

Project Summary Table

**SASOL Canada Holdings Limited.**

**Canada GTL Project**

<b>Project Summary Table</b>			
<b>Proponent Name:</b>	Sasol Canada Holdings Limited	<b>Date:</b>	<b>10 September</b>
<b>Project Name:</b>	Canada GTL (CGTL) <i>Final Project Name to be determined prior to filing of application</i>	<b>Company Contact Name and Information:</b>	Mike Nel Canada GTL Venture Development Manager
<b>Name of Company that will hold Approval:</b>	SASOL CANADA HOLDINGS LIMITED	<b>Company Website:</b>	<a href="http://www.sasolcanada.com">www.sasolcanada.com</a>
<b>Type of Project (e.g., in-situ, mine, quarry, upgrader, etc.):</b>	Gas to Liquids Facility	<b>New Project, Expansion, Additional Phase or Modification:</b>	New Project
<b>Projected Construction Start (Month/Year):</b>	Phase 1 First Half 2015	<b>Projected Operation Start (Month/Year):</b>	Phase 1, First Half of 2019 (Commissioning activities will commence in parallel from Q2 2018 onwards)
<b>Life of Project (# years, YYYY - YYYY):</b>	25+ Years (2017 to 2042+)	<b>Project Location (Legal Land Description and Longitude/Latitude) and Municipality:</b>	The proposed Canada GTL Project would be located in Strathcona County, within the entire Section 19, Township 55, Range 21, W4M, as well as the W ½ of Section 20, the N ½ and portions of the S ½ of Section 18, and a portion of the NW ¼ of Section 17, Township 55 Range 21, W4M. This is approximately four kilometers (km) northeast of the center of Fort Saskatchewan, Alberta and approximately 40 km northeast of the center of Edmonton, Alberta. The proposed site secured by Sasol is in an area zoned for heavy industrial development.  <b>Estimated Longitude/Latitude (D,M,S) of CGTL PDA:</b> <u>NW Corner:</u> '-113° 7' 25.989" W / 53° 46' 26.429" N <u>NE Corner:</u> '-113° 5' 14.232" W / 53° 46' 26.935" N <u>Centre Point:</u> '-113° 6' 24.654" W / 53° 45' 50.877" N

Project Summary Table

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<b>Project Summary Table</b>			
			<p><u>SE Point:</u> '-113° 5' 13.999" W / 53° 45' 40.399" N</p> <p><u>South Corner:</u> '-113° 6' 47.048" W / 53° 45' 0.802" N</p> <p><u>SW Corner:</u> '-113° 7' 26.070" W / 53° 45' 23.122" N</p> <p>Strathcona County</p>
<b>Total Project Area (ha):</b>	~526 ha	<b>Private, Federal or Provincial Land:</b>	Private
<b>Nearest Residence(s) (km):</b>	0.875k m to nearest residence	<b>Types of Activity (major project processes, components including capacity/size, if available):</b>	<ul style="list-style-type: none"> <li>• Autothermal reforming and steam methane reforming</li> <li>• Fischer–Tropsch synthesis</li> <li>• Hydrotreating (for Wax and Hydrocarbon Condensate treatment)</li> <li>• Hydrocracking (for Wax and Hydrocarbon Condensate treatment)</li> <li>• Isomerisation</li> <li>• Air separation</li> <li>• Steam generation</li> <li>• Power Generation</li> <li>• Water treatment and disposal wells.</li> <li>• Supporting Infrastructure (final product storage tanks, intermediate storage tanks, water storage, rail, roads, etc.)</li> </ul>
<b>Nearest First Nation Reserve(s) (name and km)</b>	Stoney Plain First Nation (46 km)	<b>Project Products:</b>	<ul style="list-style-type: none"> <li>• LPG</li> <li>• GTL Naphtha</li> <li>• GTL Diesel</li> <li>• Electricity</li> </ul>
<b>Power Source (If on site power generation describe quantity (MW) and facilities):</b>	Power will be imported from a third party utility company during start-up. During normal operation, the facility would export power to the transmission network. The onsite power generated is variable and interruptible. The average exported power could	<b>Method of Product Transport (e.g., pipeline, rail, truck):</b>	Pipelines and Rail Transport

Project Summary Table

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<b>Project Summary Table</b>			
	be ~91MW		
<b>Average Production Capacity per Year (specify units):</b>	Nominal design capacity of 96 000 BPD of LPG, GTL Naphtha and GTL Diesel. (Nominal is defined as an approximation of the projected facility capacity) The facility will be constructed in phases, each phase would have a nominal design capacity of 48 000 BPD Due to local circumstances such as gas composition and local fuel specifications, it is anticipated that the nominal designed facility will be able to achieve up to an instantaneous production capacity of 103 900 BPSD (51 950 BPSD per phase) of liquid fuels.	<b>Infrastructure Requirements (e.g., roads, pipelines, water intake, storage, tankage, etc.):</b>	<ul style="list-style-type: none"> <li>• Roads</li> <li>• Pipelines (LPG, GTL Naphtha, Raw water)</li> <li>• Use existing water intake infrastructure (third party) in the North Saskatchewan River</li> <li>• Rail connections</li> <li>• Telecommunication</li> <li>• Transmission Connection</li> <li>• Power lines</li> </ul>
<b>Location of End Market:</b>	Market for GTL products in western Canada primarily and secondary within California and the Pacific Northwest region	<b>Expected Types of Air Emissions (e.g., SO<sub>2</sub>, NO<sub>x</sub>, CO<sub>2</sub>):</b>	SO <sub>x</sub> , NO <sub>x</sub> , CO <sub>2</sub>
<b>Project By-Products:</b>	None	<b>Types of Wastes Generated:</b>	<ul style="list-style-type: none"> <li>• Spent catalyst – ~5590 m<sup>3</sup>/a</li> <li>• Guard beds and absorbents used throughout the process ~340 tpa</li> <li>• Ash ~ 4 tpd</li> <li>• Brine water - ~1180 tpd</li> <li>• Sanitary sludge – 7 tpd</li> </ul>
<b>Expected Types of Effluent Releases (note the water bodies the effluent will be released to):</b>	Brine water will be routed to disposal wells. Brine will not be released to water bodies	<b>Nearest Waterway/Waterbody (name and km):</b>	0.82 km to Astotin Creek 1.33 km to North Saskatchewan River
<b>Waste Management Facilities (i.e., Disposal Well, Salt Caverns, Landfill, or Third-Party):</b>	<ul style="list-style-type: none"> <li>• Onsite disposal wells (2)</li> <li>• Third party disposal facilities</li> <li>• Onsite Thermal Oxidation</li> </ul>	<b>EPEA Approval Required (Y/N/Unknown):</b>	Yes
<b>Watercourse Crossings (type of crossing, any Class A to C water</b>	No	<b>Water Act Licence Required (Y/N/Unknown. If yes: purpose, source and</b>	Yes <ul style="list-style-type: none"> <li>• Process Cooling and Steam Generation</li> </ul>

