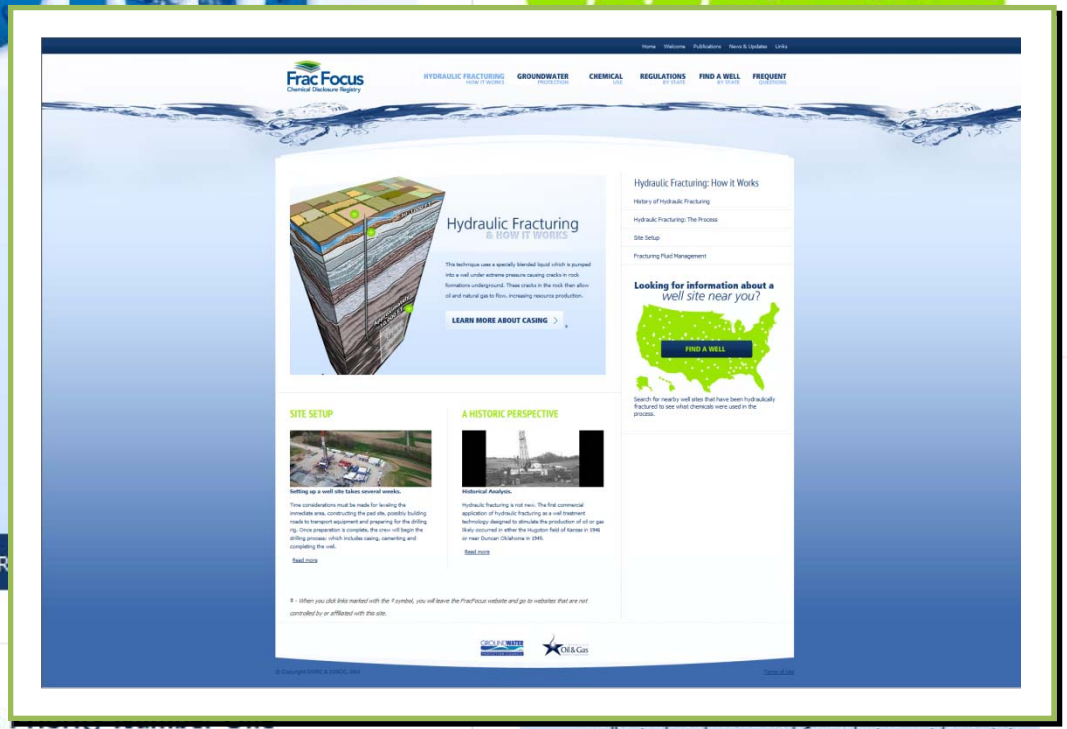
WELCOME

Welcome to FracFocus, the hydraulic fracturing chemical registry website. This website is a joint project of the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission.

On this site you can search for information about the chemicals used in the hydraulic fracturing of oil and gas wells. You will also find educational materials designed to help you put this information in perspective.

