

### Cold Lake Midzaghe Project Summary Table

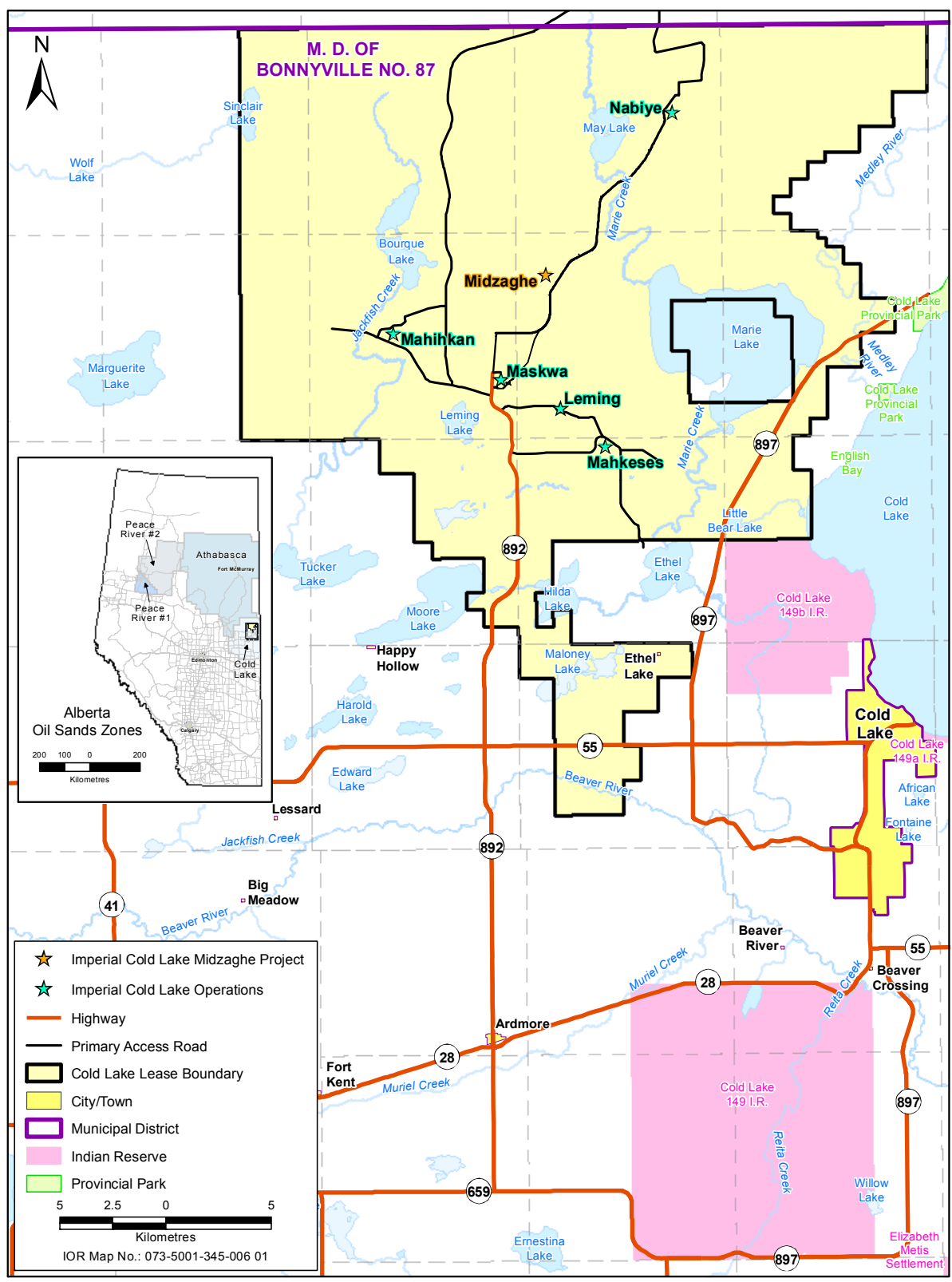
<b>Proponent Name:</b>	Imperial Oil Resources Limited	<b>Date:</b>	April 20, 2015
<b>Project Name:</b>	Cold Lake Midzaghe Project	<b>Company Contact Name and Information:</b>	Alan Kennedy – Environment and Regulatory Manager 587-476-2045 Alan.j.kennedy@esso.ca
<b>Name of Company that will hold Approval:</b>	Imperial Oil Resources Limited	<b>Company Website:</b>	<a href="http://www.imperialoil.ca">www.imperialoil.ca</a>
<b>Type of Project (e.g., in-situ, mine, quarry, upgrader, etc.):</b>	In-situ: solvent-assisted steam-assisted gravity drainage (SA-SAGD)	<b>New Project, Expansion, Additional Phase or Modification:</b>	Expansion of the existing Imperial Cold Lake Project
<b>Projected Construction Start (Month/Year):</b>	2019	<b>Projected Operation Start (Month/Year):</b>	2022
<b>Life of Project (# years, YYYY - YYYY):</b>	40 years, 2022 - 2062	<b>Project Location (Legal Land Description and Longitude/Latitude) and Municipality:</b>	Townships 65 and 66, Ranges 2 - 4, West of the Fourth Meridian  Municipality of Bonnyville
<b>Total Project Area (ha):</b>	Total Project Area = 35,644 ha (133 sections)	<b>Private, Federal or Provincial Land:</b>	Provincial Land
<b>Nearest Residence(s) (km):</b>	Marie Lake Cabin Site: 10 km  City of Cold Lake: 23 km  Town of Bonnyville: 45 km	<b>Types of Activity (major project processes, components including capacity/size, if available):</b>	Steam production and injection; solvent injection; bitumen production, collection, separation; water treatment; tankage; pipelines; and associated surface infrastructure
<b>Nearest First Nation Reserve(s) and Métis Settlements (name and km):</b>	Cold Lake First Nation, COLD LAKE 149B: 14 km	<b>Project Products:</b>	Bitumen (diluted pipeline grade)
<b>Power Source (If on site power generation describe quantity (MW) and facilities):</b>	Imperial Cold Lake Operations to provide power	<b>Method of Product Transport (e.g., pipeline, rail, truck):</b>	Existing pipeline system

