

# ***City of Burnaby Opposes Kinder Morgan Pipeline Proposal***



**60%**

*of Applicants to Intervene  
in NEB Hearings **Denied***

***“Stating general concerns about pipelines or how a spill might affect a community as a whole was not sufficient to show a direct effect”***

**National Energy Board**

# The Province

It starts here.

## B.C. applies for intervener status at Trans Mountain pipeline hearings

THE CANADIAN PRESS FEBRUARY 7, 2014



A oil tanker is guided by tug boats as it goes under the Lions Gate Bridge at the mouth of Vancouver Harbour on May 5, 2012.

Photograph by: JONATHAN HAYWARD , THE CANADIAN PRESS

**VANCOUVER** — The province of British Columbia has filed an application to take part in the public hearings into Kinder Morgan's proposed expansion of its Trans Mountain oil pipeline.

2007 Kinder Morgan spill in Burnaby



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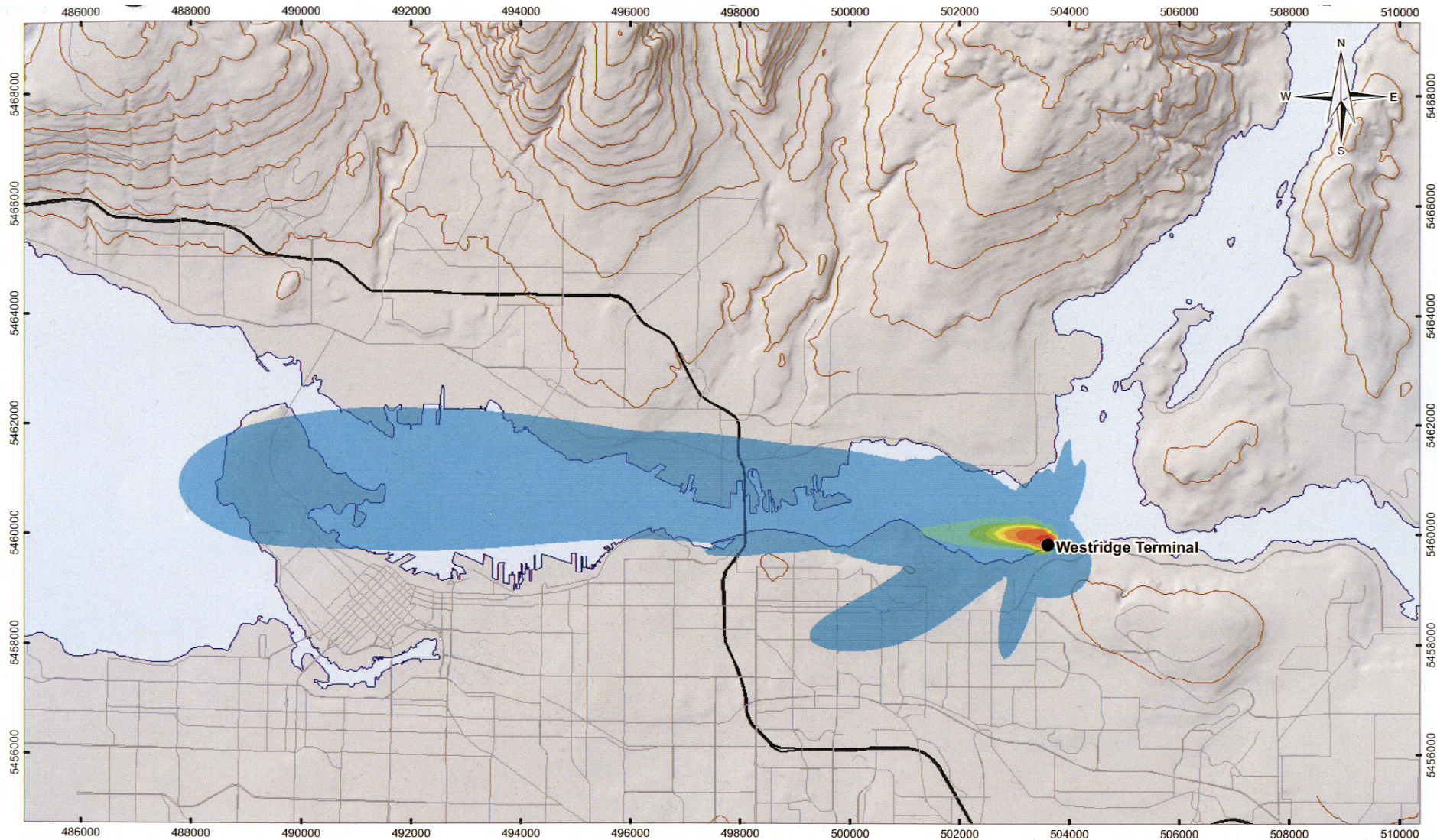


**2007 Kinder Morgan spill in Burnaby**



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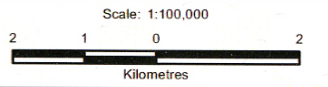




**LEGEND**

<b>Benzene Concentration (<math>\mu\text{g}/\text{m}^3</math>)</b>	400 - 500	Westridge Terminal
5 - 100	500 - 580	Highway 1
100 - 200	580 - 1,000	Road
200 - 300	1,000 - 4,000	Contour (100 m)
300 - 400	> 4,000	

**NOTES**  
 1. Base data source: BC Digital Road Atlas; CanVec.  
 2. 160 m<sup>3</sup> spill originating at berth with 32 m<sup>3</sup> escaping pre-deployed boom.



