



Canadian Natural

December 15, 2011

Mr. Ken Schuldhaus
Manager, In Situ Oil Sands
Energy Resources and Conservation Board
Suite 1000, 250 – 5 Street SW
Calgary, Alberta T2P 0R4

Mr. Amit Banerjee
Regional Approvals Manager
Alberta Environment and Water
111, 4999 – 98th Avenue
Edmonton, AB T6B 2X3

Dear Mr. Schuldhaus and Mr. Banerjee;

Re: Canadian Natural Resources Limited
Application for Approval of the Kirby In Situ Oil Sands Expansion Project

Canadian Natural hereby applies to the Energy Resources and Conservation Board (ERCB) pursuant to Section 13 of the *Oil Sands Conservation Act* (OSCA) and to Alberta Environment and Water (AEW) under Section 67 of the *Environmental Protection and Enhancement Act* (EPEA) for approval to construct and operate the Kirby In Situ Oil Sands Project (the "Kirby Expansion Project" or the "Project").

The Kirby Expansion Project will use Steam Assisted Gravity Drainage (SAGD) to recover bitumen from oil sands reserves in the McMurray Formation and the Wabiskaw D Valley Fill thereby increasing the bitumen production and processing capacity to 22,260 cubic meters per calendar day (m³/cd) or 140,000 barrels per calendar day (bbl/cd). This would be an expansion of 13,510 m³/cd (85,000 bbl/cd) from Canadian Natural's currently approved total bitumen production and processing capacity of 8,750 m³/cd (55,000 bbl/cd) from the Kirby oil sands leases located primarily in Townships 73, 74 and 75, Ranges 7, 8 and 9, W4M.

Canadian Natural is also seeking the following from AEW:

- Approval pursuant to Division 2 of Part 2 and Part 6 of EPEA to construct, operate and reclaim components of the Project;
- Approval from AEW pursuant to Section 50(1) of the *Water Act* for a license authorizing the diversion and use of water for non-saline aquifers and the diversion of surface runoff water; and

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- A determination of completeness of the Environmental Impact Assessment relative to the Terms of Reference issued by AEW, pursuant to Section 53 of EPEA.

Canadian Natural is providing copies of the enclosed Applications and Environmental Impact Assessment for your review. Please direct any questions related to these submissions to Jon Gareau at (403) 517-7153.

Sincerely,

CANADIAN NATURAL RESOURCES LIMITED



Anita Sartori, P. Eng.

Manager, Projects and Approvals

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Enclosure

Cc: Corinne Kristensen, AEW
Melissa Styba, AEW
Steve Thomas, ERCB
Jon Gareau, Canadian Natural
Sandra Kowalsky, Canadian Natural

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