



**Imperial Oil**

**Imperial Oil Resources Ventures Limited**  
237 Fourth Avenue South West  
P.O. Box 2480, Station "M"  
Calgary, Alberta  
Canada, T2P 3M9

Rick D. Pawluk  
Manager, Regulatory Affairs  
Mackenzie Gas Project

Tel. (403) 237-2864  
Fax. (403) 237-2208

March 29, 2007

**Via E-mail and Courier**

Joint Review Panel for the Mackenzie Gas Project  
Suite 302, Professional Building  
125 Mackenzie Road  
P.O. Box 2412  
Inuvik, NT X0E 0T0

Attention: Ms. Paula Pacholek, Panel Manager

Dear Ms. Pacholek:

Re: Mackenzie Gas Project  
Response to Joint Review Panel Information Request Round 5, Question 33

---

Attached is the Mackenzie Gas Project proponents' response to the Joint Review Panel's Information Request (IR) Round 5, Question 33, received January 24, 2007.

This response is being filed electronically. Hard copies will be sent to those that cannot access the electronic registry.

Please direct any communications regarding this submission to me.

Yours truly,

(original signed by)

Rick D. Pawluk  
Manager, Regulatory Affairs

Encl.

rdp/dmg

**JRP Information Request  
for Mackenzie Gas Project**

**Response to JRP Request for Information Round 5**

**Response Date: March 29, 2007**

---

**Environmental and Socio-Economic Commitments Tables**

<b>Question</b>	JRP_R5_33
<b>Reference</b>	<p>a) IORVL Response to Information Request (IR) 2.06 co-submitted by Environment Canada, Indian and Northern Affairs Canada (INAC), the Department of Fisheries and Oceans and the Government of the Northwest Territories (Exhibit # J-IORVL-00320)</p> <p>b) IORVL Response to IR 2.34 submitted by INAC (Exhibit # J-IORVL-00321)</p> <p>c) Mackenzie Gas Project Socio-Economic Agreement. Parties: the Government of the Northwest Territories and Imperial Oil Resources Ventures Limited, ConocoPhillips Canada (North) Limited, Shell Canada Energy (Exhibit # J-GNWT-00206 and J-IORVL-00897)</p>
<b>Preamble</b>	<p>On August 30, 2005, the Proponent filed a revised environmental commitments table in response to Information Request (IR) 2.06, co-submitted by Environment Canada, Indian and Northern Affairs Canada (INAC), the Department of Fisheries and Oceans and the Government of the Northwest Territories.</p> <p>On August 31, 2005 the Proponent filed a revised socio-economic commitments table in response to IR 2.34 submitted by INAC.</p> <p>Updated environmental and socio-economic commitment tables will provide a reference for discussion of monitoring, management and protection plans in the Topic 14 hearing session.</p>
<b>Request</b>	<p>Please file with the Panel revised environmental and socio-economic commitments tables that include all changes from August 2005. In your socio-economic commitments table, please distinguish between those socio-economic commitments contained in the Mackenzie Gas Project Socio-Economic Agreement (see Reference c) above) and those that are not contained in Reference c).</p>

**Response**

**Revised Commitment Tables**

As requested, attached are two sets of revised commitment tables:

- Tables JRP 5.33-1 to JRP 5.33-10 provide the updated biophysical commitments for the Mackenzie Gas Project, by topic:
  - Table JRP 5.33-1: Engineering Design, Topic 3a

**JRP Information Request  
for Mackenzie Gas Project**

**March 29, 2007**

**Response to JRP IR Round 5**

**JRP\_R5\_33**

- Table JRP 5.33-2: Anchor Field Design, Topic 3b
- Table JRP 5.33-3: Greenhouse Gas Emissions and Air Quality (including Noise), Topic 4
- Table JRP 5.33-4: Marine Environment, Marine Habitat and Marine Mammals and Birds, Topic 5
- Table JRP 5.33-5: Water Quality and Quantity, Fish and Aquatic Habitat, Topic 6
- Table JRP 5.33-6: Wildlife and Wildlife Habitat, including Birds and Bird Habitat, Topic 7
- Table JRP 5.33-7: Conservation Areas and Measures, Topic 8
- Table JRP 5.33-8: Harvesting and Other Land Use, Topic 12
- Table JRP 5.33-9: Biophysical Management Plans, Monitoring and Follow-up Programs, Topic 14a
- Table JRP 5.33-10: Cumulative Impacts, Topic 15
- Tables JRP 5.33-11 to JRP 5.33-15 provide the updated socio-economic commitments for the Mackenzie Gas Project, by topic:
  - Table JRP 5.33-11: Education, Training, Employment and Procurement, Topic 9
  - Table JRP 5.33-12: Project-Related Expenditures and Economic Benefits, Topic 10
  - Table JRP 5.33-13: Project-Related Economic Costs and Physical Infrastructure Impacts, Topic 11
  - Table JRP 5.33-14: Socio-Cultural Impacts, Topic 13
  - Table JRP 5.33-15: Socio-Economic Management Plans, Monitoring and Follow-Up Programs, Topic 14b

**Rationale for Major Revisions**

These revised environmental and socio-economic commitment tables incorporate changes since the response to information requests JRP IR EC 2.06 and JRP IR INAC 2.34 were filed in August 2005. Since then, a large amount of information on commitments has been provided in response to information requests and hearing testimony.

The biophysical commitments filed in the August 2005 response to JRP EC 2.06 were reviewed, considering the additional progress that has been made over the past 18 months. Although there has been no change in the intent of these commitments, additional details have been provided through the IR process and hearings as engineering design and regulatory consultation progressed. These details have been captured in the updated biophysical commitments lists.

The socio-economic commitments were revised to consolidate and abbreviate the commitments provided in the response to JRP INAC 2.34, without losing the intent of the commitments. Also, commitments made in subsequent information request responses added to the lists. The commitments made in the recently executed Socio-Economic Agreement (SEA) between the Mackenzie Gas Project and the Government of the Northwest Territories are also referenced in the updated socio-economic commitments lists. The commitments made in the SEA are presented verbatim, in italics, and the location of these commitments in the SEA are also provided.

The details related to new commitments will continue to be refined as detailed design progresses. However, the intent of the proponents' environmental and socio-economic commitments has not changed.

#### **Content and Organization of Biophysical Commitment Tables**

The biophysical commitments have been organized, and are numbered, by hearing topic. Commitments that are applicable to more than one hearing topic have been repeated in each applicable table and are cross-referenced to commitments in other topics.

Each biophysical table is divided into four main segments:

1. Commitment No. & Cross Ref. – which provides the sequential commitment number within the topic. Numbers that follow in brackets are cross references to the same or similar commitments made under another topic.
2. Summarized Commitment Statements – which identifies what the project proponents have committed to do.
3. Project Component – which identifies which project components the commitment is applicable to, such as the anchor fields, the project pipelines, or the pipelines and facilities.
4. Reference Location – which identifies:
  - where the original commitment statement appeared in the Environmental Impact Assessment (EIS), Additional EIS Information report, or other supplementary document
  - the number of any IR response or responses containing the commitment, including IR EC 2.06

- the location in the hearing transcript where a commitment was made
- the applicable undertaking number or, if the commitment was made in a letter or other document, the Exhibit number of that document

### **Content and Organization of Socio-Economic Commitment Tables**

The socioeconomic commitments have been organized, and are numbered, by hearing topic.

Each socio-economic table is divided into three main segments:

1. Commitment No. – which provides the sequential commitment number within the topic.
2. Summarized Commitment Statements – which identifies what the project proponents have committed to do. Statements in italics are commitments that have been presented in the Socio-Economic Agreements with the Government of the Northwest Territories, and are repeated verbatim.
3. Reference Location – which identifies:
  - where the original commitment statement appeared in the SEA, if applicable
  - where the original commitment statement appeared in the Environmental Impact Assessment (EIS), Additional EIS Information report, or other supplementary document
  - the number of any IR response or responses containing the commitment

All socio-economic commitments apply to all project components.

Note that in the event of any inconsistency or conflict among the Socio-Economic Agreement, relevant legislation or other agreements, the inconsistency or conflict will be resolved through the priority provision in Section 1.4.1 of the Socio-Economic Agreement, or as otherwise provided at law.

### **Definition of Terms for SEA Commitments in the Socio-Economic Commitment Tables**

**Aboriginal Authority** means, as the context requires, (i) the Inuvialuit Regional Corporation, (ii) the Gwich'in Tribal Council, (iii) the Sahtu Dene Council and any one or more of the seven land corporations created pursuant to the Sahtu Land Claim Agreement, or (iv) the Dehcho First Nations and any one or more council of the band or association or person representing one or more bands, associations or persons set out in the definition of "Deh Cho First Nations" in the Dehcho Interim Measures Agreement.

**Aboriginal Futures** means the society incorporated under the Societies Act (NWT) as number SOC 1634.

**Aboriginal Person** means an individual of an aboriginal peoples of Canada that has aboriginal and treaty rights in the Northwest Territories recognized and affirmed under section 35 of the Constitution Act, 1982.

**Anchor Fields** means, collectively, the Niglintgak Anchor Field, the Parsons Lake Anchor Field and the Taglu Anchor Field.

**Benefits and Access Agreements** means, collectively, the benefits agreements, access agreements and other related agreements relating to the Project or a portion of it, entered into on, before or after the date of this Agreement between any of the Operators and one or more Aboriginal Authorities or affiliates thereof, which agreements provide for the granting of access rights, the conferring of benefits commitments or the granting of other rights to, or the undertaking of other commitments by, such parties, as may be in effect and as may be amended from time to time.

**Construction** means, with respect to each portion of the Facilities, those pre-construction and construction-related activities (including Construction Activities) related to that portion that occur during the period of time beginning on the later of (i) the date of execution of this Agreement by all Parties, and (ii) the date of the Decision to Construct for such portion of the Facilities, and ending on the date on which Operations commence for such portion of the Facilities.

**Construction Activities** means, with respect to each portion of the Facilities, those physical construction activities occurring in the Northwest Territories related to such portion of the Facilities which occur after the date of the Decision to Construct for such portion of the Facilities.

**Content Plan** means a written plan submitted by prospective Contractors as part of the procurement process in respect of Project Work which sets out the proposed involvement of Aboriginal Persons, NWT Residents and NWT Businesses in the performance of a contract in respect of Project Work.

**Contractor** means a business that has contracted with an Operator or another Contractor to provide Project Work.

**Decision to Construct** means, with respect to each portion of the Facilities, the earliest of the date on which (i) the Owners make an unconditional decision to proceed with construction of such portion; or (ii) all conditions of a decision by the Owners to proceed with construction have been satisfied or waived for such portion; or (iii) all necessary Regulatory Authorizations for the commencement of construction of such portion have been received and physical construction activities thereon have actually commenced. For purposes of this definition, physical construction activities do not include surveying activities, environmental, archaeological and geotechnical investigations, data gathering and other activities of a similar investigative nature, and preparation of staging areas.

**Decommissioning** means, with respect to each portion of the Facilities, the surrender and abandonment of that portion in accordance with applicable Regulations.

**Dehcho Interim Measures Agreement** means the Deh Cho First Nations Interim Measures Agreement entered into on May 23, 2001 among the Deh Cho First Nations, as represented by the Deh Cho First Nations Grand Chief, and the Governments of Canada and the Northwest Territories, in force at the relevant time, taking into account any amendment, extension, replacement or application thereof.

**EIS** means the Environmental Impact Statement for the Project submitted to the Joint Review Panel and includes all information, amendments, updates and responses to requests for information supplied by or on behalf of the Project proponents.

**Facilities** means, collectively, the Anchor Fields, the Gas Gathering System and the Mackenzie Valley Pipeline, and **portion of the Facilities** means any one or more of them, as the context requires.

**Gas Gathering System** means that portion of the Facilities comprised of the proposed natural gas gathering system consisting of gathering lines from the outlet of the gas conditioning facilities at each of the Anchor Fields to and including a gas processing facility in the vicinity of the Town of Inuvik and including the Natural Gas Liquids Pipeline, together with all related temporary and permanent infrastructure located in the Northwest Territories, as any of them may be modified (including through the addition of compression), replaced, repaired, expanded or improved from time to time.

**Government** means:

- a. the Government of Canada;
- b. GNWT; or
- c. any local government established under the laws of the Northwest Territories;

depending upon which government has responsibility, from time to time, for the matter in question, including any replacement or successor government, and any government, department, agency or official duly authorized to act on behalf of any government described above.

**Joint Review Panel** means the panel established pursuant to the "Agreement for an Environmental Impact Review of the Mackenzie Gas Project" between the Mackenzie Valley Environmental Impact Review Board, the Inuvialuit as represented by the Inuvialuit Game Council and the federal Minister of the Environment.

**Listed Business** means, at any given time, a business that is included on a list provided or otherwise made available to any Operator by an Aboriginal Authority in accordance with the terms of any applicable Benefits and Access Agreements.

**Mackenzie Valley Pipeline** means that portion of the Facilities comprised of the proposed natural gas transmission pipeline or pipelines from the outlet of the gas processing facility in the vicinity of the Town of Inuvik to north-western Alberta, together with all related temporary and permanent infrastructure located in the Northwest Territories, as they may be constructed, modified (including through the addition of compression), replaced, repaired, expanded or improved from time to time.

**MGP** has the meaning ascribed thereto in Section 7.1.1a.

**MGP Parties** has the meaning ascribed thereto in Section 7.1.1b.

**Natural Gas Liquids Pipeline** means that portion of the Gas Gathering System comprised of the proposed liquids line from the outlet of the gas processing facility in the vicinity of the Town of Inuvik to an interconnection with an existing pipeline at Norman Wells, together with all related temporary and permanent infrastructure located in the Northwest Territories, as they may be constructed, modified, replaced, repaired, expanded or improved from time to time.

**Niglintgak Anchor Field** means that portion of the Facilities comprised of all wells, surface and subsurface equipment and flowlines proposed to produce the natural gas from Significant Discovery Licence 19 to the Gas Gathering System, together with all related temporary and permanent infrastructure located in the Northwest Territories, as they may be constructed, modified, replaced, repaired, expanded or improved from time to time.

**Northwest Territories** means the "Territories", as such word is defined in the Northwest Territories Act (Canada).

**NWT Business** means a business that makes a representation or provides evidence that is, in either case, reasonably relied on by an Operator or Contractor that such business complies with the legal requirements to carry on business in the Northwest Territories and complies with all of the following criteria:

- a. it maintains a permanent establishment of business in the Northwest Territories;
- b. it maintains a general manager of the permanent establishment in the Northwest Territories who is an NWT Resident;
- c. it undertakes the majority of its management and administrative functions (related to its operations in the Northwest Territories) in the Northwest Territories; and



- d. *it meets one of the following criteria, where for this purpose "NWT Resident" includes another NWT Business:*
  - i. *it is a limited liability company with at least 51 percent of the company's voting shares beneficially owned by one or more NWT Residents;*
  - ii. *it is a co-operative with at least 51 percent of its voting shares beneficially owned by NWT Residents;*
  - iii. *it is a sole proprietorship, the proprietor of which is an NWT Resident;*
  - iv. *it is a partnership or joint venture, the majority interest in which is owned by NWT Residents and in which the majority of benefits, under the partnership or joint venture agreement, accrue to NWT Residents; or*
  - v. *is a Listed Business.*

**NWT Resident** means any individual who makes a representation or provides evidence that is, in either case, reasonably relied upon by an Operator or Contractor that he or she primarily resides in a self-contained domestic establishment (other than a residence at a remote work site) in the Northwest Territories, when not in full time attendance at an educational institution inside or outside the Northwest Territories.

**Operations** means, with respect to each portion of the Facilities, those activities relating to the operation, maintenance, improvement, modification (including the addition of compression), replacement or expansion, where applicable, of that portion of the Facilities that take place during the period of time from the first day of commercial operations of those Facilities until the date on which Decommissioning commences. For avoidance of doubt, the commencement of Operations in the case of the Mackenzie Valley Pipeline shall follow the granting of leave to open it by the National Energy Board of Canada.