<b>PROJECTION</b> UTM Zone 10	<b>DATUM</b> NAD83
<b>FILE NO.</b> V13203022_013_Figure9-6-2_Benzene.mxd	
<b>CLIENT</b> TRANS MOUNTAIN	
<b>eba</b> A TETRA TECH COMPANY	

**TRANS MOUNTAIN OIL SPILL STUDY**

**Benzene - Maximum 1-hour Average Ground Level Concentration in Air ( $\mu\text{g}/\text{m}^3$ ) - 160m<sup>3</sup> Spill**

<b>PROJECT NO.</b> V13203022.013	<b>DWN</b> SL	<b>CKD</b> MEZ	<b>APVD</b> TM	<b>REV</b> 0
<b>OFFICE</b> EBA-VANC	<b>DATE</b> November 28, 2013			

**Figure 9.6.2**

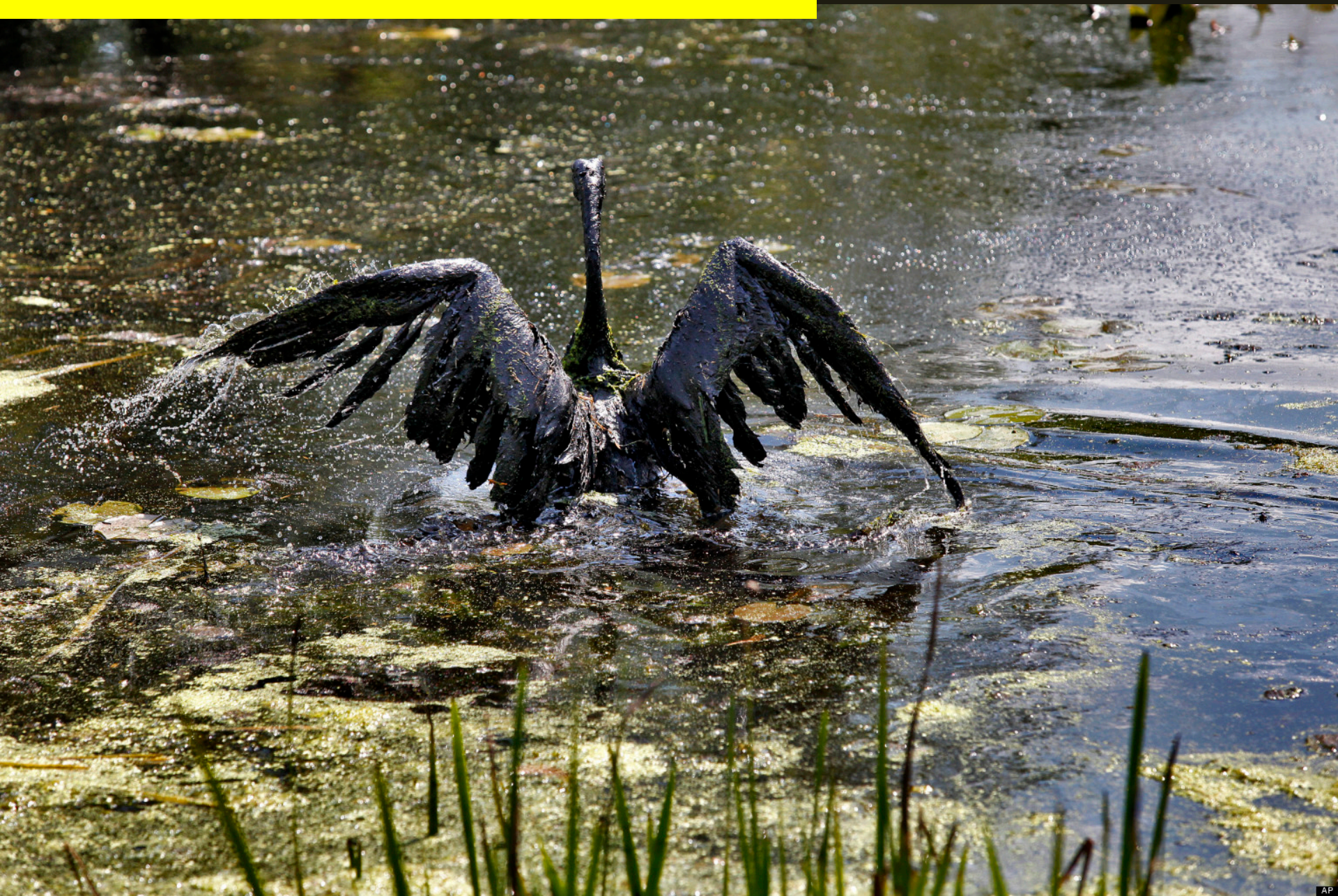
**STATUS**  
ISSUED FOR USE



**2010 Kalamazoo River pipeline rupture and bitumen spill**



***2010 Kalamazoo River pipeline rupture and bitumen spill***



***2010 Kalamazoo River pipeline rupture and bitumen spill***



**2010 Kalamazoo River pipeline rupture and bitumen spill**



**2009 Cataño oil refinery fire in Puerto Rico**



**2010 San Bruno, California pipeline explosion**



**2010 San Bruno, California pipeline explosion**



**2010 San Bruno, California pipeline explosion**





To watch the video, click the link below:

[US Pipeline Incidents: 1986 – 2013](#)



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# List of pipeline accidents in the United States in the 21st century

From Wikipedia, the free encyclopedia

The following is a **list of pipeline accidents in the United States during the 21st century**. It is one of several lists of **U.S. pipeline accidents**.

