

**Proponent Name: Shell Canada Limited**

**Project Name: Carmon Creek Project**

**Date: March 16, 2009**

<b>Project Summary Table</b>			
Name of Company that will hold Approval:	Shell Canada Limited	Company Contact Name and Information:	Brent Mitchell Shell Canada Limited P.O. Box 100, Station M Calgary, Alberta T2P 2H5 Phone: 1-877-347-4355 E-mail: carmoncreek@shell.com
Company Website:	<a href="http://www.shell.ca/home/content/ca-en">http://www.shell.ca/home/content/ca-en</a>		
Type of Project (e.g., in-situ, mine, quarry, upgrader, etc.):	In-Situ Thermal Oil Sands Project		
Types of Activity (major project processes):	Central Processing Facilities (CPF), Cogeneration Power Plant, Powerline, Make-up Water Source, and Well Pads	New Project, Expansion or Modification:	An expansion project is proposed at the Peace River leases.
Project Location (Legal Land Description) and Municipality:	40 kilometres (km) northeast of Peace River (portions of Townships 84 to 86, Ranges 16 to 19, W5M). Northern Sunrise County	Life of Project (# years, YYYY - YYYY):	Approximately 35 years, 2014 to 2049 (first steam to production end)
Average Production Capacity per Year (specify units):	It is proposed to increase production up to 12,600 m <sup>3</sup> /day (approx. 80,000 barrel per day).	Power Source (If on site power generation describe quantity (MW) and facilities):	Three on-site 190 MW gas fired cogeneration plants are proposed with connection to Alberta Interconnected Electrical System. Excess power produced will be exported to the provincial grid system.
Nearest Residence (km):	The nearest permanent residence is approximately 10 km from the CPF location.	Private or Public Land:	The Project will be primarily located on Public Lands, with some development occurring within the White Zone.
Nearest FN Reserve(s) (name and km):	Woodland Cree First Nation Reserve 226 is about 12 km from the CPF.	Total Project Area (ha):	The EIA Project Area is estimated to be about 15,000 ha.
Total Area to be Disturbed (ha):	The total disturbance area is estimated to be approximately 2,000 ha.	Infrastructure Requirements (roads, pipelines, water intake, storage tankage):	Roads, well pads, central processing facility, brackish water supply, pipelines, electrical transmission and distribution, and storage tanks.
Method of Product Transport (e.g., pipeline, rail, truck):	Product will be sent via pipeline to the Haig Lake Terminal and then transferred to the Rainbow Pipeline.	Project Products	Diluted bitumen and electrical power.
Location of End Market:	Potential market opportunities include Shell's Canadian refineries, refineries in the Midwest and emerging in the US west coast.	Project By-Products	No project by-products are anticipated (ie. production of elemental sulphur is not planned).
Expected Types of Air Emissions (e.g., SO <sub>2</sub> , NO <sub>x</sub> , CO <sub>2</sub> ):	The primary air emissions include NO <sub>x</sub> , SO <sub>x</sub> and CO <sub>2</sub> from the cogeneration and steam generation facilities. H <sub>2</sub> S contained within the produced gas will be separated and injected to subsurface.	Expected Types of Effluent Releases (note the water bodies the	<u>Industrial Runoff:</u> <ul style="list-style-type: none"> <li>CPF runoff re-used in the process, or tested and released to surrounding watershed.</li> </ul> <u>Treated Domestic Wastewater</u>