**Operators** means:

- a. *IORVL for the Mackenzie Valley Pipeline, the Gas Gathering System and the Taglu Anchor Field;*
- b. *ConocoPhillips for the Parsons Lake Anchor Field; and*
- c. *Shell for the Niglintgak Anchor Field;*

*or their respective lawful successors (including a sole operating Owner) or permitted assigns authorized to operate a portion of the Facilities for and on behalf of its Owners, and **Operator** means any one of the Operators, as the context requires.*

**Owner** means a person who is a beneficial owner, in whole or in part, of a portion of the Facilities or of the Project from time to time.

**Parsons Lake Anchor Field** means that portion of the Facilities comprised of all wells, surface and subsurface equipment and flowlines proposed to produce the natural gas from Significant Discovery Licences 30 and 32 to the Gas Gathering System, together with all related temporary and permanent infrastructure located in the Northwest Territories, as they may be constructed, modified, replaced, repaired, expanded or improved from time to time.

**Party** means GNWT or any Operator, and **Parties** means GNWT and any one or more of the Operators.

**POTC** means Pipeline Operations Training Committee.

**Primary Communities** means the communities of Aklavik, Colville Lake, Déline, Enterprise, Fort Good Hope, Fort Liard, Fort McPherson, Fort Providence, Fort Simpson, Hay River, Hay River Reserve, Inuvik, Jean Marie River, Kakisa, Nahanni Butte, Norman Wells, Paulatuk, Sachs Harbour, Trout Lake, Tsiigehtchic, Tuktoyaktuk, Tulita, Ulukhaktok and Wrigley, as any of them may be renamed from time to time.

**Project** means, collectively, the proposed and actual Construction, Operation and Decommissioning of each of the Facilities.

**Project Work** means the provision, undertaken primarily within the Northwest Territories, of any work, services, management, supervision, personnel, labour, materials, supplies or equipment related to the Project.

**Project Worker** means an individual who provides, primarily within the Northwest Territories, any work, services, management, supervision or labour related to the Project as an employee or Contractor of any Operator or Contractor.

**Public Transportation System** means the system comprised of all:

- a. highways (as the singular form of such term is defined in section 1 of the Public Highways Act (NWT)) that are publicly owned;
- b. ferries and any works necessary for the operation of ferries established and operated under section 27 of the Public Highways Act (NWT); and
- c. public airports (as the singular form of such term is defined in section 1 of the Public Airports Act (NWT)).

**Region** means any of:

- a. the Inuvialuit Settlement Region, as such term is defined in the Inuvialuit Final Agreement entered into on June 5, 1984 between the Committee for Original People's Entitlement, representing the Inuvialuit of the Inuvialuit Settlement Region, and the Government of Canada;

- b. *the Gwich'in Settlement Area, as such term is defined in the Gwich'in Comprehensive Land Claim Agreement entered into on April 22, 1992 between the Gwich'in Tribal Council and Her Majesty the Queen in Right of Canada;*
- c. *the K'ahsho Got'ine District, being the geographic area set out in pages 2 and 3 of Schedule "B" to the Sahtu Master Land Agreement;*
- d. *the Tulita/Déline District, being, collectively, the geographic area set out on pages, 2, 3 and 4 of Schedule "A" to the Sahtu Master Land Agreement and Parcels 174, 175, 176 and 177, as set out in Schedule II of Appendix E to the Sahtu Land Claim Agreement; or*
- e. *the Deh Cho territory, as such term is defined in the Dehcho Interim Measures Agreement, excluding lands that fall within any of Parcels 174, 175, 176 and 177, each as described in Schedule II of Appendix E to the Sahtu Land Claim Agreement.*

**Regulations** means all statutes, laws, regulations, orders and instruments (including any land claims agreements, self-government agreements or comprehensive land claim and self-government agreements implemented by federal enactment or both federal and territorial enactment, as required) made within the authority of a Government, and includes any other "regulations" as such term is defined in the Interpretation Act (Canada) or the Interpretation Act (NWT).

**Regulatory Authorization** means any authorization, approval, permit, certificate, licence or lease from a Government required under any applicable Regulations to carry out the Project or any part of it, including any document evidencing any interest in the lands on which any Facilities are expected to be or are situate.

**Sahtu Land Claim Agreement** means the Sahtu Dene and Metis Comprehensive Land Claim Agreement entered into on September 6, 1993 among the Dene of Colville Lake, Déline, Fort Good Hope and Tulita (formerly known as Fort Norman) and the Metis of Fort Good Hope, Tulita (formerly known as Fort Norman) and Norman Wells in the Sahtu Region of the Mackenzie Valley, as represented by the Sahtu Tribal Council, and Her Majesty the Queen in Right of Canada.

**Sahtu Master Land Agreement** means the Sahtu Master Land Agreement made as of the 6th day of May, 1994 among Tulita District Land Corporation Ltd., K'ahsho Got'ine District Corporation Ltd. and Déline Land Corporation.

**Taglu Anchor Field** means that portion of the Facilities comprised of all wells, surface and subsurface equipment and flowlines proposed to produce the natural gas from Significant Discovery Licence 63 to the Gas Gathering System, together with all related temporary and permanent infrastructure located in the Northwest Territories, as they may be constructed, modified, replaced, repaired, expanded or improved from time to time.

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-1: Mackenzie Gas Project Summary Commitments, Engineering Design – Topic 3a**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
3a-01	Reduce sunken ditch and ditch settlement proactively.	Applies to all pipelines.	Vol. 2, Sec. 4.3.3, Sec. 4.5.7.	JRP 2.07, INAC 2.24.	69, 72, 79	Vol. 9, p. 848, p. 849, p. 851, p. 882. Vol. 10, p. 922. Vol. 11, p. 1007. Vol. 12, p. 1204. Vol. 44, p. 4144.	J U-19. J U-93.
3a-02 (3a-11)	Monitor the right-of-way.	Applies to all pipelines.	Vol. 2, Sec. 4.6.1.2.	JRP 2.42, JRP 4.10, INAC 1.11WG, INAC 2.07, INAC 2.24, INAC 5.06.	101, 165, 287	Vol. 9, p. 865. Vol. 10, p. 960. Vol. 11, p. 1048. Vol. 12, p. 1123, p. 1127, p. 1128.	J U-19. J U-28.
3a-03	Use snow-ice pads on sensitive terrain, including the Kendall Island Bird Sanctuary.	Applies to anchor fields and all pipelines.	Vol. 2, Sec. 4.5.2.	EC 3.01.	63, 76	Vol. 9, p. 868.	J U-19. J U-28.
3a-04	Design and construct watercourse crossings to reduce effects on fish and fish habitat, according to mitigation toolbox and decision trees and in consultation with DFO. Crossing construction will consider industry practices as defined in CAPP, CEPA and CGA <i>Watercourse Crossings</i> (3rd Edition), adapted to project-specific and northern conditions.	Applies to all pipelines.	Vol. 2, Sec. 4.5.4.	INAC 2.04.	18	Vol. 9, p. 884.	J U-19.
3a-05	Conduct a pre-geotechnical verification program to select the right-of-way and a geotechnical verification program during clearing.	Applies to all pipelines.		JRP 5.01.	73	Vol. 10, p. 920, p. 979, p. 991. Vol. 11, p. 1013, p. 1062. Vol. 12, p. 1204. Vol. 43, p. 3981, p. 3982, p. 3983, p. 3985, p. 4012, p. 4053.	J U-19.

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-1: Mackenzie Gas Project Summary Commitments, Engineering Design – Topic 3a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
3a-06	Maintain slope stability.	Applies to all pipelines.	Vol. 2, Sec. 4.5.2.	JRP 2.37, DAS 1.18, INAC 2.26, SCC 1.07.	75, 77, 106, 166, 47, 51 and 78	Vol. 10, p. 966, p. 969, p. 984, p. 995. Vol. 11, p. 1024, p. 1097. Vol. 12, p. 1200. Vol. 43, p. 4033, p. 4035. Vol. 44, p. 4095.	
3a-07	Prepare emergency response plans (ERPs).	Applies to anchor fields and all pipelines.	Vol. 7.	DFO 1.68, EC 2.13, FSV 2.03, INAC 1.135S, GNWT 1.61, GNWT 2.25.	39, 258	Vol. 9, p. 894, p. 895. Vol. 12, p. 1128, p. 1200. Vol. 44, p. 4093.	
3a-08	Prepare granular resource plans (also known as pit development plans). Some of these plans are proprietary. The landowner's permission is required before the proponents can release the plans to any other party.	Applies to anchor fields and all pipelines.	Vol. 2, Sec. 7.1.4.	NRCAN 1.03, INAC 2.26.	52, 88, 167, 304	Vol. 12, p. 1224, p. 1244, p. 1245.	
3a-09	Update the geohazard assessment.	Applies to all pipelines.		INAC 5.01, INAC 5.06.		Vol. 43, p. 3987.	
3a-10	Prepare a pipeline Integrity Management Plan (IMP).	Applies to all pipelines.	Vol. 2, Sec. 4.6.1.2.	INAC 1.11WG, INAC 1.15WG, INAC 2.21, INAC 5.06.		Vol. 43, p. 3992, p. 4035.	J U-26.
3a-11 (3a-02)	Restore stream beds after constructing the right-of-way.	Applies to all pipelines.			154	Vol. 9, p. 885. Vol. 43, p. 4074.	
3a-12	Design for no loss of product for the design contingency earthquake (DCE).	Applies to all pipelines.	Vol. 2, Sec. 4.1, p. 4-1.			Vol. 9, p. 891.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-1: Mackenzie Gas Project Summary Commitments, Engineering Design – Topic 3a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
3a-13	Transport water to some camps by pipe to reduce truck traffic, where practical.	Applies to all pipelines.	Vol. 2, Sec. 6.6.	FSV 5.01.		Vol. 9, p. 856.	
3a-14	Prepare environmental management plans (EMP).	Applies to anchor fields and all pipelines.	Vol. 7.	JRP 2.05, JRP 2.08, SCC 5.04-2.	176, 177, 184, 185, 274, 275, 277, 278, 279, 291, 292, 293, 297, 319, 320	Vol. 11, p. 1021. Vol. 12, p. 1161, p. 1162, p. 1204.	J U-26.
3a-15	Reduce the project footprint.	Applies to anchor fields and all pipelines.	Vol. 2, Sec. 2.1.	JRP 1.48, JRP 4.04, EC 5.03.	71, 74		
3a-16 (3a-25) (11-14)	Use pilot vehicles on public highways, where required, during periods of high activity.	Applies to all pipelines.		DAS 1.30, FSV 2.26, GNWT 2.23.			
3a-17	Follow guidelines under the project's quality assurance processes, including the requirement that changes to slope designs be assessed by qualified engineers.	Applies to anchor fields and all pipelines.				Vol. 10, p. 997.	J U-26.
3a-18	Meet all environmental commitments for design.	Applies to all pipelines.			108	Vol. 11, p. 1092.	
3a-19	Operate the pipeline according to selected temperature guidelines to balance frost heave and thaw settlement.	Applies to Mackenzie gathering and Mackenzie Valley pipelines.	Vol. 2, Sec. 5.4.2, p. 5-21 & Project Update Sec. 2.2, p. 2.8.			Vol. 43, p. 3984.	
3a-20	Retain records of all data required to maintain pipeline integrity.	Applies to all pipelines.	Vol. 2, Sec. 4.6.1.2, p. 4-35.			Vol. 44, p. 4119.	
3a-21	Cool natural gas liquids (NGLs) to meet the NGL pipeline's temperature guidelines.	Applies to NGL pipeline.				Vol. 44, p. 4128.	
3a-22	Install and maintain erosion control measures to prevent sedimentation of streams because of thaw-related effects at banks and nearby slopes.	Applies to all pipelines.	Vol. 2, Sec. 4.5.3.3, p. 4-24.	JRP 1.38, JRP 4.10, JRP 5.01.	75, 101	Vol. 44, p. 4167.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-1: Mackenzie Gas Project Summary Commitments, Engineering Design – Topic 3a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
3a-23	Develop environmental abandonment plans according to the regulations in effect when abandonment occurs.	Applies to anchor fields and all pipelines.	Vol. 2, Example p. 5-51.	JRP 4.10, JRP 5.04, INAC 1.59E, INAC 1.75L.	104, 109, 110, 175, 278, 282, 286	Vol. 44, p. 4204.	
3a-24 (3a-10)	Monitor the installed pipelines during operations in compliance with the pipeline Integrity Management Plan (IMP).	Applies to all pipelines.	Vol. 2, Sec. 4.6.1.2, p. 4-34.	JRP 1.47, JRP 3.03, JRP 4.10, JRP 5.01, INAC 1.07WG, INAC 1.11WG, INAC 5.06, NRCAN 1.59.	288	Vol. 12, p. 1127.	
3a-25	Comply with applicable federal, territorial, provincial and municipal regulations, industry codes and standards and conditions associated with the CPCN, authorization and permits.		Vol. 2, Sec. 4.1, p. 4-1		86, 178, 257, 258, 259, 260, 263, 266, 280, 281, 283, 284, 285, 292, 315, 325, 336, 340, 341, 342		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-2: Mackenzie Gas Project Summary Commitments, Anchor Fields – Topic 3b**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
3b-1	Monitor seasonal flood levels relative to facility design elevations to assess the combined effects of natural processes and subsidence on flood levels at Niglintgak and Taglu.	Applies to Niglintgak and Taglu.		NRCAN 2.44.	157	Vol. 13, p. 1257.	
3b-2	Work with the regulators to establish environmental effects monitoring and management programs that include addressing the potential effects of subsidence.	Applies to Niglintgak and Taglu.			157	Vol. 62, p. 6131.	
3b-3	Perform additional coring at Niglintgak, primarily in reservoir sand units, and perform tests to validate material properties and compressibility values used in subsidence modelling.	Applies to Niglintgak.				Vol. 62, p. 6129.	
3b-4	Develop monitoring plans for casing performance and surface displacement associated with thaw subsidence as engineering progresses. Submit these plans to the National Energy Board as part of the well approval process.	Applies to all anchor fields.			306	Vol. 15, p. 1516.	
3b-5	Determine seismic load for final design for each producing facility. Give consideration to the updates that are currently being contemplated to the National Building Code of Canada (NBCC) regarding seismic loads and associated design. Use the NBCC provisions, especially design analysis methodology and requirements, for detailed hazard design assessment studies.	Applies to all anchor fields.		NRCAN 3.01.			
3b-6	Consult with stakeholders, including regulators and the hunters and trappers committees (HTCs), as part of the process of identifying the most suitable disposal location for the spoil resulting from dredging Kittigazuit Bay.	Applies to Niglintgak.		NRCAN 2.06.	68		
3b-7	Review final sampling locations in the Kittigazuit Bay with Fisheries and Oceans Canada, Environment Canada and Transport Canada.	Applies to Niglintgak.		EC 5.04.	68		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-3: Mackenzie Gas Project Summary Commitments, Greenhouse Gasses and Air Quality (including Noise) – Topic 4**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
4-1	Use equipment that meets relevant air emissions regulations. Where regulations do not exist in the Northwest Territories, use equipment that meets Canadian Council of Ministers of the Environment (CCME) guidelines and guidance from other jurisdictions, such as Alberta. For example: <ul style="list-style-type: none"> <li>compressor turbines (CCME)</li> <li>reciprocating engines (Alberta)</li> <li>flaring (Alberta)</li> <li>ambient air quality (territorial, federal)</li> </ul>	Applies to anchor fields and pipelines.	Vol. 5, Sec. 2.3.2, p. 2-25, Sec. 2.4.2, p. 2-97.	DMGA 1.01, SEL 1.02, SEL 1.05, EC 1.3012, EC 1.0030, EC 1.3008, EC 1.3011, EC 1.0034.	1a, 1b, 3,4,5, 187, 189	Vol. 58, p. 5644, 5645.	J-IORVL-00821.
4-2	Ensure that incinerators meet CCME guidelines and Canada-wide standards, as follows: <ul style="list-style-type: none"> <li>incinerators at camps larger than 120 persons will meet the CCME guideline, including design and continuous emission monitoring (CEM) requirements</li> <li>smaller incinerators will meet Canada-wide standard through segregation of waste</li> <li>incinerators will be operated by trained personnel</li> </ul> Consult with GNWT and Environment Canada on plans for incineration.	Applies to anchor fields and pipelines.		EC 1.0030, EC 1.3008, EC 1.0034.	1, 218	Vol. 58, p. 5644, 5672-74.	J-IORVL-00775. J-IORVL-00821.
4-3	Consider efficiency in equipment selection. This provides a balanced approach in selecting equipment, not necessarily focusing on an individual pollutant.	Applies to anchor fields and pipelines.	Vol. 5, Sec. 2.3.2, p. 2-25, Sec. 2.4.2, p. 2-97.	DMGA 1.01, SEL 1.02, SCC 2.18.	2, 6		
4-4	Avoid allowing vehicles to idle, except in essential situations, such as under extremely cold conditions.	Applies to anchor fields and pipelines.	Vol. 5, Sec. 2.3.2, p. 2-25, Sec. 2.4.2, p. 2-97.		7	Vol. 58, p. 5646.	J-IORVL-00821.
4-5	Implement the Canadian Association of Petroleum Producer's Best Management Practice <i>Management of Fugitive Emissions at Upstream Oil and Gas Facilities</i> , as defined and periodically updated through EUB Directive 60.	Applies to anchor fields and pipelines.		EC 1.3014, EC 2.04.	8	Vol. 58, p. 5647.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-3: Mackenzie Gas Project Summary Commitments, Greenhouse Gasses and Air Quality (including Noise) – Topic 4 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
4-6	Apply good site management practices for dust suppression, to avoid community impacts.	Applies to anchor fields and pipelines.	Vol. 5, Sec. 2.3.2, p. 2-25.	JRP 1.28, 3.02.	9		J-IORVL-00821.
4-7	Conduct passive monitoring for nitrogen dioxide (NO <sub>2</sub> ) at facilities.  Consider potential effects of oxides of nitrogen (NO <sub>x</sub> ) emissions on vegetation when monitoring vegetation at Parsons Lake as part of caribou range conditioning monitoring.	Applies to anchor fields and pipelines.	Vol. 5, Sec. 2.5.2, p. 2-108.		10, 190	Vol. 58, p. 5645.	J-IORVL-00821.
4-8	Develop an emissions management plan in consultation with Environment Canada and GNWT.	Applies to anchor fields and pipelines.	Vol. 7, Sec. 3.2, p. 3-2.		186, 188	Vol. 58, p. 5649.	J-IORVL-00775. J-IORVL-00821.
4-9 (7-14) (7-53)	Design facilities using standard engineering noise control to meet EUB Guide 38 noise guidelines for remote sites, such as 40 dB at 1.5 km.	Applies to anchor fields and pipelines.	Vol. 5, Sec. 3.2.4.2, p. 3-8, Sec. 3.3.2, p. 3-16.	HC 1.02, SEL 1.01.	11, 12, 191		
4-10 (7-11)	Schedule discretionary activities in sensitive areas to reduce effects resulting from noise.	Applies to anchor fields and pipelines.		HC 1.01.	14		
4-11	Ensure that work-site noise levels meet the appropriate occupational guidelines.	Applies to anchor fields and pipelines.		HC 1.02, HC 2.03.	13		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-4: Mackenzie Gas Project Summary Commitments, Marine – Topic 5**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Transcript	Undertaking or JRP Exhibit
5-1	Ensure that marine carriers manage bilge and ballast water to comply with applicable regulations i.e., the Ballast water management regulated under <i>Canada Shipping Act</i> , known as Ballast Water Control and Management regulations, SOR/2006-129.	Applies to anchor fields.	Vol. 5, Sec. 6.3.1.2, p. 6-30, Sec. 6.3.2, p. 6-40. Vol. 7, Sec. 3.3.8.4, p. 3-13.	DFO 1.17, YG 2.05, EC 1.0002.	66, 208, 209, 210	Vol. 54, p. 5144, 5145, 5210, 5213.	J U-120.
5-2	Ensure that marine carriers have procedures, understand and comply with principles for accidents and malfunctions, and have adequate spill response plans.  The Environmental Management Plan for Water Resources and Waste Management, and Emergency Response Plans for marine activities, will contain appropriate mitigations and plans.	Applies to anchor fields.	Vol. 7, Sec. 3.3.8.4, p. 3-13.	GNWT 2.20, TC 1.03, 1.04, 1.07, YG 2.05.	254, 255, 256	Vol. 54, p. 5138, 5144, 5145, 5146, 5210, 5213.	
5-3	Select dredging and sediment control methods that comply with <i>Fisheries Act</i> authorization.	Applies to Niglintgak.	Vol. 5, Sec. 6.3.2, p. 6-40.	NRCAN 1.47, 1.40, 2.06, DFO 1.39, 1.44.	67		
5-4	Gather detailed information for dredging permit at Kittigazuit and gas conditioning facility area, finalize location of the gas conditioning facility, and continue consulting with DFO as barge landing and dredging plans are finalized.	Applies to Niglintgak.		DFO 1.20, 1.51, NRCAN 1.31, 1.47.	68		
5-5	Monitor dredging activities for water quality impacts.	Applies to Niglintgak.	Vol. 5, Sec. 6.4.2, p. 6-70.	JRP 1.33.	162	Vol. 55, p. 5404.	
5-6	Collect sediment information in summer of 2005 for Disposal at Sea and gas conditioning facility set-down site. Program delayed until 2007.	Applies to Niglintgak.		DFO 1.20.			
5-7	Move barge (gas conditioning facility) during early August to mid-September via the Kittigazuit route.  Timing could extend into late September, early October.	Applies to Niglintgak.		DFO 1.22.			
5-8	Inspect dredge equipment before use and store fuel in double-walled vessels.  Fuel will be stored in dredge hull with secondary containment.	Applies to Niglintgak.		DFO 1.44.			