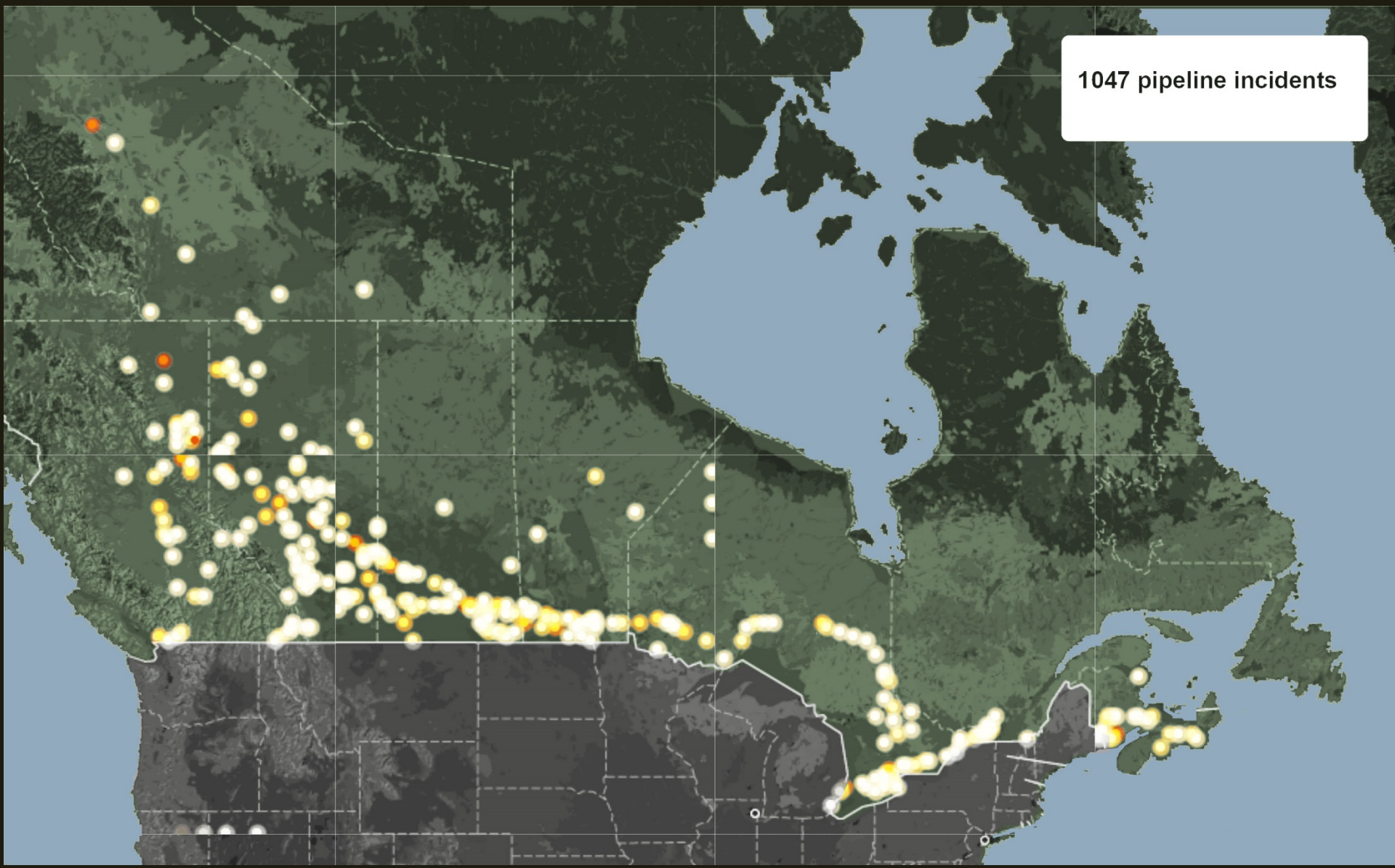
*This list is **incomplete**; you can help by **expanding it**.*