		effluent will be released to):	(TDWW): <ul style="list-style-type: none"> <li>Construction Camp – secondary treatment and disposal by field drainage system (ie. no release to surrounding watershed).</li> <li>Operations Phase – domestic wastewater treatment by evaporative lagoon (no effluent release).</li> </ul>
Types of Wastes Generated:	<ul style="list-style-type: none"> <li>Construction Wastes</li> <li>Drilling Waste</li> <li>Produced and Make-Up Water Treatment Wastes</li> <li>Produced Solids</li> </ul>	Waste Management Facilities (i.e., Disposal Well, Salt Caverns, Landfill, or Third-Party):	<ul style="list-style-type: none"> <li>Liquid Disposal Well(s)</li> <li>Acid Gas Disposal Well(s)</li> <li>Landfill for water treatment wastes.</li> </ul>
Nearest Waterway/Waterbody (name and km):	Carmon Creek / Carmon Lake, Elder Creek, North Heart River and a Cadotte River Tributary are within the proposed Project Area. Peace River is about 20 km to the west.	Watercourse Crossings (type of crossing, any Class A to C waterbodies):	<ul style="list-style-type: none"> <li>Bridge/Culvert Road Crossings</li> <li>Underground/Aboveground Pipeline Crossings</li> <li>Elder Creek is classified as a Class C Watercourse, others in Project Area are Class D.</li> </ul>
Water Act Licence Required (Y/N/Unknown/NA. If yes: purpose, source and estimated volumes):	<ul style="list-style-type: none"> <li>A Water Act Licence will be requested to divert collected industrial runoff from the CPF to the process.</li> <li>No additional water withdrawal Licences will be requested from the Peace River for the Carmon Creek Project.</li> </ul>	Water Act Approval Required (Y/N/Unknown. If yes, purpose):	It is anticipated that a Water Act Approval will not be required for the Project.
Fisheries Act Authorization Required (Y/N/Unknown):	A Fisheries Act Authorization will not be required for the Project.	Navigable Waters Protection Act Authorization Required (Y/N/Unknown):	A NWPA Authorization will not be required.
Waterbodies Required (Y/N/Unknown/NA. If yes, # and ha):	No end pit lakes or compensation lakes are planned.	Nearest Water Well (km) (Domestic and Commercial):	Nearest Domestic Well is about 10 km from the CPF. Nearest Industrial Wells are located within about 5 km of the CPF.
Nearest Provincial Highway (# and distance):	Highway 986 is approximately 10 km from the proposed CPF location.	Access to Provincial Highway (no improv req/improv req/const req):	The Highway 986 intersection may require improvements. The extent is to be determined through the Traffic Impact Assessment.
Traffic Impact Assessment Required (Yes/No/Unknown):	A Traffic Impact Assessment is being planned as part of the EIA.	Pre-disturbance Land Use(s):	<ul style="list-style-type: none"> <li>Fish and wildlife habitat.</li> <li>Industrial use (Oil and Gas / Forestry)</li> <li>Recreational</li> </ul>

Projected Construction Start (Month/Year)	Start of construction is currently expected to commence by the end of 2011 (pending Shell's final investment decision).	Projected Operation Start (Month/Year)	First steam to the reservoir is currently anticipated by the end of 2014.
Reclamation Start and End (YYYY - YYYY):	Progressive reclamation will be conducted where possible throughout the project life. Final reclamation is planned post 2049.	Post-reclamation Land Use(s):	<ul style="list-style-type: none"> <li>• Fish and wildlife habitat.</li> <li>• Industrial use (Oil and Gas / Forestry)</li> <li>• Recreational</li> </ul>
Any Unique Environmental or Social Considerations (if yes, describe):	No unique environmental or social aspects are currently anticipated.	Historic Resources Impact Assessment Required (Y/N/Unknown):	A Historic Resources Impact Assessment is being planned as part of the EIA.
Estimated Construction Person-Years of Employment:	The total construction labour is estimated to be approximately 1,280 person-years.	Estimated Operation Persons-Years of Employment:	The estimated operation workforce is forecast to be 215 people for a 35-year period.
Construction or Operation Camp Required (Y/N/Unknown. If yes, on-site or off-site):	An on-site construction camp is being planned.	Method of Transport of Employees to Site (Construction and Operation):	<ul style="list-style-type: none"> <li>• Construction – possible flyin/flyout from Peace River and bussing.</li> <li>• Operation – bussed from local communities (Peace River).</li> </ul>
Date Stakeholder Engagement Started (Public/Aboriginal):	It is planned to issue a public information document in March 2009. Community and First Nations consultation will follow.	Aboriginal Groups Involved in Stakeholder Engagement:	<p>Shell plans to consult with the following groups:</p> <ul style="list-style-type: none"> <li>• Woodland Cree First Nation</li> <li>• Lubicon Lake Band</li> <li>• Duncan First Nation.</li> </ul> <p>The following groups will be notified:</p> <ul style="list-style-type: none"> <li>• Cadotte Lake Métis</li> <li>• Métis Region 6</li> <li>• Tall Cree First Nation</li> <li>• Beaver First Nation</li> <li>• Whitefish Lake First Nation</li> <li>• Mikisew Cree First Nation</li> <li>• Athabasca Chipewyan First Nation</li> <li>• Little Red River Cree First Nation</li> </ul>