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-4: Mackenzie Gas Project Summary Commitments, Marine – Topic 5 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Transcript	Undertaking or JRP Exhibit
5-9 (14a-68)	Control speed of heavy lift ships to 6 knots and wet tow barges to 12 knots.  Use marine mammal monitors on board during transit. Advise captains to be vigilant about watching for whales.  Incorporate these requirements into the Wildlife Management Plans for marine mammal mitigation.	Applies to all anchor fields.		DFO 1.45.			
5-10	Dredge after annual Beluga harvest, nominally August 15 <sup>th</sup> or earlier, with permission from Fisheries Joint Management Committee, Inuvialuit Game Council and hunters and trappers committees (HTCs).	Applies to Niglintgak.		DFO 1.46.		Vol. 54, p. 5143, 5199.	
5-11	Provide detailed plan and obtain approval for transporting the gas conditioning facility modules at least 60 days before transport.	Applies to Niglintgak.		DFO 1.51.			
5-12	Provide further details on the effects of dredging, if required by the Disposal at Sea permitting process and DFO authorizations.	Applies to Niglintgak.		DFO 1.67.			
5-13 (14a-68)	Provide aerial reconnaissance flight to identify aggregations of marine mammals before transit of heavy lift vessel and barges in Canadian Beaufort waters. Use trained northerners as marine mammal monitors with protocols vetted by DFO and IGC.	Applies to all anchor fields.		DFO 2.01, YG 2.05.		Vol. 54, p. 5147, 5168.	
5-14	Provide marine mammal monitors on transit vessels and dredger when operating. Will be preferably local hires trained for the job.	Applies to Niglintgak (transit and dredging), Taglu and Parsons Lake (transits).		DFO 2.01.			
5-15	Clean the gas conditioning facility modules before they leave fabrication yard.	Applies to Niglintgak.		YG 2.05.			
5-16	Comply with Marine Protected Area regulations when they are finalized.	Applies to all anchor fields.				Vol. 54, p. 5138.	
5-17	Confirm use of Series 400 barges by bathymetry before transit. Transfer to Series 1500 barges, if necessary, to avoid any dredging at Tuktoyaktuk harbour.	Applies to Parsons Lake.		EC 4.01.			