## 2000s [\[edit\]](#)

- 2000 On January 10, approximately 100 barrels of jet fuel were discharged from **Plantation Pipeline** in **Newington, Virginia**, some of which entered into Accotink Creek and its adjoining shorelines. The failure resulted from a failed gasket on an interface detector.<sup>[1]</sup>
- On January 21, a **Chevron** pipeline leaked from a welding flaw near **Corinne, Utah**, spilling about 100 barrels of diesel fuel. The product spread over 38 acres of salt flat and wetlands used by birds. About 75% to 80% of the spill was intentionally burned to eliminate it.<sup>[2][3]</sup>
- 2000 On January 27, in **Winchester, Kentucky**, a pipeline accident released about 490,000 US gallons (1,900,000 L) of crude oil. NTSB investigators found a dent on the bottom of the pipe in the rupture area. Marathon-Ashland spent about \$7.1 million in response to the accident.<sup>[4][5]</sup>
- 2000 On February 5, a pipeline failed and spilled over 192,000 US gallons (730,000 L) of crude oil in the **John Heinz National Wildlife Refuge** in Pennsylvania. The source of the spill was a break in a miter bend in the pipe, which was estimated to be at least 50 years old.<sup>[6][7]</sup>
- 2000 A petroleum pipeline failure in **Greenville, Texas**, on March 9. A 28-inch pipeline ruptured and released 13,436 barrels (2,136.2 m<sup>3</sup>) of gasoline. The released eventually reached East Caddo Creek. The banks of the tributary and creek contained the escaping gasoline as it flowed away from the ruptured pipe. The probable cause of the pipeline failure was corrosion-fatigue cracking that initiated at the edge of the longitudinal seam weld at a likely preexisting weld defect. Contributing to the failure was the loss of pipe coating integrity.<sup>[8]</sup>
- 2000 A pipeline released fuel oil near **Chalk Point, Maryland**, on April 7. The Piney Point Oil Pipeline system, which was owned by the Potomac Electric Power Company (Pepco), experienced a pipe failure at the Chalk Point Generating Station in southeastern Prince George's County, Maryland. The release was not discovered and addressed by the contract operating company, Support Terminal Services, Inc., until the late afternoon. Approximately 140,400 US gallons (531,000 L) of fuel oil were released into the surrounding wetlands and Swanson Creek and, subsequently, the Patuxent River as a result of the accident. No injuries were caused by the accident, which cost approximately \$71 million for environmental response and clean-up operations.<sup>[9]</sup>
- 2000 A **Colonial Pipeline** Co. line failed near **Greensboro, North Carolina** on May 19. At least 714 gallons (17 barrels) of kerosene spilled, some of which entered a pond that flows into a tributary of the East Fork Deep River. The kerosene spill caused a sheen about 40 feet by 40 feet in the pond. As a result of this, and 6 other previous **Colonial Pipeline** accidents, the EPA fined Colonial \$34 million in 2003.<sup>[10]</sup>
- 2000 On June 7, a stopple fitting weld failed on a pipeline, causing a rupture releasing 75,000 US gallons (280,000 L) of gasoline into the environment, and causing the evacuation of more than 500 homes in **Blackman Charter Township, Michigan**. The failure caused the shutdown of 30% of Michigan's gasoline supplies for nine days, contaminated a creek which flows into the Grand River, and a railroad track near the failure site was shut down for a week. Later tests found 715 anomalies in this pipeline.<sup>[11]</sup>
- 2000 On July 5, two boats hit a **Southern Natural Gas** pipeline off the coast of **Plaquemines, Louisiana**, causing a gas fire that burned 5 members of the boat crews. The fire could be seen at 35 miles away from it.<sup>[12][13]</sup>
- 2000 A 30-inch diameter **El Paso Natural Gas** pipeline rupture and fire near **Carlsbad, New Mexico** killed 12 members of an extended family camping over 600 feet (180 m) from the rupture point. The force of the escaping gas created a 51-foot (16 m)-wide crater about 113 feet (34 m) along the pipe. A 49-foot (15 m) section of the pipe was ejected from the crater, in three pieces measuring approximately 3 feet (0.91 m), 20 feet (6.1 m), and 26 feet (7.9 m)

**Canadian pipeline incidents 2000 – 2012**

1047 pipeline incidents



# Alberta families abandon homes over bitumen fumes

Posted January 28, 2014 by Common Sense Canadian in *Western Canada*

0



Fumes from these bitumen storage tanks are allegedly driving Alberta families from their homes.

Read this Jan. 26th *Vancouver Observer* story by Mychaylo Prystupa on the extreme effects of bitumen fumes from Baytex Energy's storage tanks on families near Peace River Alberta.

## Direct cost of historical oil spills

adjusted for inflation

<b>Enbridge Kalamazoo River (2010)</b>	<b>\$725 million</b>
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<b>BP Deep Water Horizon (2010)</b>	<b>\$41.6 billion*</b>
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<b>Exxon Valdez (1989)</b>	<b>\$6.3 billion</b>
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<b>Amoco (1978)</b>	<b>\$3 billion</b>
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\* cleanup is still ongoing and total cost may remain unknown for several years