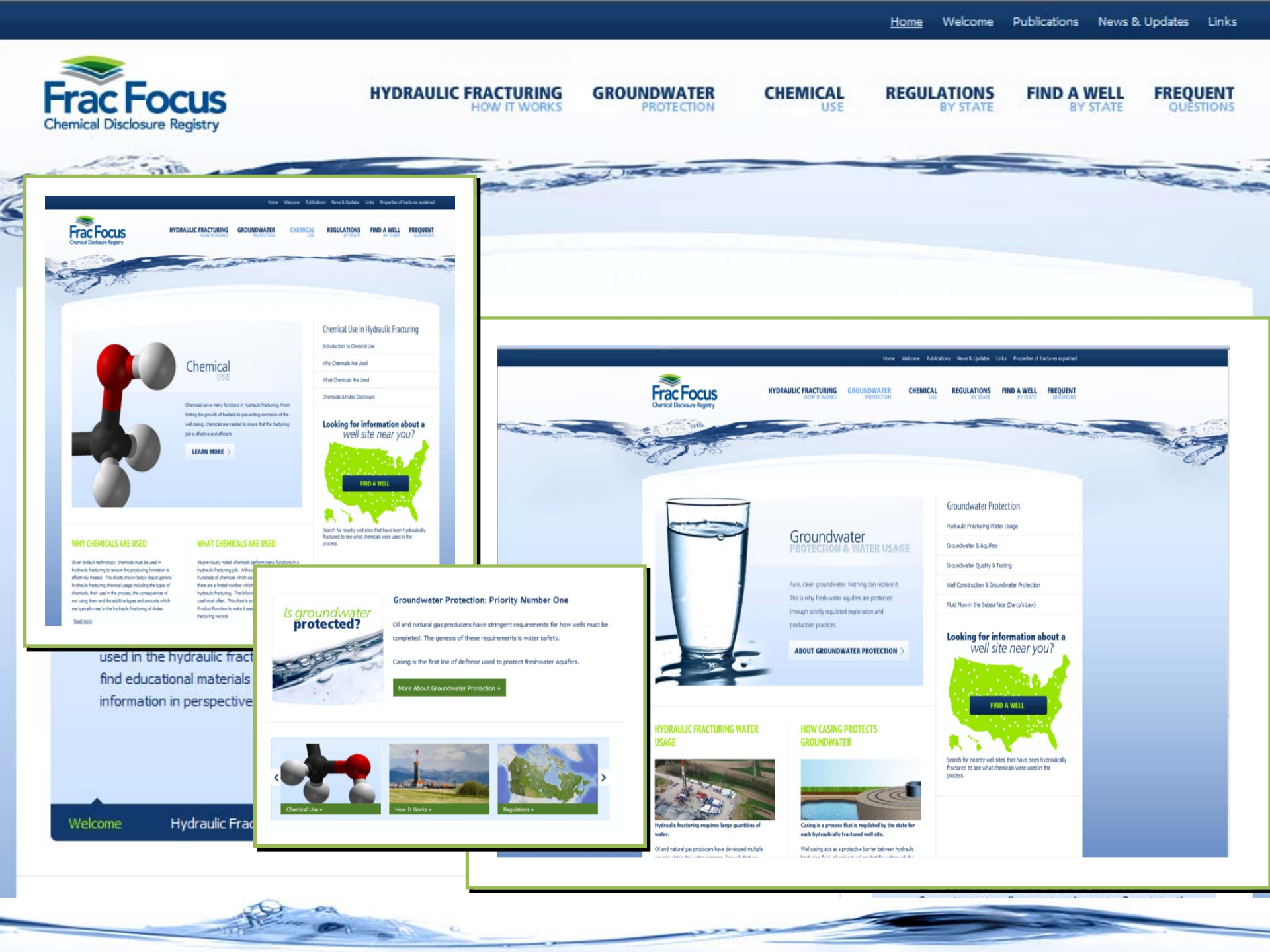
Welcome | Hydraulic Fracturing | Casing & Cement | State R

Looking for information about a *well site near you?*



Groundwater Protection:

collected and prepared for sale to a wide variety


Home Welcome Publications News & Updates Links
Frac Focus
Chemical Disclosure Registry
HYDRAULIC FRACTURING
HOW IT WORKS
GROUNDWATER
PROTECTION
CHEMICAL
USE
REGULATIONS
BY STATE
FIND A WELL
BY STATE
FREQUENT
QUESTIONS
Chemical
USE
Chemicals serve many functions in hydraulic fracturing. From limiting the growth of bacteria to preventing corrosion of the well casing, chemicals are needed to insure that the fracturing job is effective and efficient.
LEARN MORE
Chemical Use in Hydraulic Fracturing
Introduction to Chemical Use
Why Chemicals Are Used
What Chemicals Are Used
Chemicals & Public Disclosure
Looking for information about a well site near you?
FIND A WELL
Search for nearby well sites that have been hydraulically fractured to see what chemicals were used in the process.
WHY CHEMICALS ARE USED
WHAT CHEMICALS ARE USED
Groundwater
PROTECTION & WATER USAGE
Pure, clean groundwater. Nothing can replace it. This is why fresh-water aquifers are protected through strictly regulated exploration and production practices.
ABOUT GROUNDWATER PROTECTION
Groundwater Protection
Hydraulic Fracturing Water Usage
Groundwater & Aquifers
Groundwater Quality & Testing
Well Construction & Groundwater Protection
Fluid Flow in the Subsurface (Darcy's Law)
HYDRAULIC FRACTURING WATER USAGE
HOW CASING PROTECTS GROUNDWATER
Hydraulic fracturing requires large quantities of water.
Casing is a process that is regulated by the state for each hydraulically fractured well site.
Is groundwater protected?
Groundwater Protection: Priority Number One
Oil and natural gas producers have stringent requirements for how wells must be completed. The genesis of these requirements is water safety.
Casing is the first line of defense used to protect freshwater aquifers.
More About Groundwater Protection »
Chemical Use »
How It Works »
Regulations »
used in the hydraulic fract
find educational materials
information in perspective
Welcome
Hydraulic Frac

Fort Nelson

Victoria

Media Release:
INCREASED TRANSPARENCY FOR NATURAL GAS SECTOR
FORT NELSON – Premier Christy Clark announced a plan which will increase the transparency around hydraulic fracturing practices used in the industry.