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-4: Mackenzie Gas Project Summary Commitments, Marine – Topic 5 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Transcript	Undertaking or JRP Exhibit
5-18	Continue consultation with local stakeholders and DFO, Environment Canada (EC) and Transport Canada on Kittigazuit S-bend dredging plans, and provide mitigation discussed in IR EC 5.04.	Applies to Niglintgak.		EC 5.04.			
5-19	Use the best practices available at time of execution for marine activities, as per examples in IR JRP 5.05.	Applies to all anchor fields.		JRP 5.05.		Vol. 54, p. 5138, 5146.	
5-20	Coordinate Kittigazuit S-bend activities to avoid interrupting community shipping during dredging.	Applies to Niglintgak.				Vol. 54, p. 5153.	
5-21	Involve other stakeholders and the Yukon government in discussions on marine activities for staging modules as plans progress.	Applies to all anchor fields.					J U-10.
5-22	Route barging activity to avoid waterbodies being used by concentrations of birds, especially moulting or brood rearing flocks, where practical.	Applies to all anchor fields.	Vol. 5, Sec. 10.3.2, p. 10-57.	JRP 1.33.	149		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-5: Mackenzie Gas Project Summary Commitments, Water Quality and Quantity and Fish and Aquatic Habitat – Topic 6**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Transcript	Undertaking or JRP Exhibit
6-1 (3a-04) (3a-10)	Design and construct watercourse crossings to reduce effects on fish and fish habitat, according to mitigation toolbox and decision trees and in consultation with DFO. Crossing construction will consider industry practices, as defined in CAPP, CEPA and CGA <i>Watercourse Crossings</i> (3rd Edition), adapted to project-specific and northern conditions.	Applies to all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-70. Vol. 7, Sec. 4.8, p. 4-57.	DFO 1.57, DFO 1.08, DFO 1.26, INAC 1.74L.	16, 17, 18, 20, 22, 23, 25, 26, 27, 28, 308, 309	Vol. 48, p. 4632, Vol. 63, p. 6189, 6222, 6256.	
6-2	Design and construct temporary road watercourse crossings to reduce effects on fish and fish habitat, considering industry practices as defined in CAPP, CEPA and CCA <i>Watercourse Crossings</i> (3rd Edition), adapted to project-specific and northern conditions.	Applies to all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-70. Vol. 5, Sec. 4.3.2, p. 4-27.		33, 57, 58		
6-3	Design and construct watercourse crossings to ensure pipeline integrity and reduce environmental effects. Provide required design information to appropriate regulators in project permit applications.	Applies to all pipelines.		EC 1.0003, NRCAN 1.20, INAC 2.05, INAC 2.23.	19, 24		
6-4	Whenever practical, use clear span bridges or culverts on all-weather roads to cross Active I watercourses. Structures will be designed to ensure fish passage.	Applies to all pipelines.			31, 32		
6-5	Apply appropriate mitigation, such as increased burial depth or insulation, at pipeline watercourse crossings where frost bulbs could affect overwintering fish habitat. These include: <ul style="list-style-type: none"> <li>sites with overwintering fish habitat, without sufficient flow to prevent excess icings</li> <li>sites which might freeze to the bottom, but have sufficient groundwater so that large icings could form and affect downstream fish habitat</li> </ul>	Applies to all pipelines.		NRCAN 1.10, DFO 2.04, DFO 2.03.	21	Vol. 48, p. 4636.	J U-108.
6-6 (3a-22) (6-10)	Locate construction activities, including borrow sites, away from waterbodies, where practical, and according to regulatory requirements.	Applies to anchor fields and all pipelines.	Vol. 5, 7.3.2.3, Vol. 5, Sec. 6.3.2, p. 6-41.	INAC 2.26.	29, 52, 144		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-5: Mackenzie Gas Project Summary Commitments, Water Quality and Quantity and Fish and Aquatic Habitat– Topic 6 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Transcript	Undertaking or JRP Exhibit
6-7	Follow the <i>Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters</i> (Wright and Hopky, 1998) if it is necessary to use in-water explosives.	Applies to all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-70.	NRCAN 2.56.	30		
6-8	Source water from lakes and other waterbodies according to: <ul style="list-style-type: none"> <li>the <i>Protocol for Water Withdrawal for Oil and Gas Activities in the Northwest Territories</i> (Cott and Moore, 2003), unless permission is otherwise granted</li> <li>water use permits</li> <li>consideration of community input and traditional knowledge</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-70. Vol. 7, Sec. 3.3.7, p. 3-11, Sec. 3.3.2.2, p. 3-8, Sec. 3.3.4, p. 3-9 to 3-10.	EC 1.0003, INAC 1.43WQ, GNWT 1.27, GNWT 1.28, GNWT 1.29, GNWT 2.19.	34, 35, 193, 194, 196, 197, 198, 199, 200, 201, 203	Vol. 48, p. 4637.	
6-9	Reduce effects of release of treated wastewater on receiving waterbodies by: <ul style="list-style-type: none"> <li>meeting water use permit conditions for surface release</li> <li>using alternative approved disposal methods, such as deep well injection</li> <li>considering community input and traditional knowledge</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-71. Vol. 7, Sec. 3.3.8.2, p. 3-12, Sec. 3.3.9, p. 3-13.	DFO 1.36, DFO 1.15, GNWT 1.27, GNWT 1.28, GNWT 1.29, GNWT 1.30, GNWT 1.31, GNWT 1.35, GNWT 2.19, EC 1.0024, EC 1.0039, HC 1.10, JRP 3.02.	36, 37, 195, 207, 211, 307	Vol. 48, p. 4638-39. Vol. 63, p. 6235.	
6-10 (3a-22) (6-6)	Implement drainage, erosion and sediment controls, such as grading and ditching, to direct runoff through silt fences, sediment traps, vegetation, berms, or isolation areas, as appropriate for the location.  Monitor effectiveness of controls through routine inspection.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-71, Sec. 4.3.2, p. 4-37, Sec. 7.1.2.2, p. 7-4.	EC 1.0009, NRCAN 1.10, NRCAN 1.30, NRCAN 1.33, NRCAN 1.39, NRCAN 1.43, INAC 1.39, INAC 1.77L, INAC 2.24, INAC 2.26.	46, 53, 64, 144, 321	Vol. 48, p. 4633.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-5: Mackenzie Gas Project Summary Commitments, Water Quality and Quantity and Fish and Aquatic Habitat– Topic 6 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Transcript	Undertaking or JRP Exhibit
6-11 (3a-11)	Reduce long-term sediment transport to waterbodies by: <ul style="list-style-type: none"> <li>reducing disturbance next to the streambed</li> <li>reclaiming disturbed areas, such as bed, banks and approach slopes, to stable conditions, grade and contours</li> <li>using long-term erosion control measures on slopes and stream banks, where required</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-71, Sec. 6.3.2, p. 6-41.	EC 1.0009, NRCAN 1.10, DFO 1.26.	47, 48, 49, 50, 51		
6-12 (3a-01)	Implement measures to maintain natural drainage patterns of subsurface and surface water flow, such as breaks in the roach at watercourse crossings.  Re-establish drainage where it might be blocked and where ponding occurs along the right-of-way and roads, when required.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 4.3.2, p. 4-26 to 4-28.	DFO 1.54, NRCAN 1.24.	54, 55, 56, 61, 62, 65		
6-13	Maintain sufficient permeable surface area at borrow sites to ensure recharge, as local conditions allow.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 4.3.2, p. 4-27.	INAC 2.26.	60		
6-14 (14a-27)	Implement management practices, contingency plans, mitigation and emergency response plans, to prevent and address leaks and spills.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 4.3.2, p. 4-27, Sec. 7.3.2.3, p. 7-71.	EC 1.0036.	39, 40, 41, 42, 43, 44, 45, 127	Vol. 63, p. 6262.	
6-15	Set back facilities and developed areas from waterbodies, or provide protection from flooding according to regulatory requirements.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 5.4.2, p. 5-104.		59		
6-16	Test hydrostatic test water before use. The following treatments and additives will be considered : <ul style="list-style-type: none"> <li>filtering to remove suspended sediments</li> <li>adding freeze-point depressant to prevent freezing during testing</li> <li>adding corrosion inhibitors to prevent internal corrosion of the pipe</li> <li>adding oxygen scavengers for use during in-situ testing at facility sites</li> </ul>	Applies to all pipelines.	Vol. 7, Sec. 3.3.8.2, p. 3-12.		205, 206, 307		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-5: Mackenzie Gas Project Summary Commitments, Water Quality and Quantity and Fish and Aquatic Habitat– Topic 6 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Transcript	Undertaking or JRP Exhibit
6-17	Consult with the community of Fort Providence, DFO and barge operators in assessing the effects of increased barge size and barge traffic, to determine appropriate mitigation, including: <ul style="list-style-type: none"> <li>• barge scheduling</li> <li>• emergency response and waste management</li> <li>• potential monitoring</li> </ul>	Applies to anchor fields and all pipelines.		DGGDC 2.01, DGGDC 2.02, DFO 5.02.		Vol. 48, p. 4645, 4649, 4663. Vol. 63, p. 6264, 6345.	J U-88.
6-18	Design and construct barge landing sites to control sediment releases in accordance with DFO requirements.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 6.3.2, p. 6-40.		67		
6-19 (14a-23) (3a-02)	Develop monitoring programs in consultation with DFO and other regulators. Preliminary monitoring plans consist of: <ul style="list-style-type: none"> <li>• compliance monitoring for water use, wastewater discharge and sediment concentrations during crossing construction</li> <li>• effects monitoring at selected watercourse crossings</li> <li>• monitoring pipeline integrity or post-construction monitoring of the right-of-way for erosion, scour, drainage and frost-bulb-induced icings</li> </ul> Effects monitoring will follow a before-after, control-impact (BACI) design. Results of monitoring programs will be used for decision making using an adaptive management approach. This could involve additional mitigation or revised monitoring programs, as required.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 4.4, p. 4-63, Sec. 5.6, p. 5-163, Sec. 6.4, p. 6-69, Sec. 7.4, p. 7-189. Vol. 7, Sec. 3.3.5, p. 3-10 to 3-11.	INAC 2.07, INAC 2.10, INAC 2.24, EC 1.0009, NRCAN 1.55, NRCAN 1.38, DFO 1.13, DFO 1.36, DFO 2.08.	150, 151, 152, 153, 154, 155, 156, 158, 159, 160, 161, 163, 164, 202, 204	Vol. 63, p. 6190, 6198, 6226-6227, 6280-6282.	
6-20	In keeping with the DFO Policy for the Management of Fish Habitat, develop and implement measures to compensate for habitat that is harmfully altered, disrupted or destroyed by the project. Specific compensation measures will be developed as locations, designs and construction methods are finalized, and in consultation with the DFO and local Aboriginal communities, if and as applicable. If required, compensation measures will preferentially be applied within the local study area assessed by the project and be associated with existing project activities.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3	DFO 1.57	15	Vol. 48, p. 4627	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-1 (12-35) (8-1)	Develop an Access Management Control Plan for the project. Consult with all appropriate regulators and any affected communities as part of developing this plan.  Ensure that the Wildlife Plan incorporates applicable community concerns, considers health and safety, and addresses regulatory requirements that will guide the decision-making process for wildlife protection.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.2 & 10.3.  Vol. 7, Sec. 3.7.1.	INAC 1.139S, DTFN 2.06 & 2.12a, GRRB 2.05 & 2.06, EC 2.15, GNWT 2.08, GTC 2b.14.	84, 267	Vol. 59, p. 5821.	
7-2	Reduce the effects of increased access on wildlife, and hunting and trapping by: <ul style="list-style-type: none"> <li>creating a dogleg in the right-of-way at crossings of existing roads in forested areas</li> <li>coordinating with government authorities and communities to control access</li> <li>using slash berms in forested areas for access control</li> </ul>	Applies to all pipelines.	Vol. 7, Sec. 3.7.3.1	GNWT 2.08, GTC 2b.14.	269		
7-3 (12-4)	Roll back cleared vegetation in a pattern that does not leave a recognizable trail, where appropriate. This will reduce accessibility and visibility to humans and predators.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56.		118		
7-4	Place barriers, such as large berms, rolled-back slash or rock piles, across the right-of-way at key entrance points, to limit public access.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2.		125		
7-5 (12-27) (14a-39)	Use slash and timber as rollback on steep slopes.  Use rollback where available at locations along a pipeline right-of-way for access control.  Determine specific locations for using rollback material during construction.	Applies to all pipelines.	Vol. 7, Sec. 4.5.3.	JRP 1.48.	299		
7-6	Follow aircraft flight guidelines, such as flight corridors and minimum altitudes, except for aerial pipeline patrols.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56, 10-57.	JRP 1.33, HC 1.01, GNWT 1.111, GRRB 2.05, EC 2.18, JRP 5.15.	120	Vol. 59, p. 5824. Vol. 86, p. 8559.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-7	Ensure that flight plans include minimum altitudes to ensure obstacle clearance as specified on the appropriate IFR/VFR charts as well as compliance with regional permit conditions in the ISR.	Applies to anchor fields and Mackenzie gathering pipelines.	Vol. 7, Sec. 3.6.3.4.	EC 2.18. JRP 5.15.	265	Vol. 46, p. 4472. Vol. 86, p. 8644.	
7-8 (12-5)	Prohibit the recreational use of all-terrain vehicles and snowmobiles by construction personnel, while working-on the pipeline rights-of-way or construction sites.  Ensure that project staff report any incidents or collisions with wildlife to the proponent's representative, who will notify the local wildlife authorities and the local police department, as appropriate.	Applies to anchor fields and all pipelines.	Vol. 7, Table 4-2.				
7-9	Prohibit intentional destruction of wildlife unless authorized or required for safety reasons.	Applies to anchor fields and all pipelines.		JRP 1.33.	132		
7-10 (12-28)	Review with local trappers all beaver dams that have been identified as needing to be removed to facilitate construction, at least one month before construction starts.  Give trappers the opportunity to trap the affected beaver colonies before construction starts.	Applies to all pipelines.	Vol 5, Sec. 10.3.2, p. 10-57. Vol. 7, Table 4-2.		145		
7-11	Schedule potentially disturbing discretionary activities to occur outside of the most sensitive periods when birds are present, where practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33, GNWT 1.111, NC 1.02.	148		
7-12	Route barge activity to avoid waterbodies being used by concentrations of birds, especially moulting or brood-rearing flocks, where practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33.	149		
7-13 (8-3) (14-71)	Develop wildlife management plans and species-specific protection plans.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10. Vol. 7, Sec. 3.	JRP 2.34, GNWT 1.115, SCC 5.03-2, SCC 5.04-1.		Vol. 67, p. 6733. Vol. 74, p. 7386, p. 7387, p. 7418. Vol. 75, p. 7473, p. 7474.	
7-14 (8-4) (4-9)	Reduce the volume, duration and frequency of noise-producing activities, where practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	GNWT 1.111, EC 2.18.	146	Vol. 59, p. 5822. Vol. 68, p. 6912.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-15	Design and construct above-ground pipelines at suitable heights considering all-season wildlife movements.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.3.2, p. 10-57.		139		
7-16	Use suitable techniques to avoid encounters with caribou, when caribou are present or moving through an area, including: <ul style="list-style-type: none"> <li>altering project activities temporarily</li> <li>requiring that construction activity yields to caribou on roads and rights-of-way</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.3, p. 10-56, 10-57.	GRRB 2.05, GNWT 1.115.	136	Vol. 59, p. 5785.	
7-17	Manage project activities in barren-ground caribou winter ranges, between October and January, to limit interaction with caribou, if practical.  Avoid clearing and installing pipe in woodland caribou habitat in April and May, to reduce potential effects on calving caribou, when possible.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-57.	JRP 1.33, GRRB 2.05.	138	Vol. 86, p. 8602, 8604, 8605.	
7-18 (8-3)	Prepare boreal caribou protection plans before construction starts, as required, for the Northwest Territories and Alberta. Complete construction in the boreal caribou range as early as possible in the winter and according to the final Caribou Protection Plan approved by ASRD.	Applies to all pipelines and ancillary NGTL project.	Vol. 7, Sec. 3.7.3.5.	DTFN 2.12a, WWF 5.01.			
7-19	Train workers on how to avoid wildlife interactions.	Applies to anchor fields and all pipelines.			271	Vol. 67, p. 6702, p. 6785.	
7-20	Provide project information to the GNWT's Environment and Natural Resources to assist in regional wildlife management.	Applies to anchor fields and all pipelines.				Vol. 74, p. 7418.	
7-21	Allocate funding for barren-ground caribou telemetry and range condition studies.	Applies to Parsons Lake only.				Vol. 74, p. 7418.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-22	Support wildlife management initiatives by: <ul style="list-style-type: none"> <li>providing all project environmental inspectors with wildlife training</li> <li>providing project workers with basic wildlife training</li> <li>ensuring that procedural guidelines related to wildlife protocols are followed</li> <li>ensuring that environmental inspectors are adequately trained in local traditional knowledge, mitigation practices and record keeping</li> <li>reviewing environmental protection measures with contractors</li> <li>providing relevant supplemental field documentation, such as guidelines, project directives and special contact information</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.6.	JRP 1.33.	271		
7-23	Consult territorial and federal wildlife agencies, and local hunters and trappers, to determine the location of known wildlife dens.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-57.	GRRB 2.06.	142		
7-24	Develop protocols for managing potential interactions between bears and humans, including measures to deter bears from entering camps and other facilities, according to Safety in Bear Country: A Reference Manual (Resources, Wildlife and Economic Development).	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.5. Vol. 5, Sec. 10.3.2.	SCC 1.09, GRRB 2.06.	141		
7-25	Limit clearing near critical habitats and wildlife features, such as active nest sites, bear dens and mineral licks, when practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33, GNWT 1.110, GNWT 1.111, GRRB 2.05.	115		
7-26 (8-9)	Conduct pre-construction surveys to identify active nests or bear dens.  Protect these areas by using appropriate timing and buffers to limit disturbance, where practical, and reduce the probability of accidental clearance of critical habitat.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33, EC 1.2005, EC 1.2019, GNWT 1.110, GRRB 2.06, EC 2.21, DTFN 2.12a.	114, 143	Vol. 75, p. 7473, p. 7474.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-27	Enhance off-site habitat, or implement restoration and wildlife habitat enhancement programs, if required.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.5.	JRP 1.33.	134		
7-28	Limit disturbance to riparian vegetation communities, where practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33.	116		
7-29	Maintain buffer zones between access roads and other infrastructure sites and riparian zones associated with streams, lakes or wetlands, where practical, except where waterbodies need to be crossed by a road.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.		140		
7-30	Limit disturbance to drainage areas by designing appropriate drainage control measures, and maintain a buffer zone, where practical, between wetland features and rights-of-way.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.		144		
7-31 (12-30)	Prohibit all project workers, including northern residents, from hunting and fishing while on the job site.  Ensure that wildlife is not harvested, harassed, harmed or fed by any project staff.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56. Vol. 7, Sec 7.2.3, Table 4.2.	JRP 1.33, GNWT 2.08.	121		
7-32 (8-11) (12-31) (14a-69)	Maintain contact with hunters and trappers committees, renewable resource councils, hunters and trappers associations, co-management boards, the Canadian Wildlife Service and the Department of Resources, Wildlife and Economic Development to advise them of incidents involving wildlife, such as ungulates, bears and SARA species.  Report all animal incidents to the proponents' representative or environmental monitor, who will take the necessary action.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2. Vol. 7, Table 2-4.	JRP 1.33.	113	Vol. 59, p. 5764.	
7-33	Consider using fencing where wildlife needs to be kept out of particular areas because of safety and conservation.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.4.2.	SCC 1.09.	128		
7-34	Have helicopter pilots circle potential landing sites before landing, to ensure that the terrain is safe and that wildlife is not located in the immediate area.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.6.3.4.				

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-35	Address community guidance and concerns related to wildlife, and apply suitable planning and mitigation measures, to ensure that best management practices related to wildlife are followed throughout the project.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.2.2.		268		
7-36	Develop plans for construction and drilling to cover: <ul style="list-style-type: none"> <li>• spills and uncontrolled releases</li> <li>• loss of well control</li> <li>• wildfires</li> <li>• heritage resource discoveries</li> <li>• rare or endangered wildlife, or rare plant discoveries</li> <li>• weather changes</li> <li>• erosion of soils by water</li> <li>• siltation of watercourses</li> <li>• mud releases from horizontal directional drilling for pipeline construction</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 5.2.4.	GNWT 1.114.	313		
7-37 (8-6)	Assess and determine suitable mitigation measures for the following, if they are discovered during construction: <ul style="list-style-type: none"> <li>• rare or endangered wildlife</li> <li>• a site-specific wildlife habitat feature</li> <li>• a rare plant</li> <li>• an uncommon vegetation community</li> <li>• a traditional collecting site</li> </ul> Undertake site assessment and steps to protect the discovery. Notify applicable government agencies, as required.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 5.2.4.	GNWT 1.116, JRP 2.34.	318		
7-38	Reduce adverse affects on wildlife by: <ul style="list-style-type: none"> <li>• constructing the pipelines during winter</li> <li>• scheduling operations activities to limit effects</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 12.2.9.4.		70		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-39	Restrict the length of an open ditch and limit the time that the trench will be left open, to reduce interferences with wildlife.  Ensure that open ditches are backfilled as much as practical, by the end of the workday, to reduce hazards to wildlife.  Limit the height of the trench crown at obvious wildlife trails.	Applies to all pipelines.	Vol. 7, Table 4-7.				
7-40	Avoid having pipeline and access corridors parallel to potential animal movement corridors, such as riparian areas, where practical.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2, Sec. 10.4.2.	JRP 1.33.	117		
7-41	Leave gaps in the rollback at obvious wildlife trails.  Leave breaks in the surface material, trench spoil and grade spoil windrows at drainage courses and obvious wildlife game trails, where practical.  Leave periodic gaps in the pipe string where known wildlife trails intersect with the pipeline right-of-way, where practical. Ensure that breaks in the pipe coincide with gaps in surface material, grade material, snow and rollback windrows.	Applies to all pipelines.	Vol 7, Sec. 4.5.3, 4.5.6, Table 4-7.		129		
7-42	Leave gaps in windrowed snow at obvious crossings of wildlife trails and in areas of critical wildlife habitat.	Applies to all pipelines.	Vol. 7, Table 4-6.				
7-43	Create gaps during construction while stringing pipe and storing equipment and materials.  Maintain open trenches for only short periods of time to avoid disrupting wildlife movements.	Applies to all pipelines.	Vol. 5, Sec. 10.4.2.	JRP 1.33, GRRB 2.05.	129		
7-44	Require that project vehicles yield to wildlife. Require vessels and barges yield to marine mammals identified by independent, onboard marine mammal monitors.	Applies to anchor fields and all pipelines.		JRP 1.33.	133		
7-45 (14a-50)	Hire wildlife monitors or environmental monitors from local communities during construction, when practical.  Ensure that a wildlife monitor is on site during drilling to assess potential wildlife conflicts.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.  Vol. 7, Table 4-12.	AIYA 1.01, EC 1.1003, INAC 1.67E, JRP 1.33, GRRB 2.05, EC 1.5002, SCC 5.03-1, SCC 5.03-2.	112, 179	Vol. 59, p. 5809, p. 5810.  Vol. 67, p. 6765.	