SOURCE: CRED

# Jobs at Risk

Up to 43% of these jobs could be affected by a spill

REAL ESTATE AND PROPERTY DEVELOPMENT

121,143



TOURISM

93,578



CLEAN TECH

8,400



AGRICULTURE

4,814



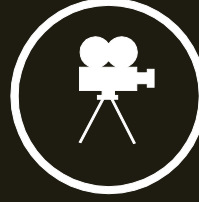
INFORMATION COMMUNICATION TECHNOLOGY

36,600



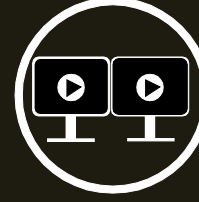
FILM

36,000+

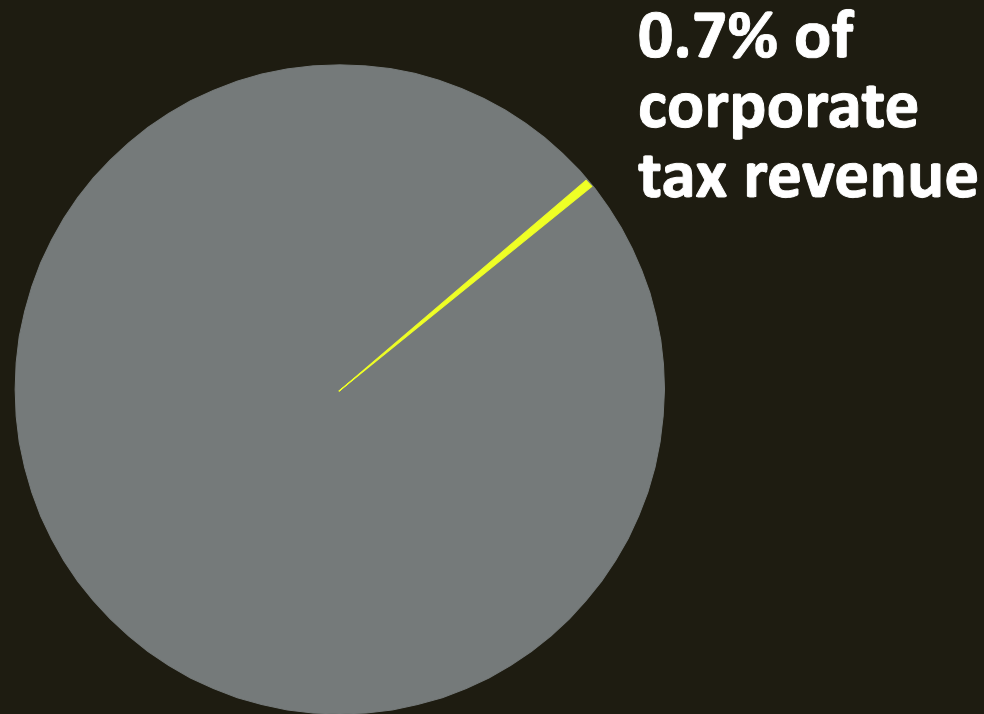


DIGITAL MEDIA

16,000



# How much would a new Kinder Morgan pipeline contribute to BC's budget?



If it goes ahead, the Kinder Morgan expansion project would add \$9.86 million per year to BC's coffers