Project Summary Table

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<b>Project Summary Table</b>			
<b>bodies):</b>		<b>estimated volumes):</b>	<ul style="list-style-type: none"> <li>• North Saskatchewan River</li> <li>• 938 m<sup>3</sup>/h</li> </ul>
<b>Regulatory Board(s) (ERCB/NRCB/AUC):</b>	<ul style="list-style-type: none"> <li>• ERCB - Directive 51 approval for class II disposal well</li> <li>• AUC - Rule 7 approval for power generating plant</li> </ul>	<b>Water bodies Required (Y/N/Unknown/NA. If yes, # and ha):</b>	No.
<b>Water Act Approval Required (Y/N/Unknown. If yes, purpose):</b>	Yes, for the abstraction of water from the North Saskatchewan River via existing infrastructure	<b>Will any of the components or activities associated with the project affect fish and/or fish habitat? (Y/N)?</b>	No.
<b>Identify applicable sections in the Schedule to the Federal Comprehensive Study List Regulations: (Y/N/Unknown):</b>	None	<b>Identify applicable federal legislative or regulatory requirements referred to in the Law List Regulations (i.e. permits, licences, authorizations):</b>	None
<b>Are any works or undertakings proposed to take place in, on, over, under, through or across navigable water?</b>	No	<b>Nearest Water Well (km) (Domestic and Commercial):</b>	~0.21 km to domestic well ~0.45 km to commercial well
<b>Nearest Provincial Highway (# and distance):</b>	Highway 15: 60 m – 180 m away	<b>Access Improvements to Provincial Highway:</b>	Preliminary indications are none
<b>Traffic Impact Assessment Required (Yes/No/Unknown):</b>	No	<b>Total Area to be Disturbed (ha):</b>	~526 ha
<b>Identify Existing Land and Water Use(s), resource Management, or Conservation Plans Within or Near the Project Site:</b>	Agricultural and Industrial facilities	<b>Post-reclamation Land Use(s):</b>	Agricultural
<b>Decommissioning Start and End (YYYY-YYYY):</b>	At least 25 years after commissioning Dependent on the financial	<b>Reclamation Start and End (YYYY - YYYY):</b>	Approximately 5-10 years after decommissioning

Project Summary Table

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<b>Project Summary Table</b>			
	viability of the business at the appropriate time.		
<b>Unique Environmental or Social Considerations (Describe or None):</b>	None	<b>Historic Resources Impact Assessment Required (Y/N/Unknown):</b>	Yes
<b>Estimated Construction Person- Years of Employment:</b>	13,500	<b>Estimated Operation Persons-Years of Employment:</b>	22,250 over 25+ year operating period
<b>Construction or Operation Camp Required (Y/N/Unknown. If yes, on-site or off-site):</b>	No	<b>Method of Transport of Employees to Site (Construction and Operation):</b>	Busses and private transportation
<b>Will the project involve the manufacture and storage of explosives (Y/N):</b>	No	<b>Is there any federal authority that is, or may be, providing financial support to the Project (Y/N. If yes, identify the federal authority):</b>	No
<b>Date Stakeholder Engagement Started (Public/Aboriginal):</b>	26-4-2012	<b>Aboriginal Groups Involved in Stakeholder Engagement:</b>	<ul style="list-style-type: none"> <li>• Saddle Lake First Nation</li> </ul>
<b>Public Groups Involved in Stakeholder Engagement:</b>	<p>Public groups that will be invited to participate in the stakeholder engagement process will be all groups and individuals with a direct interest in land, such as landowners, residents and occupants within a 5 kilometre radius of the centre of the proposed facility site and other affected industry players, local authorities, municipalities, and other parties who have a right to conduct an activity on the land, such as Crown disposition holders and subsurface right holders</p> <ul style="list-style-type: none"> <li>• Also included will be stakeholder groups which</li> </ul>		

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<b>Project Summary Table</b>			
	<p>have been formed to ensure information/communication about developments in the area is available to a broad cross-section of individuals and groups including:</p> <ul style="list-style-type: none"><li>• Alberta Industrial Heartland Association</li><li>• Fort Air Partnership</li><li>• North Saskatchewan Watershed Alliance</li><li>• Northeast Capital Industrial Association</li><li>• Northeast Region Community Awareness Emergency Response</li></ul>		