Starting in Jan. 2012, an online registry – accessible to everyone – will allow visitors to search for the locations of where hydraulic fracturing activities are taking place, and for detailed information about the practices and additives used during these activities.

http://www.youtube.com/watch?v=vFhS8dJuQnw&feature=player_embedded0

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WELCOME

Welcome to the Hydraulic Fracturing and Fracture Fluid Information Site. This website is a project of the BC Oil & Gas Commission and is intended to provide objective information on Hydraulic Fracturing. Fracturing Fluids, Groundwater and Surface water protection and related oil and gas activities in Canada.

LEARN MORE

Welcome | Hydraulic Fracturing | Casing & Cement | Chemical Use

FAQs

1 / 1

Q. What is Hydraulic Fracturing?

Hydraulic fracturing, commonly referred to as "fracing", is the process of creating small cracks, or fractures, in deeply buried geological formations to allow natural gas to flow into the wellbore. The natural gas can then flow to the surface under controlled conditions through the wellhead and collected for processing and distribution.

During the hydraulic fracturing process, a mixture of water, sand and other chemical additives designed to protect the integrity of the wellbore and enhance production is pumped under high pressure into the formation to create fractures. The fractures are kept open by the sand or "proppant", which provide pathways to allow the natural gas to flow into the wellbore.

All FAQs »

Groundwater Protection: Priority Number One

Oil and natural gas producers have stringent requirements for how wells must be completed. The genesis of these requirements is water safety.

Casing is the first line of defense used to protect freshwater aquifers.

More About Groundwater Protection »

BC Oil & Gas Commission Creates Canadian FracFocus Website

The **FracFocus.ca** website launch is a public education effort to inform Canadian citizens of the process of hydraulic fracturing. The site is also a transparent tool available for producing oil and natural gas companies to use to disclose the chemicals they are using to hydraulically fracture oil and natural gas wells, on a per-well basis.

Read more

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Home | Welcome | Publications | News & Updates | Links | Contact Us

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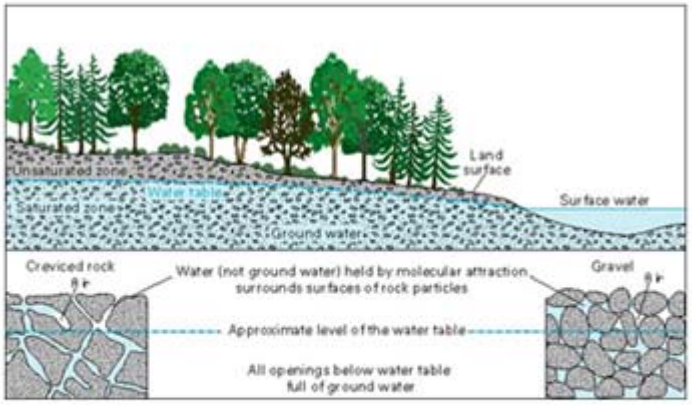
Chemical Disclosure Registry

HYDRAULIC FRACTURING THE PROCESS | WATER USAGE & PROTECTION | CHEMICAL USE | FREQUENT QUESTIONS

Hydrologic Cycle, Groundwater, Aquifers and Surface Water

Nearly 9 million Canadians rely on groundwater for domestic use (Source: Statistics Canada), which makes it an essential resource. Geologic strata that contain significant amounts of moveable water are called aquifers. Aquifers can carry fresh, brackish or saline water. Formation or ground water quality is often described by its Total Dissolved Solids (TDS) concentration

The hydrologic cycle describes the natural circulation of water through our atmosphere, surface and subsurfa
cycle, water undergoes natural transformations. Water will fall from the atmosphere in the form of precipitatio
the surface. Some of this water will remain on the surface and drain into rivers and lakes, while another portio
the ground or be absorbed by plants and the remainder may evaporate back into the atmosphere again.



Initial water seepage entering the subsurface goes into the unsaturated or vadose zone, which has mix of air and water. Some of this water will be taken up by roots or will coat the soil, but the remainder will continue through to the saturated zone, which

Water And Hydraulic Frac

- Domestic Water Protection
- Groundwater & Aquifers
- Groundwater Terms & Myths

Looking for information about a *well site near you?*

Search for nearby well sites that have been hydraulically fractured to see what chemicals were used in the process.

FIND A WELL

You have questions.
WE HAVE ANSWERS.

Find out what you'd like to know about hydraulic fracturing. And if you don't find your answer here, drop us a line using our "Ask a Question" section.

HOW HYDRAULIC FRACTURING WORKS >

FRACFOCUS.CA GOES LIVE

Staring in Jan. 2012 the BC Oil and Gas Commission will launch its new chemical registry website: FracFocus.ca

This "operator" site will allow oil and natural gas producing companies to upload hydraulic fracturing chemical information for each new well site using this technology.

Once this site is live, a public education component will allow visitors to learn more about the process and interface with operator information. This allows the public to see what chemicals are being used in well sites near their property.

Learn More »

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