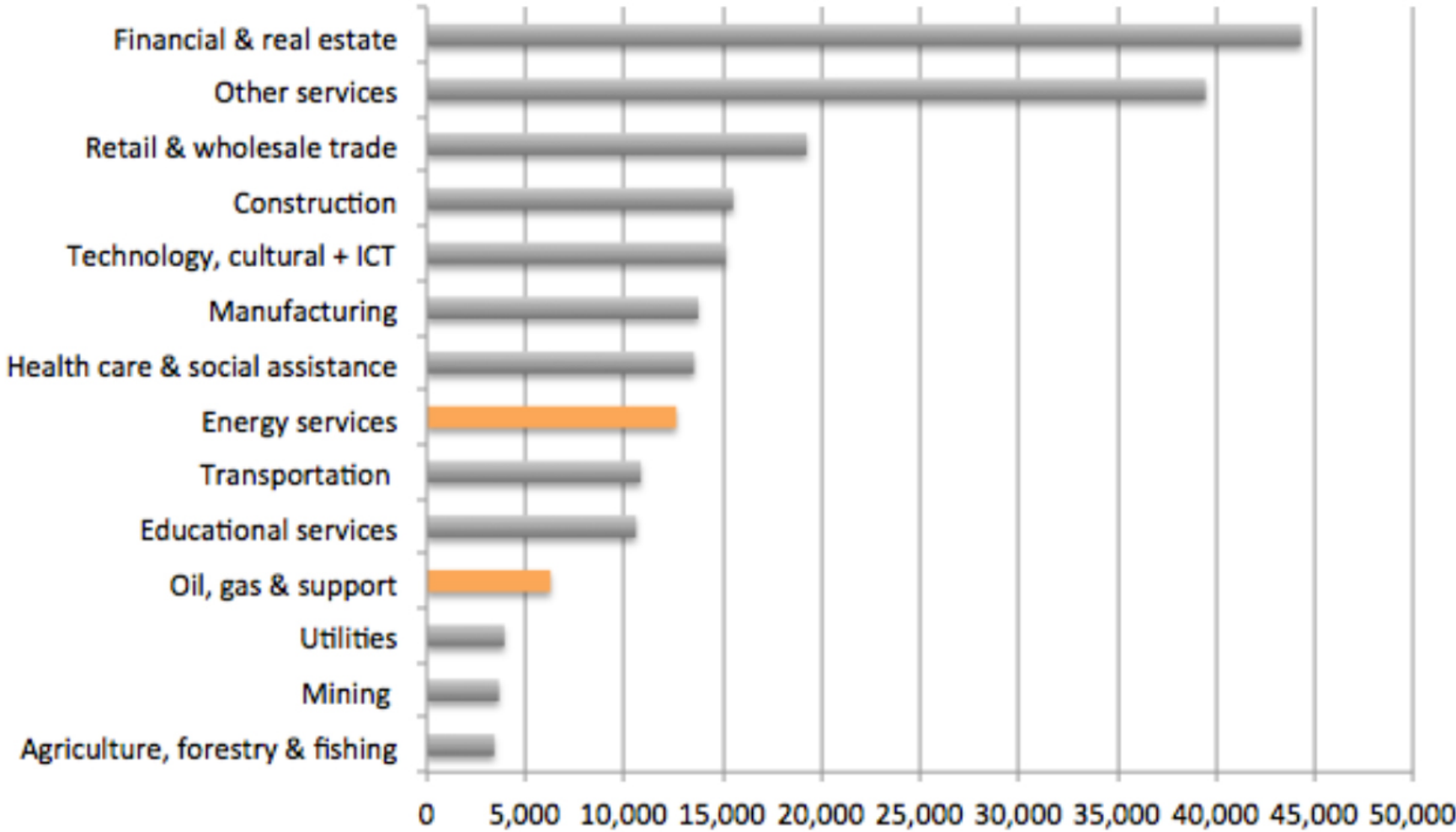
SOURCE: CRED

**“Pipeline spills can have both positive and negative effects on local and regional economies, both in the short and long term. Spill response and clean-up creates business and employment opportunities for affected communities, regions, and clean-up service providers.”**

