

## North West Redwater Partnership Sturgeon Refinery (Proceeding Phase 1)

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### General Information

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- **Project Status:** Proceeding
- **Project Type:** Bitumen refinery
- **Industrial Area:** Alberta's Industrial Heartland
- **Location:** Sturgeon County
- **Ownership:** 50% North West Upgrading Inc. - (private) and 50% Canadian Natural Resources Limited (Public).
- **Land Holdings (acres):** 1200
- **Approx. employees and full time contractors (excluding construction workforce):** 150 for phase 1

### Company Profile

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North West Redwater Partnership, an Alberta-based Partnership, is building phase 1 of an independent heavy oil bitumen refinery with a total planned capacity of 231,000 bpd of blended feedstock (150,000 bpd of crude bitumen) over three phases. This facility will produce high quality Ultra Low Sulphur Diesel fuel and diluent, through the process of hydrocracking and hydrogen addition. The process will utilize gasification to make hydrogen from the heaviest liquid components, thereby maximizing the production of high value components, minimizing waste products, and enabling the capture and sequestration of pure carbon dioxide, which will be used by others for enhanced oil recovery and then sequestration in Alberta.

All regulatory approvals and permits have been granted, and topsoil stripping was completed in early 2008. North West has advanced engineering and commercial marketing arrangements and is working on site grading for phase 1 through summer 2013. Major material acquisition and engineering should allow for foundation work to commence in late 2013 and phase 1 mechanical construction to commence in 2014, continuing through to commissioning the first phase of operation to commence in 2016.

### Products

- Ultra Low Sulphur Diesel, Diluent, Vacuum Gas Oil, Naptha

### Infrastructure

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- Road Access: Access from hwy 643
- Rail Access: No rail required

- Pipeline Access: Feedstock and product pipelines east and south from Project site TBD
- Power Provider: 240kV 3 phase substation at site

Code: NWU

Date: 2014-04