<b>Average Production Capacity per Year (specify units):</b>	Approximately 7143 cubic meters (45,000 barrels)/calendar day	<b>Infrastructure Requirements (e.g., roads, pipelines, water intake, storage, tankage, etc.):</b>	Main access road (from Nabiye road), fuel gas pipelines, electrical power lines, diluent/solvent supply pipelines, dilbit pipelines, water source and disposal pipelines, bitumen storage, tanks, borrow sites
<b>Location of End Market:</b>	Bitumen shipped to Edmonton/Hardisty	<b>Expected Types of Air Emissions (e.g., SO<sub>2</sub>, NO<sub>x</sub>, CO<sub>2</sub>, etc.):</b>	SO <sub>2</sub> , NO <sub>x</sub> , N <sub>2</sub> , CO <sub>2</sub> , CO, VOCs, PM, fugitive hydrocarbons
<b>Project By-Products:</b>	None	<b>Types of Wastes Generated:</b>	Domestic waste, construction waste, operations waste: metal, filters, cement, effluent, water process sludge, used lubricants, and other oilfield waste
<b>Expected Types of Effluent Releases (note the water bodies the effluent will be released to):</b>	None	<b>Nearest Waterway/Waterbody (name and km):</b>	Marie Creek: 4 km  Bourque Lake: 5 km  Marie Lake: 5 km  May Lake: 5 km  Leming Lake: 7 km
<b>Waste Management Facilities (i.e., Disposal Well, Salt Caverns, Landfill, or Third-Party):</b>	Use existing Imperial Cold Lake Operations facilities	<b>EPEA Approval Required (Y/N/Unknown):</b>	Yes - amendment
<b>Watercourse Crossings (type of crossing, any Class A to C waterbodies):</b>	Yes, Marie Creek – others TBD	<b>Water Act Licence Required (Y/N/Unknown. If yes: purpose, source and estimated volumes):</b>	Yes - amendment
<b>Regulatory Board(s) (ERCB/NRCB/AUC):</b>	AER	<b>Waterbodies Required (Y/N/Unknown/NA. If yes, # and ha):</b>	None
<b>Water Act Approval Required (Y/N/Unknown. If yes, purpose):</b>	Yes, for stormwater diversion and use	<b>Will any of the components or activities associated with the project affect fish and/or fish habitat? (Y/N):</b>	Yes – Marie Creek crossing

