



**Canadian Natural**

## **PRIMROSE UPDATE**

### **Reporting Period August 18 - 24, 2013**

#### **Operations Update**

The four locations initially impacted at Primrose covered an area of 20.7 hectares. As a result of our active clean-up efforts, approximately 8,650 barrels of bitumen emulsion have been recovered to-date, and we are focusing on a reduced impact area of 13.5 hectares. The rate of bitumen emulsion seepage in all four locations now totals less than 20 barrels per day.

We have exposed the fissures from which the bitumen emulsion is seeping and contained them within dirt berms or borders. They are monitored daily and as bitumen collects it is recovered from the enclosed area. We are also continually monitoring outside of the controlled areas. The efforts of over 200 employees and contractors on site will continue to reduce the impacts of these bitumen emulsion seepages until the locations are fully remediated.

#### **Environmental Update**

We have wildlife monitoring teams doing sweeps throughout each day. These teams monitor traps, maintain deterrent systems, patrol impacted areas and initiate wildlife captures.

Unfortunately some animal fatalities have occurred and three beavers, seventeen birds and two small mammals are being cared for at a Wildlife Rehabilitation Centre, prior to being returned to their natural environment. As part of our wildlife mitigation program, over two kilometres of fencing and deterrents such as effigies, air horns and kites have been deployed in the areas.

#### **Investigation**

We are working diligently with the Alberta Energy Regulator and Alberta Environment and Sustainable Resource Development to investigate and remediate the affected locations.

Canadian Natural believes the cause of the bitumen emulsion seepage is mechanical failures of wellbores in the vicinity of the controlled areas. We are in the process of identifying and investigating these wellbores.

#### **For more information, please:**

Visit our website at [www.CNRL.com](http://www.CNRL.com)

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