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-46 (14a-51)	Monitor the geographical extent of habitat losses and re-establishment through progressive reclamation.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.6.2, p. 10-352.		170		
7-47 (12-20)	Monitor community wildlife harvest statistics.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.6.2.	JRP 1.33, GTC 2b.14.	172		
7-48	Monitor the success of selected wildlife species at pipeline right-of-way crossings.	Applies to all pipelines.	Vol. 5, Sec. 10.6.2, pg 10-352.	JRP 1.33.	173		
7-49	Monitor the behaviour of selected wildlife species toward activities and facilities during all phases of the project. Monitor sensory disturbance, within the zone of influence, such as movement, feeding and resting.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.6.2.	JRP 1.33, GNWT 1.115.	171	Vol. 67, p. 6781. Vol. 74, p. 7386, p. 7387. Vol. 75, p. 7450.	
7-50 (14a-55)	For species requiring special attention: <ul style="list-style-type: none"> <li>monitor the responses of selected species to activities and facilities during all phases of the project.</li> <li>consider the potential for long-term site habitat in planning for site reclamation</li> <li>develop protocols for storing and disposing of food, petroleum and other chemicals, including daily incineration of garbage</li> <li>develop protocols for managing potential interactions between bears and humans, including measures to deter bears from entering camps and other facilities.</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.5, p. 3-55.	GNWT 1.115.	270		
7-51 (8-10)	Incorporate into project mitigation and monitoring strategies, baseline information on species at risk and new guidelines for managing effects regarding wildlife and species at risk, where possible.	Applies to anchor fields and all pipelines.		NC 1.04.	135		
7-52	Examine the pipeline trenches for trapped animals at the start of each day and before conducting any activity, such as lowering-in or backfilling, that has the potential to harm an animal in the trench.	Applies to all pipelines.	Vol. 7, Table 2-4.				
7-53 (4-9)	Maintain a maximum noise level of 40 dBA at 1.5 km from any project facility, which is just above the upper end of the range of noise found in wilderness areas. This should eliminate the effect of noise on study area wildlife.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 5.4.6.5.		146	Vol. 68, p. 6912.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-54 (14a-70)	Base protection measures and management techniques for wildlife resources on site-specific conditions or habitat to be protected.  Undertake preconstruction wildlife surveys, where required, immediately before starting right-of-way or site preparation.  Have environmental inspectors on site during construction to determine the presence or absence of high-value wildlife species.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 4.3.1. Vol. 7, Table 4-6.	DTFN 2.06, JRP 2.35, DTFN 2.12a.	300		
7-55	Develop protection plans, with input from communities, to protect wildlife and sources of traditionally used plants.	Applies to anchor fields and all pipelines.				Vol. 26, p. 2310	
7-56	Use existing access instead of creating new access, where practical, for construction and operations.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33, GRRB 2.05.	124		
7-57	Prohibit the recreational use of project roads and rights-of-way by project staff during construction.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2.	GRRB 2.05.	123		
7-58	Ensure that pipelines and heavily travelled roads are separated by more than 100 m, where practical.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2.		137		
7-59	Reclaim seasonal roads when they are no longer required for construction or operations.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33.	122		
7-60	Schedule potentially disturbing project activities when most birds are absent from the area, i.e., from October to April, where practical.  Plan activities to minimize impacts during critical nesting and staging periods for migratory birds, i.e., in the spring and fall.  Continue to work with Environment Canada to address its concerns regarding sensitive bird habitat.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33, GNWT 1.111, NC 1.02, NC 1.05, GNWT 1.115.	147	Vol. 68, p. 6908, p. 6911, p. 6912.	
7-61	Avoid clearing and construction, where practical, during sensitive periods for wildlife, such as bird breeding season, early in the denning period for bears or during the calving season for ungulates.	Applies to anchor fields and all pipelines.	Vol 5, Sec. 10.3.2, p. 10-56.	JRP 1.33.	131	Vol. 67, p. 6781.	
7-62 (8-13)	Avoid conducting project activities within 500 m of an active raptor nest during nesting season, where practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33, GNWT 1.111, EC 2.21.	119		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-63	Limit grubbing to the ditchline and areas to be graded.	Applies to all pipelines.	Vol. 5, Sec. 9.3.3.2, p. 9-58.		90		
7-64	Restrict herbicide use near rare plants, vegetation communities of concern, or traditionally used plants and collecting sites.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 9.42, p. 9-133, p. 9-137.		85		
7-65	Leave surfaces where vegetation was not completely removed to be reclaimed through natural recovery.	Applies to all pipelines.	Vol. 5, Sec. 9.3.3.2, p. 9-68.		89		
7-66 (8-6)	Flag or fence sensitive areas for protection.	Applies to anchor fields and all pipelines.			87		
7-67 (12-25)	Salvage the timber cleared from the right-of-way, where required, for erosion control, watercourse embankment construction, temporary bridge structural components and wood chip production, if the timber is of acceptable quality.	Applies to all pipelines.		JRP 1.36.	94		
7-68	Use only project-approved third-party waste management infrastructure and services.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.4.7.2.	DFO 1.15, EC 1.0030.	233		
7-69	Identify and classify waste types. Provide proper handling, transportation and storage (waste containers will be selected based on waste type, transport requirements and preventing wildlife attraction). Ensure proper waste treatment and disposal. Provide suitable documentation for all waste management activities, i.e., a waste tracking system.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.4.3, Sec. 3.4.5.	EC 1.0030, EC 1.0034, EC 2.15.	220		
7-70	Design waste management plans to be used all year, to avoid attracting grizzly bears and wolverines to project sites.	Applies to anchor fields and all pipelines.				Vol. 47, p. 4620.	
7-71	Implement adaptive management plans, and work with communities and regulators throughout the construction and operation of the project.	Applies to anchor fields and all pipelines.		DTFN 2.11.		Vol. 67, p. 6703.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-6: Mackenzie Gas Project Summary Commitments, Wildlife and Wildlife Habitat, Including Birds and Bird Habitat – Topic 7 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
7-72 (12-15)	<p>Prevent or control effects on wildlife and wildlife habitat, before drilling and construction begins in the Inuvialuit Settlement Region (ISR).</p> <p>Prepare detailed wildlife management plans that incorporate:</p> <ul style="list-style-type: none"> <li>• feedback obtained during the regulatory review of the EIS</li> <li>• traditional knowledge</li> <li>• wildlife-related community concerns</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.1, Sec. 3.7.2.2 (Table 3-4), Sec. 3.7.3, Sec. 3.7.3.1, Sec. 3.7.3.2, Sec. 3.7.3.3, Sec. 3.7.3.4, Sec. 3.7.4.2.	GNWT 1.115. GRRB 2.06.	272	Vol. 59, p. 5782. Vol. 67, p. 6733, p. 6734.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-7: Mackenzie Gas Project Summary Commitments, Conservation Areas and Measures – Topic 8**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or JRP Exhibit
8-1 (7-1) (12-35)	Use access management, for protected areas, as the primary mitigation measure for controlling the extent of access of other potential land users, such as non-traditional hunters, timber harvesters and tourists.	Applies to anchor fields and all pipelines.	Vol. 6B, Sec. 7.2.3, p. 7-20.	INAC 2.34.	See INAC 2.34 Commitments Table		
8-2	Use access management techniques, at specified locations, that could include: <ul style="list-style-type: none"> <li>rolling back slash and timber to prevent access along the pipeline right-of-way</li> <li>installing slash berms across the pipeline right-of-way or winter road easements</li> <li>planting trees or shrubs at potential access points, to visually screen the pipeline right-of-way or road easements</li> </ul> These access controls will be left in place through operations, if needed. Follow all government guidelines and regulations for activities in protected areas. If this is not practical, submit a request for a variance of the guidelines or regulations, if permissible.	Applies to all pipelines.	Vol. 6B, Sec. 7.2.3, P. 7-20.	INAC 2.34.	See INAC 2.34 Commitments Table		
8-3 (7-13)	Implement a wildlife management plan, species specific protection plan and an access management program.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10. Vol. 7, Sec. 3.	JRP 2.34, GNWT 1.115, SCC 5.03-2, SCC 5.04-1.		Vol. 46, p. 4451. Vol. 67, p. 6733. Vol. 74, p 7386, p. 7387, p. 7418. Vol. 75, p. 7473, p. 7474.	
8-4 (4-10) (7-14)	Manage project activities in sensitive areas to reduce the effects of noise	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 3.2.4.2, p. 3-8, Sec. 3.3.2, p. 3-16, Sec. 10.3.2, p. 10-56, 10-57, Sec. 10.6.2, p. 10-352.	HC 1.01, JRP 1.33, GNWT 1.111, GRRB 2.05, EC 2.221, EC 2.18.	14, 119, 138, 171	Vol. 59, p. 5822. Vol. 68, p. 6912.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-7: Mackenzie Gas Project Summary Commitments, Conservation Areas and Measures – Topic 8 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or JRP Exhibit
8-5 (14a-68)	Ensure that marine activities comply with the proposed regulations, for the Tarium Nirvutait Marine Protected Area, including transit and dredging at Niglintgak during construction.  Comply with the current version of the Beluga Management Guidelines.	Applies to Niglintgak.				Vol. 54, p. 5138.	
8-6	Implement protection measures to avoid or reduce environmental disturbance when constructing the project footprint, including: <ul style="list-style-type: none"> <li>• rare or endangered species</li> <li>• site-specific wildlife features</li> <li>• rare plants</li> <li>• uncommon vegetation communities</li> <li>• traditional collecting sites</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 9.42, p. 9-133, p. 9-137. Vol. 5, Sec. 9.3.2.1, p. 9-58. Vol. 5, Sec. 10.3.2, p. 10-56. Vol. 7, Sec. 4.6.3, p. 4-50. Vol. 7, Sec. 4.6.4, p. 4-51. Vol. 7, Sec. 4.6.5, p. 4-52. Vol. 7, Sec. 4.6.6, p. 4-54. Vol. 7 5.2.4, p. 5-7 to 5-8.	JRP 1.33, GNWT 1.116, GRRB 2.05, INAC 1.74L, EC 1.2007, DAS 2.04 JRP 2.34.	85, 87, 116, 124, 304, 306, 318		J-IORVL-00004.
8-7	Locate rare plant populations before construction begins.	Applies to anchor fields and all pipelines.	Vol. 5 9.3.2.1, p. 9-58. Vol. 7 5.2.4, p. 5-7 to 5-8.	JRP 1.33, GNWT 1.116, JRP 2.34, NC 1.04.	92, 135, 318		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-7: Mackenzie Gas Project Summary Commitments, Conservation Areas and Measures – Topic 8 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or JRP Exhibit
8-8	Comply with all regulatory requirements regarding the SARA species and their habitat.	Applies to anchor fields and all pipelines.		NC 1.04.		Vol. 46, p. 4453.	
8-9 (7-26) (7-54)	Manage project interactions with SARA-listed wildlife, by conducting preconstruction surveys of denning sites, or nesting areas.	Applies to anchor fields and all pipelines.	Vol. 5 10.3.2, p. 10-56 & 57. Vol. 7 3.7.3.5, p. 3-55. Vol. 7 5.2.4, p. 5-7 to 5-8. Vol. 7, Sec. 4.3.1 and Table 4-6.	JRP 1.33, GNWT 1.110, GNWT 1.111, GNWT 1.115, GNWT 1.116 GRRB 2.05, GRRB 2.06, EC 2.21 EC 1.2005, EC 1.2019, DTFN 2.06, DTFN 2.12a NC 1.04.	114, 115, 116, 119, 134, 135, 143, 270, 318	Vol. 46, p. 4452, p. 4453. Vol. 31, p. 2792, p. 2793, p. 2839.	
8-10	Develop a Wildlife Management Plan, a Waste Management Plan and safety protocols that address the attraction of, and disturbance to, SARA-listed wildlife species. Update these plans as new baseline information is obtained for SARA-listed species.  Contribute to the development of the NWT's species-at-risk recovery strategies by participating in the Canadian Association of Petroleum Producers (CAPP).	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-57. Vol. 7, Sec. 3.7.1, p. 3-47, Sec 3.7.35, p. 3-55.	GNWT 1.115; SCC 5.03-2; SCC 5.04-1 NC 1.04, SCC 1.09, GRRB 2.05, GRRB 2.06, EC 2.06, EC 2.15.	135, 141, 142, 143, 267, 270	Vol.46, p. 4453, p. 4473. Vol. 47, p. 4621. Vol. 31, p. 2793, p. 2797. Vol. 67, p. 6733.	
8-11 (7-32) (12-31)	Maintain contact with hunters and trappers committees, renewable resource councils, hunters and trappers associations, co-management boards, the Canadian Wildlife Service and the Department of Environment and Natural Resources to advise them of incidents involving wildlife, e.g., ungulates, bears and SARA species.  Report all incidents involving animals to the proponents' representative or environmental monitor, who will take necessary action.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56. Vol. 7, Table 2-4.	JRP 1.33.	113	Vol. 59, p. 5764.	
8-12 (7-62)	Avoid conducting project activities within 500 m of an active raptor nest during nesting season, where practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56 & 57.	JRP 1.33, GNWT 1.111, EC 2.21.	119		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-7: Mackenzie Gas Project Summary Commitments, Conservation Areas and Measures – Topic 8 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or JRP Exhibit
8-13	Support Environment Canada in its efforts to understand the extent of the yellow rail range by documenting observations during future right-of-way works in the range extension area.	Applies to anchor fields and all pipelines.				Vol. 47, p. 4620, p. 4621.	
8-14	Develop caribou protection plans with NOVA Gas Transmission Ltd (NGTL).	Applies to ancillary project.	Vol. 5, Sec. 10.3.2, p. 10-57 & B 8. Vol. 7, Sec. 3.7.3.5.	JRP 1.33, GRRB 2.05, WWF 5.01.	136-139	Vol. 31, p. 2787, p. 2793, p. 2787, p. 2845. Vol. 46, p. 4453.	
8-15	Protect heritage and cultural resources that are encountered by the project.  Address impacts to known heritage sites before construction begins, to the degree possible.  Continue to involve community members and seek their advice on the locations of heritage sites.	Applies to anchor fields and all pipelines.	Vol. 1, Sec. 6.9. Vol. 6B, Sec. 8.9.1, p. 8-26, Sec. 8.9, p. 8-74 & 8-76. Vol. 6B, Sec. 8.9.1, p. 8-26. Vol. 7 4.3.2, p. 4-14. Vol. 7 5.2.3, p. 5-6 to 5-7.	INAC 2.34 Commitments Table.	295, 317	Vol. 31, p. 2796, p. 2837. Vol. 32, p. 2910, p. 2911. Vol. 46, p. 4451, p. 4456.	
8-16	Complete a heritage resource assessment of the effects of the project.  Abide by any regulatory requirements established by the GNWT and Alberta Community Development relative to heritage resources.  Inform the GNWT of changes to the project footprint made after the heritage resources impact assessment (HRIA) is complete to determine if additional archaeological work is required in areas not examined during the HRIA.	Applies to anchor fields and all pipelines.	Vol. 1, Sec. 6.9. Vol. 6, Sec. 8.9.1.	INAC 2.34	N/A - INAC 2.34 Commitments Table	Vol. 31, p. 2796. Vol. 32, p. 2911. Vol. 46, p. 4456.	J-IORVL-00004.