**Kinder Morgan – on jobs the new pipeline could create in Burnaby**

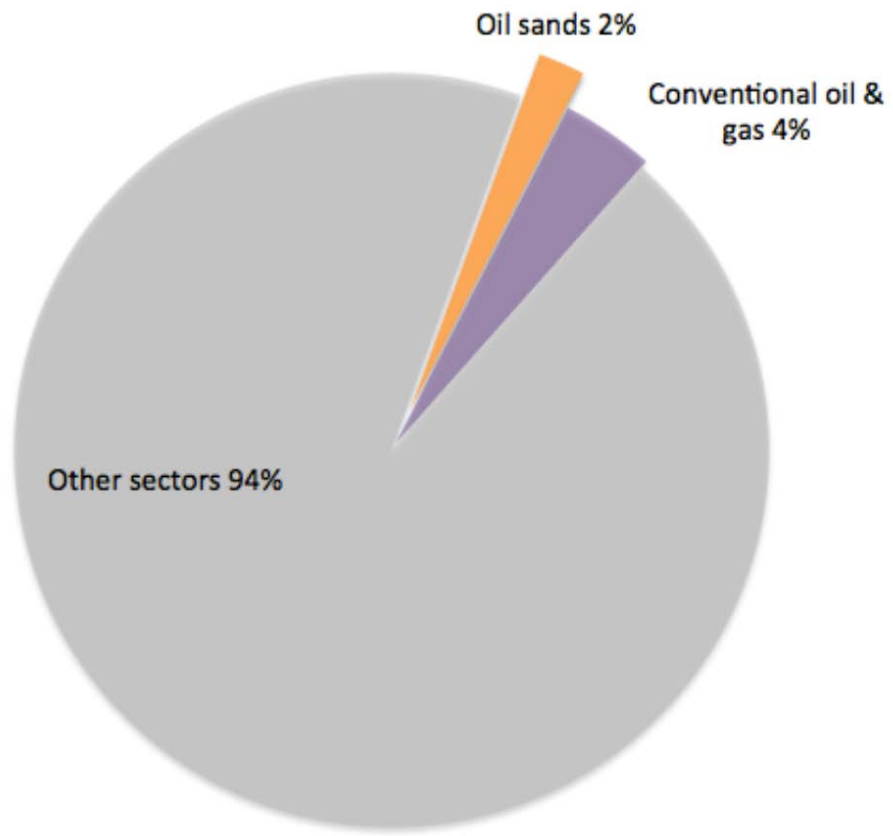


**Main sources of GDP in British Columbia** SOURCE: CRED

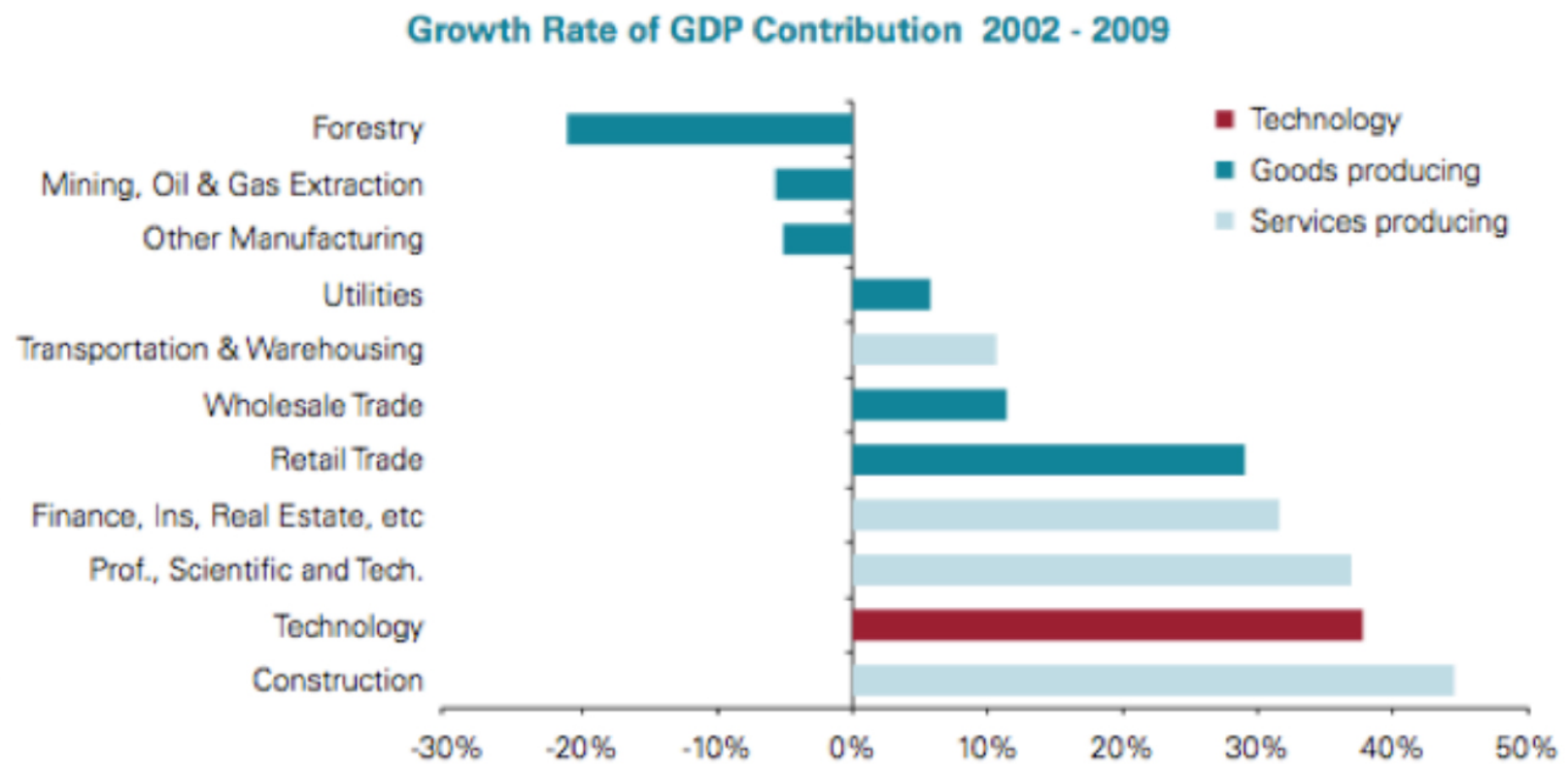


# Canadian GDP in Oil sands and conventional oil and gas

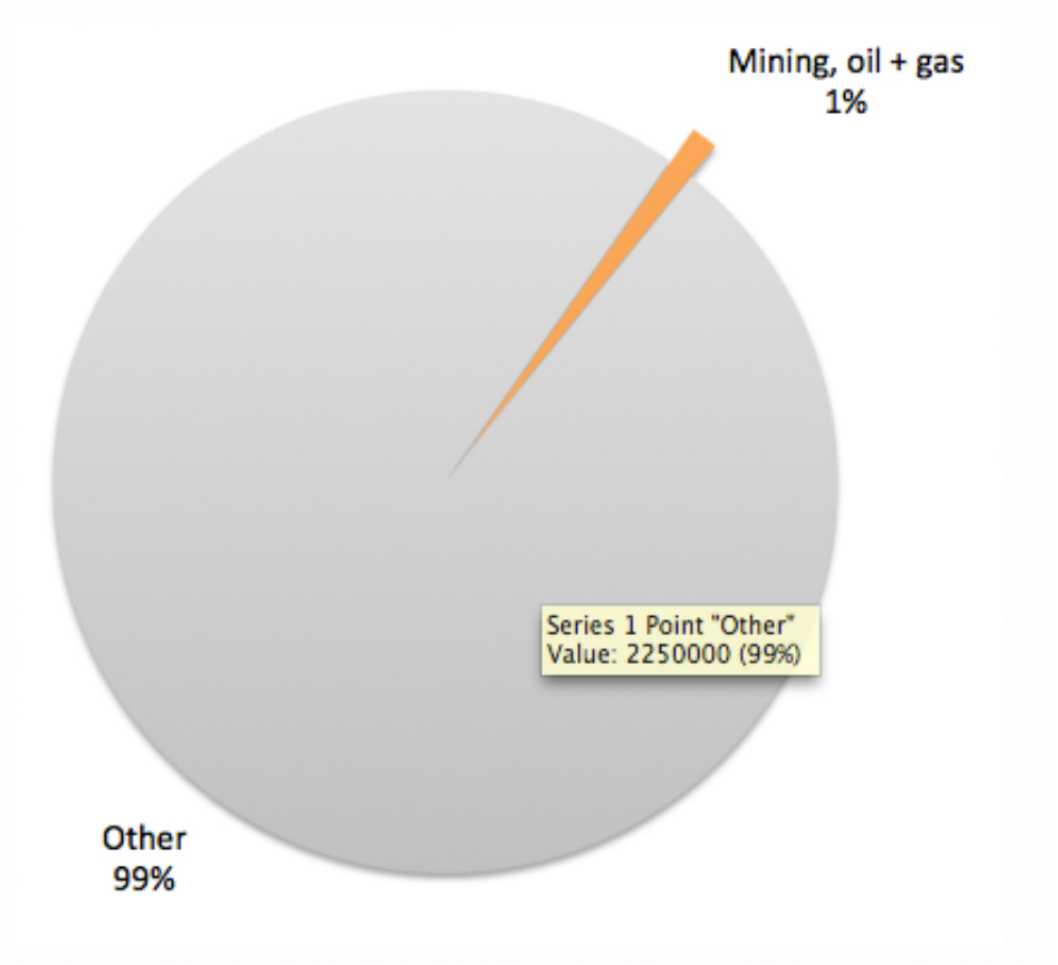
SOURCE: CRED