<b>Identify applicable sections in the Schedule to the Federal <i>Comprehensive Study List Regulations</i>: (Y/N/Unknown):</b>	None	<b>Identify applicable federal legislative or regulatory requirements referred to in the <i>Law List Regulations</i> (i.e., permits, licenses, authorizations):</b>	None
<b>Are any works or undertakings proposed to take place in, on, over, under, through or across a navigable water?(Y/N):</b>	None	<b>Nearest Water Well (km) (Domestic and Commercial):</b>	Commercial: IOL - 5 km  Domestic: Dillingham Construction Ltd. - 6 km
<b>Nearest Provincial Highway (# and distance):</b>	Highway 892: 5 km	<b>Access Improvements to Provincial Highway:</b>	None
<b>Traffic Impact Assessment Required (Yes/No/Unknown):</b>	Unknown	<b>Total Area to be Disturbed (ha):</b>	Approximate total disturbance: 1500 ha
<b>Identify Existing Land and Water Use(s), Resource Management, or Conservation Plans Within or Near the Project site:</b>	Petroleum production  Cold Lake Sub-Regional Integrated Resource Plan  Lower Athabasca Regional Plan	<b>Post-reclamation Land Use(s):</b>	Forestry, fish, and wildlife
<b>Decommissioning Start and End (YYYY-YYYY):</b>	Decommissioning of initial well pads once depleted; approximately 2035-2040; decommissioning of CPF approximately 2062	<b>Reclamation Start and End (YYYY – YYYY):</b>	Reclamation continuous, approximately 2035-2080
<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>	Approximately 1500 person-years, including initial drilling	<b>Estimated Operation Persons-Years of Employment:</b>	Approximately 100 person-years per annum, including intermittent drilling

<b>Construction or Operation Camp Required (Y/N/Unknown. If yes, on-site or off-site):</b>	Construction: Yes Operations: No	<b>Method of Transport of Employees to Site (Construction and Operation):</b>	Buses, company vehicles
<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>	Aboriginal: 2Q 2015 Public: 3Q 2015	<b>Aboriginal Groups Involved in Stakeholder Engagement:</b>	Beaver Lake Cree Nation Cold Lake First Nation Heart Lake First Nation Kehewin Cree Nation Whitefish (Goodfish) Lake First Nation

<b>Public Groups involved in Stakeholder Engagement:</b>	Marie Lake Air and Watershed Society  Residents of Marie Lake  Residents of Cold Lake and Bonnyville  MD of Bonnyville  Local Oil and Gas Operators  Lakeland Industry & Community Association  Bonnyville Chamber of Commerce  Cold Lake Regional Chamber of Commerce  Local Mayors		
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★ Imperial Cold Lake Midzaghe Project  
★ Imperial Cold Lake Operations  
— Highway  
— Primary Access Road  
  Cold Lake Lease Boundary  
  City/Town  
  Municipal District  
  Indian Reserve  
  Provincial Park

5 2.5 0 5  
 Kilometres  
 IOR Map No.: 073-5001-345-006 01

- NOTES:**
- Cold Lake Lease Information compiled from IHS Energy June 2014.
  - Regional Roads are current to July 9, 2014.
  - Parks are current to July 11, 2014.
  - Imperial Cold Lake Operations current to October 2012.
  - Indian Reserves are current to March 2014.
  - Municipal Districts compiled from IHS Energy July 17, 2014.
  - Cities/Towns compiled from IHS Energy July 8, 2014.



**IMPERIAL OIL RESOURCES**  
**GRAND RAPIDS - ALL AREAS**  
**MIDZAGHE**  
**OVERVIEW MAP**

PROJECTION		DATUM		CONTRACTOR NAME		CONTRACTOR MAP NUMBER	
UTM 12N		NAD83		--		--	
DRAWN	CHECK	DESIGN	APPR.	DATE	SCALE	IOR MAP NUMBER	REV.
KM	EH	KM	ST	14 07 17	1:285,000	073-5001-345-006 01	0