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-7: Mackenzie Gas Project Summary Commitments, Conservation Areas and Measures – Topic 8 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or JRP Exhibit
8-17	Determine mitigation strategies for heritage resources through discussions with the Prince of Wales Northern Heritage Centre and local communities.  Provide a Management Plan for field personnel. Use the plan as a guideline for site protection if a discovery is made.	Applies to anchor fields and all pipelines.	Vol. 6B, Sec. 8.9.1, p. 8-26, Sec. 8.9, p. 8-74 & 8-76.	INAC 2.34	N/A - INAC 2.34 Commitments Table	Vol. 31, p. 2796. Vol. 32, p. 2910.	
8-18	Assess any archaeological, heritage or palaeontological resources that are discovered during the design and construction phases, and determine suitable mitigation measures. Notify the applicable government agencies, as required.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 5.2.3, p. 5-6 to 5-7.	INAC 2.34	317 INAC 2.34 Commitments Table		
8-19	Comply with Inuvialuit community conservation plans and finalized regional land use plans, when finalized, such as GSA.	Applies to anchor fields and all pipelines.	Vol. 6, Sec. 7.	INAC 1.120S, INAC 1.72E.		Vol. 31, p. 2793, p. 2797.	
8-20	Support INAC and the GNWT's protected area strategy.	Applies to anchor fields and all pipelines.	Vol. 6B, Sec. 7.3.3, p. 7-63. Vol. 7 6.3.5.2, p. 6-15. Vol. 8.	INAC 1.67E, WWF 2.03.	339 INAC 2.34 Commitments Table.	Vol. 31, p. 2787, p. 2788. Vol. 46, p. 4456, p. 4469. Vol. 47, p. 4507, p. 4537.	
8-21	Limit clearing near critical habitats and wildlife features, such as active nest sites, bear dens and mineral licks, in compliance with regulatory requirements, such as Species at Risk Act (SARA).	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2.	JRP 1.33, GNWT 1.110, GNWT 1.111, GRRB 2.05.	115		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-8: Mackenzie Gas Project Summary Commitments, Harvesting and Other Land Use – Topic 12**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
12-1	Manage site access, depending in part on the views of the communities, except where there is a health, safety or conservation concern. For example, access near facilities where there is a health or safety concern will be restricted.	Applies to anchor fields and all pipelines.		INAC 1.139S, SKDB 5.01.		Vol. 46, p. 4367, p. 4444. Vol. 59, p. 4367.	
12-2 (7-2)	Reduce the effect that increased access might have on the vulnerability of wildlife to hunting and trapping by: <ul style="list-style-type: none"> <li>creating a dogleg right-of-way at crossings of existing roads in forested areas, where practical</li> <li>coordinating with government authorities and communities to control access</li> <li>using slash berms in forested areas to control access</li> </ul>	Applies to all pipelines.	Vol. 7, Sec. 3.7.3.1.	GNWT 2.08, JRP 4.04, SKDB 5.01, EC 1.5001.	269	Vol. 46, p. 4367, p. 4370.	
12-3	Identify activities that restrict access along the right-of-way during construction and identify the duration of the restriction.	Applies to all pipelines.	Additional Information EIS, Sec. 10.	SKDB 5.01, DTFN 2.12a.		Vol. 46, p. 4387, ln. 25-32.	J U-101.
12-4 (7-3)	Roll back cleared vegetation in a pattern that does not leave a recognizable trail, where appropriate, to reduce accessibility and visibility to humans and predators.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56.		118		
12-5 (7-8)	Prohibit recreational use of project roads and rights-of-way by project staff during construction.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2.	GRRB 2.05, EC 1.5001.	123		
12-6	Notify communities when barges will be moving down the river.	Applies to anchor fields and all pipelines.		INAC 2.34, DGGDC 1.02.		Vol. 59, p. 5823.	
12-7	Plan dredging to take place: <ul style="list-style-type: none"> <li>two years before transporting the gas conditioning facility modules</li> <li>after the beluga harvest or August 15th, as set out in the beluga management plans</li> </ul>	Applies to Niglintgak.		JRP 5.05		Vol. 54, p. 5143.	
12-8	Compensate wildlife harvesters for damages and the loss of subsistence or commercial harvesting opportunities suffered as a result of project activities.	Applies to anchor fields and all pipelines.	Vol. 6, Sec. 6.1.4.	GNWT 2.9.		Vol. 24, p. 2196.	J U-184

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-8: Mackenzie Gas Project Summary Commitments, Harvesting and Other Land Use – Topic 12 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
12-8 (cont'd)			Vol. 7, Sec. 3.7.4.2, AIR Sec. 2.6.1.			Vol. 26, p. 2314, p. 2346. Vol. 46, p. 4367, p. 4372, p. 4373, p. 4401-2, p. 4404. Vol. 67, p. 6779. Vol. 59, p. 5821.	
12-9	Establish compensation terms and conditions to meet the requirements of the land claim and interim measures agreement with Gwich'in, Sahtu and Deh Cho through future consultation, including negotiating wildlife harvester compensation arrangements as part of project-related access and benefits agreements.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.4.2.	INAC 1.73E, GNWT 2.9.	273	Vol. 46, p. 4372, p. 4415, p. 4416.	J U-184.
12-10	Negotiate the specific terms and provisions of wildlife harvester compensation process with the hunters' and trappers committees or other relevant authorities in the settled land claim regions, and the affected communities in the Deh Cho Region.	Applies to all pipelines.	Vol. 6B, Sec. 6.1.4.	INAC 2.34, EC 1.5001, GNWT 2.9.		Vol. 26, p. 2311. Vol. 46, p. 4415, p. 4401-2.	
12-11	Provide economic benefits, e.g., jobs, that can be used to enhance Deh Cho Region harvesting capacity.	Applies to all pipelines.		INAC 1.141S, INAC 1.110S.			
12-12	Implement, for the construction phase, where practical, measures to offset harmful alteration and disruption or destruction of fish habitat resulting from the project footprint.  Develop and implement measures, in keeping with the DFO <i>Policy for the Management of Fish Habitat</i> , to compensate for habitat that is harmfully altered, disrupted or destroyed by the project.  Develop specific compensation measures, in consultation with the DFO and local Aboriginal communities, if applicable, as locations, designs and construction methods are finalized.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3.	DFO 1.57.	15		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-8: Mackenzie Gas Project Summary Commitments, Harvesting and Other Land Use – Topic 12 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
12-13	Address community issues, including those already identified, such as: <ul style="list-style-type: none"> <li>increased disturbance to fish habitats and pressure to sensitive fish harvesting areas because of increased access to waterbodies</li> <li>water withdrawal effects on waterbodies and fish habitat</li> <li>water disposal</li> <li>interference with community water intakes</li> <li>potential adverse effects on water quality upstream of community water intakes</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.3.2.2	GNWT 1.28, GNWT 1.30, GNWT 1.31, GNWT 2.19, EC 1.5001.	195		
12-14	Use traditional and local knowledge related to waterbodies and knowledge of economically and culturally important fish-bearing lakes during the selection process for water sources. Consult communities during the planning stages for camps.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.3.2.2.	GNWT 1.28, GNWT 2.19, EC 1.5001.	194		
12-15 (7-72)	Prepare detailed wildlife plans, before drilling and construction begins in the Inuvialuit Settlement Region. Ensure that the plans incorporate feedback obtained from: <ul style="list-style-type: none"> <li>regulatory review of the EIS</li> <li>traditional knowledge</li> <li>community consultations</li> </ul> Include specific measures in the plans to avoid or reduce impacts on wildlife and harvesting, and restore wildlife habitat.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.4.2.	GRRB 2.06, EC 1.5001.	272	Vol. 46, p. 4380, p. 4444.	
12-16 (14a-40)	Manage the interface between harvesting and the project by: <ul style="list-style-type: none"> <li>managing access and implementing mitigative measures that include the community's vision of resource use</li> <li>obtaining guidance on site-specific mitigation requirements from resource managers</li> <li>monitoring the patterns of country food use</li> </ul>	Applies to anchor fields and all pipelines.		GTC 2b.14, EC 1.5001.		Vol. 46, p. 4444.	
12-17	Remove temporary harvesting restrictions at construction sites when construction is complete.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56.	JRP 1.33, GNWT 2.08.	121, 269	Vol. 46, p. 4369.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-8: Mackenzie Gas Project Summary Commitments, Harvesting and Other Land Use – Topic 12 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
12-18	Restrict access to to permanent, above-ground operating facilities when construction is complete.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2 F42 p. 10-56. Vol. 7, Sec. 3.7.3.1.	JRP 1.33, GNWT 2.08.	121, 269	Vol. 46, p. 4369, p. 4370.	
12-19	Support community-based traditional lifestyle initiatives that promote traditional harvesting and positive relationships with communities, such as: <ul style="list-style-type: none"> <li>traditional harvesting training camps for young people</li> <li>traditional skill proficiency demonstrations or competitions</li> </ul> Support cultural activities and events that are consistent with the project proponents' principles and practices for community involvement.	Applies to anchor fields and all pipelines.	Vol. 6, Sec. 6.2.4. Vol 6B, Sec. 6.1.4.	INAC 2.34, EC 1.5001, DGGDC 2.06.		Vol. 26, p. 2350.	
12-20 (7-48)	Monitor community harvest statistics.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.6.2.	JRP 1.33, GTC 2b.14.	172		
12-21	Provide country foods at the camps, periodically.	Applies to anchor fields and all pipelines.	Vol. 6, Sec. 6.2.4.	DGGDC 2.06.			
12-22	Provide, if requested, the opportunity for Aboriginal artisans to display and sell their handicrafts in the camps.	Applies to anchor fields and all pipelines.	Vol. 6, Sec. 3.1.4.3.				
12-23	Restrict herbicide use near rare plants, vegetation communities of concern, or traditionally used plants and collecting sites.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 9.42 p. 9-133, 9-137.	EC 1.5001.	85		
12-24	Flag or fence sensitive areas for protection.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 9.3.2.1 p. 9-58.	JRP 1.36.	87		
12-25 (7-67)	Salvage timber that is cleared from the right-of-way, where required, for erosion control, watercourse embankment construction, temporary bridge structural components and wood chip production, if the timber is of acceptable quality.	Applies to all pipelines.			94	Vol. 32, p. 2944.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-8: Mackenzie Gas Project Summary Commitments, Harvesting and Other Land Use – Topic 12 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
12-26	Make available to local communities, where practical, the remaining timber cleared from the right-of-way, after all project requirements are met.	Applies to all pipelines.		DAS 1.20, NON ATT 1.169 (follow up to GNWT 2.26).		Vol. 32, p. 2944, p. 2959.	
12-27 (7-5) (14a-39)	Use slash and timber as rollback on steep slopes. Use the rollback, when available and acceptable to the applicable government agency, at strategic locations along a pipeline right-of-way for access control or for small-mammal travel corridors. Determine specific locations during construction.	Applies to all pipelines.	Vol. 7, Sec. 4.5.3.	SKDB 5.01, EC 1.5001.	299		
12-28 (7-10)	Review, with local trappers, all beaver dams that need to be removed to facilitate construction, at least one month before construction starts. Give trappers the opportunity to trap the affected beaver colonies before construction starts.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-57.	EC 1.5001.	145		
12-29	Consult territorial and federal wildlife agencies, and local hunters and trappers to determine the location of known wildlife dens.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-57.	EC 1.5001, GRRB 2.06.	142		
12-30 (7-31)	Ensure that no project workers harvest, harass, harm or feed wildlife. Prohibit all workers from hunting and fishing on any project sites.	Applies to anchor fields and all pipelines.	Vol. 7, Sec 7.2.3 & Table 4.2.	INAC 2.34, EC 1.5001, DFO 5.03, INAC 1.135S.	121		
12-31 (7-32) (8-11) (14a-69)	Maintain contact with hunters and trappers committees, renewable resource councils, hunters and trappers associations, co-management boards, the Canadian Wildlife Service and the Department of Resources, Wildlife and Economic Development to advise them of incidents involving wildlife, e.g., ungulates, bears and SARA species.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56.	JRP 1.33, EC 1.5001.	113	Vol. 86, p. 8644.	
12-32	Continue to develop plans, with input from communities, to protect wildlife and sources of traditionally used plants. Manage construction to limit the effects on fish and fish habitat.	Applies to anchor fields and all pipelines.				Vol. 26, p. 2310.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-8: Mackenzie Gas Project Summary Commitments, Harvesting and Other Land Use – Topic 12 (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
12-33	Provide flexible work schedules to accommodate traditional harvesting and other Aboriginal cultural, family and community needs, where practical, recognizing that work flexibility will be limited in the peak winter construction seasons.	Applies to anchor fields and all pipelines.	Vol. 6, Sec. 6.2.4. Vol. 6B, Sec 6.1.4, AIR Sec. 2.1.5, AIR Sec 6.6.4.2, AIR Sec. 6.8.5.2, AIR Sec 11.2.4.6.	INAC 2.34, INAC 1.135S, DGGDC 2.06, INAC 1.110S.		Vol. 24, p. 2198. Vol. 46, p. 4362, p. 4370, p. 4381.	
12-34	Provide transportation for harvesters to travel to their home base to allow them to harvest, if the work schedule permits.	Applies to anchor fields and all pipelines.				Vol. 46, p. 4374.	
12-35 (7-1) (8-1)	Develop an Access Management Control Plan for the project. Consult with all appropriate regulators and any affected communities as part of developing this plan.  Ensure that the Wildlife Plan incorporates applicable community concerns, considers health and safety, and addresses regulatory requirements that will guide the decision-making process for wildlife protection.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.2 & 10.3. Vol. 7, Sec. 3.7.1.	INAC 1.139S, DTFN 2.06 & 2.12a, GRRB 2.05 & 2.06, EC 2.15, GNWT 2.08, GTC 2b.14.	267	Vol. 59, p. 5821.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-1 (4-5)	Implement best management practices for fugitive emissions.	Applies to anchor fields and all pipelines.		EC 1.3014, EC 2.04.	8	Vol. 58, p. 5647.	
14a-2 (4-6)	Apply good site management practices for dust suppression to avoid community impacts.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 2.3.2, p. 2-25.	JRP 1.28, JRP 3.02.	9		J-IORVL-00821.
14a-3 (4-7)	Conduct passive monitoring for nitrogen dioxide (NO <sub>2</sub> ) at facilities.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 2.5.2, p. 2-108.  Vol. 7, Sec. 3.2.3, p. 3-5.		10, 190	Vol. 58, p. 5645.	J-IORVL-00821.
14a-4	Use the Emissions Management Plan to: <ul style="list-style-type: none"> <li>outline procedures for designing, purchasing and operating project equipment according to applicable regulatory requirements, land use permits and industry best practices for emissions management</li> <li>include measures for managing project-related air and noise emissions</li> <li>recognize the potential for uncontrolled releases</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.2, p. 3-2.		186		
14a-5 (4-8)	Develop an emissions management plan in consultation with Environment Canada and the GNWT.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.2, p. 3-2, Sec. 3.2.2.2, p. 3-4.		186, 188	Vol. 58, p. 5649.	J-IORVL-00775. J-IORVL-00821.
14a-6 (6-19)	Monitor visually by aerial inspection, changes in location or the extent of groundwater discharge areas.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 4.3.2, p. 4-27.	JRP 1.33, INAC 2.07, INAC 2.10, INAC 2.24.	150, 289		
14a-7 (6-19)	Monitor environmental effects of frost bulbs along the Mackenzie gathering system and Mackenzie Valley pipeline corridor.	Applies to all pipelines.	Vol. 1, Executive Summary, p. 24.	JRP 1.33, EC 1.0009, NRCAN 1.55.	151		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-8 (6-19)	Monitor, visually, the natural drainage conditions and sediment control devices to ensure that runoff is being routed to a natural receiving waterbody according to the conditions of permits, licences and other approvals from regulatory agencies.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 5.6.2, p. 5-163, Sec. 7.3.2.3, p. 7-70.	JRP 1.33, EC 1.009, NRCAN 1.55, INAC 2.07, INAC 2.10, INAC 2.24.	152		
14a-9 (6-19)	Monitor natural drainage conditions across the Mackenzie Valley pipeline and Mackenzie gathering system right-of-way.	Applies to all pipelines.	Vol. 5, Sec. 5.6.2, p. 5-163.	JRP 1.33, EC 1.0009, NRCAN 1.55, INAC 2.10.	153		
14a-10 (6-19)	Monitor stream bed conditions and bank stability at water crossings.	Applies to all pipelines.	Vol. 5, Sec. 5.6.2, p. 5-163, Sec. 7.4.2, p. 7-190.	JRP 1.33, EC 1.0009, NRCAN 1.55.	154		
14a-11 (6-19)	Monitor bank stability and sediment deposits at new barge landing sites.  Monitor the effect of the Niglintgak gas conditioning facility on the banks of the channel and install bank protection, if necessary.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 5.6.2, p. 5-163.	NRCAN 1.38, EC 1.0009, NRCAN 1.55.	155		
14a-12 (6-19)	Monitor excessive debris blockage at culverts and bridge crossings.	Applies to all pipelines.	Vol. 5, Sec. 5.6.2, p. 5-164.	NRCAN 1.55.	156		
14a-13	Monitor, visually, the effects of land subsidence from gas extraction at Niglintgak and Taglu, such as on the Kumak and Kuluarpak channels.	Applies to Taglu and Niglintgak only.	Vol. 5, Sec. 4.3.2, p. 4-27, Sec. 5.6.2, p. 5-164.		157		
14a-14 (6-19)	Monitor and record water use during construction and operations.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 5.6.2, p. 5-164.		158		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-15 (6-19)	Monitor, visually, the scour of the stream bed at watercourse crossings.	Applies to all pipelines.	Vol. 5, Sec. 5.6.2, p. 5-164.	JRP 1.33, EC1.0009, NRCAN 1.55.	159		
14a-16 (6-19)	Monitor receiving waterbodies affected by domestic wastewater releases.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 6.4.2, p. 6-70.		160		
14a-17 (6-19)	Monitor receiving waterbodies affected by hydrostatic test water releases.	Applies to all pipelines.	Vol. 5, Sec. 6.4.2, p. 6-70.		161, 192		
14a-18 (5-5)	Monitor dredging locations in near shore coastal waters and delta channels. Parameters could include: <ul style="list-style-type: none"> <li>• conventional key indicators</li> <li>• total suspended solids</li> <li>• nutrients</li> <li>• metals</li> <li>• polycyclic aromatic hydrocarbons (PAHs)</li> <li>• polychlorinated biphenols (PCBs)</li> </ul>	Applies to Niglintgak only.	Vol. 5, Sec. 6.4.2, p. 6-70.	JRP 1.33.	162		
14a-19 (6-8)	Record the volume of water withdrawn from waterbodies and ensure that volumes do not exceed the regulatory limits stated in the water use permits.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-71.	EC 1.0003, INAC 1.43WQ.	35		
14a-20 (6-9)	Release water to the watershed in a controlled manner to reduce the effects to the receiving waterbodies.  Ensure that the quality of discharge water meets the appropriate water quality discharge criteria or, if this is not possible, use alternative disposal methods.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-71.	DFO 1.36, GNWT 1.27, GNWT 1.29, GNWT 1.35, EC 1.0024, HC 1.10, DFO 1.36.	36		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-21 (6-9)	<p>Reduce effects of release of treated wastewater on receiving waterbodies by:</p> <ul style="list-style-type: none"> <li>meeting water use permit conditions for surface release</li> <li>using alternative approved disposal methods, such as deep well injection</li> <li>considering community input and traditional knowledge</li> </ul>	Applies to anchor fields.	Vol. 5, Sec. 7.3.2.3, p. 7-71.	EC 1.0039, HC 1.10.	37		
14a-22 (6-19)	<p>Monitor:</p> <ul style="list-style-type: none"> <li>water quality, for such things as: <ul style="list-style-type: none"> <li>hydrocarbons</li> <li>coliform bacteria</li> <li>turbidity</li> <li>pH</li> <li>dissolved oxygen</li> </ul> </li> <li>fish abnormalities</li> </ul> <p>Conduct the monitoring at selected lakes and watercourses within the zone of influence of anchor fields and infrastructure facilities.</p>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.4.2, p. 7-190.	JRP 1.33.	163		
14a-23 (6-19)	<p>Monitor:</p> <ul style="list-style-type: none"> <li>domestic and recreational fish harvest</li> <li>fish passage</li> <li>fish species composition and diversity</li> <li>fish use of known spawning and rearing areas</li> </ul> <p>Conduct the monitoring at:</p> <ul style="list-style-type: none"> <li>selected lakes and watercourses within the zone of influence of the project</li> <li>road crossings with culverts</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.4.2, p. 7-190.	DFO 1.13, JRP 1.33; EC 1.5002.	164		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-23 (cont'd)	<ul style="list-style-type: none"> <li>pipeline crossings with a risk of frost bulb formation, such as where spring spawning migration might be delayed or blocked</li> </ul>						
14a-24	<p>Continue to develop protection plans, with input from communities, to protect wildlife and sources of traditionally used plants.</p> <p>Manage construction to limit the effects on fish and fish habitat.</p>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.4.1.			Vol. 26, p. 2310.	
14a-25	Monitor compliance during all phases of the project, from environmental inspection monitoring during construction to monitoring required for licences issued by the land and water boards.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.1.1.	EC 1.5001.	326, 327, 328		
14a-26	Conduct compliance monitoring to ensure that all environmental mitigation is done as outlined in EIS Volume 7.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 8.5.1, p. 8-147, Sec. 9.5.1, p. 9-175. Vol. 7		111, 326, 327, 328		
14a-27	Implement management practices, contingency plans and mitigation and emergency response plans to prevent and address leaks and spills.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 4.3.2, p. 4-27, Sec. 7.3.2.3, p. 7-71.	EC 1.0036.	39, 127, 212 to 232, 234, 235 251, 252, 253, 314, 315, 316		
14a-28	Use leak detection methods to monitor stored fuel.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 7.3.2.3, p. 7-71.		40		
14a-29	Monitor the effects of thaw settlement, frost heave, pond formation and drainage, and erosion at selected sites.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 4.3.2, p. 4-27.	EC 1.0009, NRCAN 1.55, INAC 2.07.	165		
14a-30 (3a-6)	Monitor the stability of slopes at areas of concern, including slope movement areas and groundwater levels at selected slopes.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 8.5.2, p. 8-148.	NRCAN 1.55, INAC 2.07.	166		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-31	Track quantities of borrow material used from a specific location.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 8.5.2, p. 8-148.		167		
14a-32	Monitor, visually, soil erosion and plant cover at selected locations.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 8.5.2, p. 8-148.	EC 1.0009, NRCAN 1.55.	168		
14a-33	Develop and implement site-specific erosion and sediment control plans, if required.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 4.3.2, p. 4-27, Sec. 7.1.2.2, p. 7-4.	INAC 2.26.	53		
14a-34	Monitor: <ul style="list-style-type: none"> <li>• vegetation composition and cover</li> <li>• vegetation health and vigour</li> <li>• presence of weeds</li> </ul> Conduct the monitoring at: <ul style="list-style-type: none"> <li>• representative terrain types in each ecological zone</li> <li>• areas of different revegetation treatment on the right-of-way</li> <li>• infrastructure sites in areas where:               <ul style="list-style-type: none"> <li>• rare plants are directly affected by the project</li> <li>• SARA species are directly affected by the project</li> </ul> </li> </ul>	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 9.5.2, p. 9-175.	GNWT 1.116, NRCAN 1.55.	169, 337, 338		
14a-35 (7-1)	Develop an Access Management Control Plan for the project that will include consultation with all appropriate regulators and any affected communities.  Incorporate in the Wildlife Plan applicable community concerns (while considering health and safety).  Address regulatory requirements that will guide the decision-making process for wildlife protection.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.2 & 10.3.  Vol. 7, Sec. 3.7.1.	INAC 1.139S, DTFN 2.06, DTFN 2.12a GRRB 2.05, GRRB 2.06 EC 2.15, GNWT 2.08, GTC 2b.14.	84, 267	Vol. 59, p. 5821.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-36 (7-2)	Reduce the effects of increased access on wildlife and hunting and trapping by: <ul style="list-style-type: none"> <li>creating a dogleg in the right-of-way at crossings of existing roads in forested areas</li> <li>coordinating with government authorities and communities to control access</li> <li>using slash berms in forested areas for access control</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.1.	GNWT 2.08; GTC 2b.14.	269		
14a-37 (7-3) (12-4)	Roll back cleared vegetation in a pattern that does not leave a recognizable trail, where appropriate. This will reduce accessibility and visibility to humans and predators.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56.		118		
14a-38 (7-4)	Place barriers, such as large berms, rolled back slash or rock piles, across the right-of-way at key entrance points to limit public access.	Applies to all pipelines.	Vol. 5, Sec. 10.3.2.		125		
14a-39 (7-5) (12-27)	Use slash and timber as rollback on steep slopes.  Use the rollback where available, and acceptable to the applicable government agency, at strategic locations along a pipeline right-of-way for access control or for small-mammal travel corridors.  Determine specific locations for using rollback material during construction.	Applies to all pipelines.	Vol. 7, Sec. 4.5.3.	JRP 1.48.	299		
14a-40 (12-16)	Manage the interface between harvesting and the project by: <ul style="list-style-type: none"> <li>accessing management and mitigative measures that include the community's vision of resources use</li> <li>obtaining guidance from resource managers on site-specific mitigation requirements</li> <li>monitoring the patterns of country food use</li> </ul>	Applies to anchor fields and all pipelines.		GTC 2b.14, EC 1.5001.		Vol. 46, p. 4444.	
14a-41 (7-16)	Use suitable techniques to keep caribou away from areas of active pipeline construction and constricted corridors to limit encounters and the duration of potential disturbances from project activities.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.3, p. 10-56, 10-57.	GRRB 2.05; GNWT 1.115.	136	Vol. 59, p. 5785.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-42 (7-17)	Manage project activities in barren-ground caribou winter range between October and January to limit interaction with caribou, to the extent practical.  Avoid clearing and pipe installation in woodland caribou habitat in April and May to reduce potential effects on calving caribou, when possible.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-57.	JRP 1.33 GRRB 2.05.	138, 301, 302, 303, 305		
14a-43 (7-18) (8-22)	Prepare caribou protection plans before construction starts, as required for the Northwest Territories and Alberta.  Complete construction in the Boreal caribou range as early as possible in the winter, and according to the final Caribou Protection Plan approved by ASRD.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.5.	DTFN 2.12a, WWF 5.01.			
14a-44 (7-20)	Continue to provide project information to assist the GNWT's Environment and Natural Resources in regional wildlife management.	Applies to anchor fields and all pipelines.				Vol. 74, p. 7418.	
14a-45 (7-21)	Allocate funding for barren ground caribou telemetry and range condition studies.	Applies to Parsons Lake.				Vol. 74, p. 7418.	
14a-46 (7-22)	Support wildlife management initiatives by: <ul style="list-style-type: none"> <li>providing all project environmental inspectors with wildlife training</li> <li>providing workers with basic wildlife training</li> <li>ensuring that procedural guidelines related to wildlife protocols are followed</li> <li>ensuring that environmental inspectors are adequately trained in local traditional knowledge, mitigation practices and record keeping</li> <li>reviewing environmental protection measures with contractors</li> <li>providing relevant supplemental field documentation, e.g., guides, project directives and special contact information</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.6.	JRP 1.33.	179, 271, 329, 330, 334, 335		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-47 (7-24)	Develop protocols for managing potential interactions between bears and humans, including measures to deter bears from entering camps and other facilities, according to Safety in Bear Country: A Reference Manual (Resources, Wildlife and Economic Development).	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-57.	JRP INT SCC 1.09, JRP INT GRRB 2.06.	141		
14a-48 (7-27)	Enhance off-site habitat, or implement restoration and wildlife habitat enhancement programs, if required.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.5.	JRP 1.33.	134		
14a-49 (7-33)	Address community guidance and concerns related to emissions management, and apply suitable planning and mitigation measures to ensure that best management practices related to controlling emissions are followed throughout the project.  Address community issues, including those already identified, such as: <ul style="list-style-type: none"> <li>• increases in ambient air concentrations, acid deposition and greenhouse gas emissions</li> <li>• increases in continuous noise levels from the presence of project activities that disrupt community activities and lifestyle activities</li> <li>• disruption of wildlife life cycle activities</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.2.2.2.		188		
14a-50 (7-45)	Ensure that a wildlife monitor is on site during drilling to assess potential wildlife conflicts.  Hire wildlife monitors or environmental monitors from local communities during construction, when practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2., p. 10-56 Vol. 7, Table 4-12.	AIYA 1.01, EC 1.1003, INAC 1.67E, JRP 1.33, GRRB 2.05, EC 1.5002, SCC 5.03-1, SCC 5.03-2.	112, 179	Vol. 59, p. 5809, p. 5810. Vol. 67, p. 6765.	
14a-51	Monitor the geographical extent of habitat losses and its re-establishment through progressive reclamation.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.6.2, p. 10-352.		170		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-52 (7-49)	Monitor selected wildlife species' behaviour toward project activities and facilities during all phases of the project. Monitor sensory disturbance within the zone of influence, such as movement, feeding and resting.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.6.2.	JRP 1.33; GNWT 1.115.	171	Vol. 67, p. 6781. Vol. 74, p. 7386, p. 7387. Vol. 75, p. 7450.	
14a-53 (7-48) (12-20)	Monitor community wildlife harvest statistics.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.6.2.	JRP 1.33, GTC 2b.14.	172		
14a-54 (7-48)	Monitor the success of selected wildlife species at pipeline right-of-way crossings.	Applies to all pipelines.	Vol. 5, Sec. 10.6.2, p. 10-352.	JRP 1.33.	173		
14a-55 (7-50)	For species requiring special attention: <ul style="list-style-type: none"> <li>monitor the responses of selected species to activities and facilities during all phases of the project.</li> <li>consider the potential for long-term site habitat in planning for site reclamation</li> <li>develop protocols for storing and disposing of food, petroleum and other chemicals, including daily incineration of garbage</li> <li>develop protocols for managing potential interactions between bears and humans, including taking measures to deter bears from entering camps and other facilities.</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.3.5, p. 3-55.	GNWT 1.115.	270		
14a-56 (7-51) (8-31)	Incorporate into mitigation and monitoring strategies, where possible, further baseline information on species at risk and new guidelines for managing effects on wildlife and species at risk.	Applies to anchor fields and all pipelines.		NC 1.04.	135		
14a-57 (7-52)	Examine pipeline trenches for trapped animals at the start of each day and before conducting any activity, such as lowering-in or backfilling, that has the potential to harm an animal in the trench.	Applies to all pipelines.	Vol. 7, Table 2-4.				