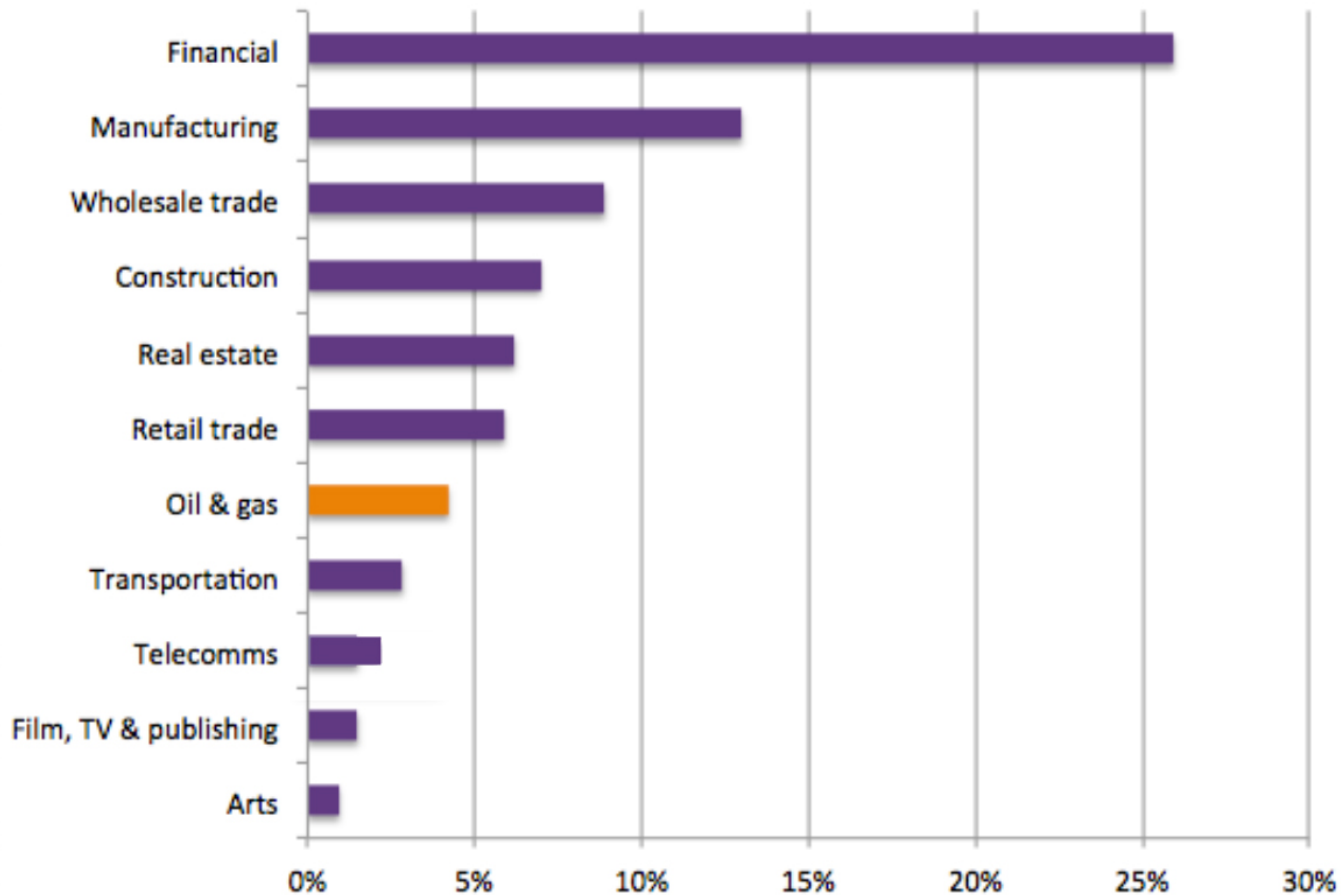
# Growth Rate of GDP Contributions 2002 – 2009



Source: Profile of the British Columbia High Technology Sector, BC Stats, July 2011.



# Who funds social programs?



Source: Statistics Canada (CANSIM table 180-0003)



163,200 jobs  
Beer economy



112,000 jobs  
Oil sands economy

*Thank you!*