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-58 (7-54) (8-29)	Base protection measures and management techniques for wildlife resources on site-specific conditions or the habitat to be protected.  Undertake preconstruction wildlife surveys, where required, immediately before starting right-of-way or site preparation.  Have environmental inspectors on site during construction determine the presence or absence of high-value wildlife species.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 4.3.1, Table 4-6.	DTFN 2.06, JRP 2.35, DTFN 2.12a.	300, 332, 333		
14a-59 (7-55)	Continue to develop protection plans, with input from communities, to protect wildlife and sources of traditionally used plants.	Applies to anchor fields and all pipelines.			331	Vol. 26, p. 2310.	
14a-60 (7-70)	Design waste management plans to be used all year to the reduce likelihood of attracting grizzly bears and wolverines to project sites.	Applies to anchor fields and all pipelines.				Vol. 47, p. 4620.	
14a-61 (7-71)	Implement adaptive management plans and work with communities and regulators throughout the construction and operation of the project.	Applies to anchor fields and all pipelines.		DTFN 2.11.		Vol. 67, p. 6703.	
14a-62 (7-72)	Prevent or control negative impacts to wildlife and wildlife habitat before drilling and construction begins in the Inuvialuit Settlement Region.  Prepare detailed wildlife management plans that incorporate: <ul style="list-style-type: none"> <li>• feedback obtained during the regulatory review of the EIS</li> <li>• traditional knowledge</li> <li>• wildlife-related community concerns</li> </ul>	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.1, Sec. 3.7.2.2 (Table 3-4), Sec. 3.7.3, Sec. 3.7.3.1, Sec. 3.7.3.2, Sec. 3.7.3.3, Sec. 3.7.3.4, Sec. 3.7.4.2.	GNWT 1.115.		Vol.59, p. 5782. Vol. 67, p. 6733, p. 6734.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-63 (12-15)	Prepare detailed wildlife management plans, before drilling and construction begins in the Inuvialuit Settlement Region, that will incorporate feedback from: <ul style="list-style-type: none"> <li>the regulatory review of the EIS</li> <li>traditional knowledge</li> <li>community consultations</li> </ul> Include specific measures in the plans to avoid or reduce impacts on wildlife and harvesting, and restore wildlife and its habitat as far as practical.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 3.7.4.2. p. 3-56.	GRRB 2.06. EC 1.5001.	272	Vol. 46, p. 4380, p. 4444.	
14a-64 (7-13) (8-33)	Develop wildlife management plans and species-specific protection plans.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10. Vol. 7, Sec. 3.	JRP 2.34; GNWT 1.115, SCC 5.03-2, SCC 5.04-1.		Vol. 67, p. 6733. Vol. 74, p. 7386, p. 7387, p. 7418. Vol. 75, p. 7473, p. 7474.	
14a-65	Assign wildlife monitors during construction. Hire monitors from local communities, when practical.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56.	AIYA 1.01, EC 1.1003, INAC 1.67E, JRP 1.33, GRRB 2.05.	112		
14a-66	Follow the Waste Management Plan and the Hazardous Materials Management Plan.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56.	EC 1.1003, JRP 1.33, SCC 1.09.	126, 236 to 250, 296		
14a-67 (5-16) (8-5)	Ensure that project marine activities comply with the proposed regulations for the Tarium Niryutait Marine Protected Area.  Ensure that transit and dredging, which are controlled under the proposed regulations and planned activities, comply with the current version of the Beluga Management Guidelines.	Applies to Niglintgak and Taglu.				Vol. 54, p. 5138.	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-9: Mackenzie Gas Project Summary Commitments, Environmental (Biophysical) Management Plans, Monitoring and Follow-up Programs – Topic 14a (cont'd)**

Commitment No. & Cross Ref.	Summarized Commitment Statements	Project Component	Reference Location				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or Exhibit
14a-68 (5-9) (5-13)	Fly a pre-transit reconnaissance flight with monitors to identify any aggregations of bowhead whales or belugas. This will allow adjustments of the planned transit route to avoid the animals.  Monitor marine mammals before and during transit activities.	Applies to all anchor fields.			301, 302, 303, 305	Vol. 54, p. 5145, p. 5147.	
14a-69 (8-11) (7-32) (12-31)	Maintain contact with hunters and trappers committees, renewable resource councils, hunters and trappers associations, co-management boards, the Canadian Wildlife Service and the Department of Resources, Wildlife and Economic Development to advise them of incidents involving wildlife, e.g., ungulates, bears and SARA species.  Report all animal incidents to the proponents' representative or environmental monitor, who will take necessary action.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 10.3.2, p. 10-56.	JRP 1.33.	113	Vol.59, p. 5764.	J-IORVL-00004.
14a-70 (7-54)	Base protection measures and management techniques for wildlife resources on site-specific conditions or the habitat to be protected.  Undertake preconstruction wildlife surveys, where required, immediately before starting right-of-way or site preparation.  Have environmental inspectors on site to determine the presence or absence of high-value wildlife species during construction.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 4.3.1, p. 4-12.	DTFN 2.06, JRP 2.35, DTFN 2.12a.	300, 332, 333	Vol. 31, p. 2792, p. 2793, p. 2839. Vol. 46, p. 4452.	J-IORVL-00004.
14a-71 (7-13) (8-3)	Develop wildlife management plans and species-specific protection plans.	Applies to anchor fields and all pipelines.	Vol. 5, Sec. 3  Vol. 7, Sec. 3.7.1, p. 3-47.	JRP 2.34, GNWT 1.115, SCC 5.03-2, SCC 5.04-1.	174, 267	Vol.67, p. 6733. Vol. 31, p. 2793, p. 2797. Vol.47, p. 4621.	J-IORVL-00004.

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-10: Mackenzie Gas Project Summary Commitments, Cumulative Impacts – Topic 15**

Commitment No. & Cross Ref.	Summarized Commitment Statement	Project Component	Reference				
			EIS or Supplement	IR Response	IR EC 2.06 Commitment No.	Hearing Transcript	Undertaking or JRP Exhibit
15-1	Address the cumulative effects of potential climate change on project-related effects, in the mitigative strategies used in conjunction with a monitoring system.	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 6.1.	AIYA 1.01, EC 1.5001, DGGDC 1.04, SEL 1.02, RITC 1.01, GNWT 1.23, GNWT 1.27, GNWT 1.29, GNWT 1.32, EC 1.3026, EC 1.0029, EC 1.0024, EC 2.08.	327		
15-2	Collaborate with other industry and government-sponsored groups to monitor programs occurring in the Mackenzie Delta and Mackenzie Valley during operations.  Integrate project monitoring information into the NWT Cumulative Impact Monitoring Program.  Participate in programs, such as the CEAM Framework, CIMP and the Protected Areas Strategy, through organizations such as the Canadian Association of Petroleum Producers (CAPP).	Applies to anchor fields and all pipelines.	Vol. 7, Sec. 6.3.5.2.	INAC 1.67E.	339		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9**

Commitment No.	Summarized Commitment Statement	References		
		SEA*	EIS or Supplement	IR Response
9-1	<p><i>In order to optimize employment opportunities for Aboriginal Persons and NWT Residents while providing a workplace and undertaking operations that are safe during all Project phases, MGP will:</i></p> <ul style="list-style-type: none"> <li><i>not discriminate against Aboriginal Persons or NWT Residents;</i></li> <li><i>promote the involvement of Aboriginal Persons and NWT Residents across the spectrum of skilled, unskilled, technical and professional job classifications in the Project;</i></li> <li><i>provide opportunities for advancement and succession on the basis of qualification and performance; and</i></li> <li><i>provide a workplace where all individuals are treated in a fair, equitable and respectful manner while working on the Project;</i></li> </ul> <p><i>as more particularly described in Socio-Economic Agreement Article 2.</i></p>	2.1.2	Vol. 6A, Sec. 3.1.4.3, p. 3-36	
9-2	<p>The proponents will provide Aboriginal people and other northern residents who are qualified, or who take the steps necessary to become qualified for work on the project, with the opportunity to work during construction. This applies equally to women and men, and is consistent with:</p> <ul style="list-style-type: none"> <li>relevant land claims settlement agreements</li> <li>benefits and access agreements</li> <li>provisions of applicable human rights legislation</li> <li>the Canadian Charter of Rights and Freedoms</li> <li>the INAC Northern Benefits Statement of Principles</li> </ul>		Vol. 6A, Sec. 3.1.4.2, p. 3-28, Sec. 3.1.4.2, p. 3-30, Sec. 3.1.4.3, p. 3-36, Additional Information Report, Sec. 2.1.6, p. 2-6, Additional Information Report, Sec. 6.6.4.1, p. 6-56	NWTLC 2.10 YG 2.02
9-3	<p>The proponents will require key contractors to work with the project, community resource personnel, Aboriginal organizations, Aurora College and others that might add value in recruiting and hiring qualified workers.</p>		Vol. 6A, Sec. 3.1.4.2, p. 3-34	
9-4	<p>The proponents will work with:</p> <ul style="list-style-type: none"> <li>contractors, northern businesses, communities and government agencies to identify and capture opportunities for employment</li> <li>employment officers and staff in local communities, Aboriginal organizations and government agencies to help recruit qualified Aboriginal and other northern employees</li> <li>contractors and subcontractors to structure Aboriginal and northern employment policies and plans, including reporting and monitoring systems, to comply with the proponents' benefits plans and agreements, and with commitments to use Aboriginal and other northern workers</li> </ul>		Vol. 6A, Sec. 3.1.4.2, p. 3-30	GNWT 1.89

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-4 (cont'd)	<ul style="list-style-type: none"> <li>contractors and subcontractors to design and implement hiring practices to provide opportunities for qualified Aboriginal and other northern residents, including considering equivalency to education requirements for some jobs</li> </ul>			
9-5	The proponents will ensure that project managers, contractors and unions support hiring, training and retention of Aboriginal and other northern workers.		Vol. 6A, Sec. 3.1.4.2, p. 3-32	
9-6	The proponents will provide work opportunities and experience that should enhance the competence and self-reliance of all workers.		Additional Information Report, Sec. 2.3.2, p. 2-11	
9-7	<p><i>MGP will give priority, to the extent not prohibited by applicable Regulations, to providing offers of employment in the Project to members of the following groups in the following order:</i></p> <ol style="list-style-type: none"> <li><i>beneficiaries, participants or members, as the case may be, of the Aboriginal Authority of the Region in which such employment opportunity will be located;</i></li> <li><i>beneficiaries, participants and members of the other Aboriginal Authorities;</i></li> <li><i>other Aboriginal Persons and other NWT Residents who reside in any of the Regions;</i></li> <li><i>other Aboriginal Persons who reside outside the Regions; and</i></li> <li><i>other individuals.</i></li> </ol>	2.2.1	Vol.6A, Sec. 3.1.4.3, p. 3-37 Additional Information Report, Sec. 6.6.4.1, p. 6-56	FSV 2.18, YG 2.02, MGP Gender Analysis, Sec 3.2.3, p. 3-9
9-8	The proponents will ensure that the preference to employ qualified Aboriginal and other northern residents during all phases of the project applies to Yukon residents who are qualified and meet the definition of northern resident.			YG 2.02
9-9	The proponents will contribute to Aboriginal and other northern capacity development by enhancing opportunities to participate in natural gas field and pipeline operations employment opportunities as qualified and skilled workers.		Vol. 6A, Sec. 3.1.4.2, p. 3-35	GWNT 1.95
9-10	<i>During all Project phases, MGP will make offers of employment for available Project Worker positions, as determined by MGP, to applicants according to the hiring priorities set out in Socio-Economic Agreement Section 2.2.1 across the spectrum of skilled, unskilled, technical and professional job classifications.</i>	2.2.2		
9-11	The proponents will ensure that contractors, subcontractors and labour organizations provide qualified northerners with access to union jobs.		Additional Information Report, Sec. 6.6.4.1, p. 6-56	
9-12	<i>MGP will provide return transportation, at its cost, to Project Workers between their designated points of hire and Project Work locations.</i>	2.3.1	Vol. 6A, Sec. 3.1.4.3, p. 3-38	GNWT 1.97

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-13	<p><i>Throughout Construction, MGP will:</i></p> <ul style="list-style-type: none"> <li>a. <i>pay for the cost of transportation for all NWT Resident Project Workers to travel to and from their respective home communities to a designated point of hire for each work rotation;</i></li> <li>b. <i>implement appropriate policies and procedures to discourage Project Workers in transit between camps and their home communities, whether in the Northwest Territories or elsewhere, from entering other Northwest Territories communities; and</i></li> <li>c. <i>implement appropriate policies and procedures to discourage non-NWT Residents from migrating to the Northwest Territories to seek Project employment.</i></li> </ul>	2.3.2	Additional Information Report, Sec. 6.6.4.2	
9-14	During construction, the proponents will provide information regarding housing availability and rental costs in communities to which Northwest Territories residents might be attracted.		Vol. 6A, Sec. 3.3.4, p. 3-120	
9-15	<p>During construction and operations, the proponents will:</p> <ul style="list-style-type: none"> <li>• provide transportation to and from the point of hire to the work site for each work rotation</li> <li>• provide accommodation at work sites</li> <li>• discourage commuting to and from a work site during a work rotation. Regular commuting will only be considered under special circumstances.</li> </ul>		Vol. 6A, Sec. 3.3.4, p. 3-119	FSV 2.18
9-16	<i>It is the long-term goal of each Operator to locate in the Northwest Territories during Operations its permanent, full time employees who are directly involved in the operation of the Facilities. Each Operator, in its sole discretion, will determine which Operations positions are best suited to be located in the Northwest Territories.</i>	2.3.3		
9-17	<i>Throughout Operations, MGP will pay for the cost of transportation for all NWT Resident Project Workers who are employed in rotational Project Work positions to travel to and from their respective home communities to the applicable Project Work location for each work rotation.</i>	2.3.4		
9-18	<i>The Operators will offer incentives to their Project employees for Operations who, at the request of their employer, agree to relocate to or within the Northwest Territories and to their Project employees for Operations who live in the Northwest Territories, including relocation packages and northern benefits packages, as applicable. Such benefits will be established, managed and administered by each employer for its own employees.</i>	2.3.5		
9-19	<i>MGP will require prospective Project Workers to obtain appropriate education, training, skills and experience to fulfill the services, duties and obligations of a particular employment position as a pre-condition of employment or promotion. Whether or not prospective Project Workers have the requisite education, training, skills and experience for a particular position will be determined by their prospective employers.</i>	2.4.1		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-20	<i>MGP may, where it deems appropriate, consider equivalency to education or training requirements for Project employment in order to encourage recruitment and employment of Aboriginal Persons and NWT Residents.</i>	2.4.2	Vol. 6A, Sec. 3.1.4.3, p. 3-37	GNWT 1.89
9-21	<i>MGP will implement reasonable standards, policies and procedures for the Project that are generally consistent with the standards, policies and procedures implemented in its other Canadian operations to determine the qualification of prospective Project Workers, including, where appropriate, criminal record checks, the agreement of prospective Project Workers to comply with safety and security provisions, and reasonable and lawful alcohol and drug testing. MGP shall ensure that applicable standards, policies and procedures are communicated to prospective Project Workers. In addition, prospective Project Workers will be required to accept the terms and conditions of employment and the codes of conduct that are substantially similar to those applicable to employees of their respective employers in similar circumstances.</i>	2.4.3		
9-22	<i>Project Workers who are Aboriginal Persons or NWT Residents or both will be provided with benefits packages that are generally consistent with the benefits packages ordinarily provided by their respective employers to their other employees employed in comparable positions, including, in the case of employees of the Operators, employee assistance programs.</i>	2.4.4		
9-23	<i>MGP will, to the extent commercially reasonable, provide flexible work schedules to accommodate traditional harvesting, cultural, family and community needs in balance with the requirements of the Project, recognizing that flexibility will be limited during winter construction seasons.</i>	2.4.5	Vol. 6B, Sec. 6.1.4, Sec. 6.2.4, p. 6-31 Additional Information Report, Sec. 6.8.5.2, p. 6-70, Sec. 11.2.4.6 p. 11-44, Sec. 2.3.2, p. 2-11, Sec. 2.6.2, p. 2-19	INAC 1.110, MGP Gender Analysis, Sec. 3.2.3, p. 3-9
9-24	The proponents will discuss issues of scheduling and work rotation with harvesters before hiring them. In efforts to understand, accommodate and anticipate the needs of harvesters, Work rotations and schedules might be modified to reduce harvesting interference, and to prevent large numbers of workers from leaving at the same time.  If the proponents are able to grant leave to workers wishing to engage in harvesting activities, transportation will be provided according to other applicable commitments concerning transportation to the point of hire and home communities.		Vol. 6A, Sec. 3.1.4.3, Additional Information Report, Sec. 2.1.5, p. 2-6	NWTLC 2.10

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-25	<i>MGP will provide employment opportunities in Project Work for disadvantaged individuals, including individuals with disabilities, by:</i> <i>a. providing equal employment opportunity to individuals who are qualified to perform job requirements;</i> <i>b. supporting educational programs and using recruiting practices that facilitate employment and career development of all Project Workers, including disadvantaged individuals; and</i> <i>c. making reasonable accommodations to enable qualified individuals with disabilities to perform the essential functions of a job.</i>	2.4.6	Vol. 6A, Sec. 3.1.4.2, p. 3-30	MGP Gender Analysis, Sec. 3.2.3, p. 3-9
9-26	<i>MGP will administer personnel policies, programs and practices, and its commitments under this Agreement, in accordance with all applicable Regulations in all aspects of human resources development, including recruitment, hiring, work assignment, promotion, transfer, wage and salary administration, selection for training, and termination.</i>	2.4.7		
9-27	<i>MGP will provide Project worksites where all individuals are treated in a fair, equitable and respectful manner, free from sexual, racial or other harassment.</i>	2.4.8		
9-28	The proponents will: <ul style="list-style-type: none"> <li>enforce a policy of zero tolerance for the harassment of both men and women in the workplace</li> <li>ensure that women are treated fairly, equitably and respectfully</li> </ul>		Vol. 6A, Sec. 3.1.4.3, p. 3-36, Vol. 6B, Sec. 5.5.4, p. 5-97, Sec. 5.2.4, pg. 5-97	NWTLC 2.10
9-29	The proponents will provide training in all relevant procedures and policies, including the harassment policy, to workers and contractors, and will provide a gender sensitivity component to this training. This training will include rules specific to the work and camp sites, as well as recommendations for how men and women can work together to minimize unnecessary conflict and ensure a safe and respectful atmosphere at the work and camp sites.			NWTLC 2.10
9-30	The proponents will ensure that work environments promote mutual understanding and respectful relationships between Aboriginal and southern workers.		Vol. 6B, Sec. 5.5.4, p. 5-97, Additional Information Report, Sec. 2.1.5, p. 2-5, Sec. 2.3.2, p. 2-11	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-31	<p><i>The MGP Parties will support and encourage the participation of women on an equal basis with men in all aspects of training and employment related to the Project, and will promote diversity in Project employment, by:</i></p> <ul style="list-style-type: none"> <li><i>a. providing gender training to all Project Workers;</i></li> <li><i>b. ensuring that all supervisors at Project worksites and all those responsible for hiring Project Workers actively manage gender and diversity matters;</i></li> <li><i>c. implementing security and policies at all Project worksites which will include particular attention to the safety and protection of women;</i></li> <li><i>d. promoting women's job market understanding, including by communicating employment opportunities with messages that target women while undertaking the activities set out in Section 2.5; and</i></li> <li><i>e. seeking skilled female role models for Project staffing.</i></li> </ul>	2.4.9	Vol. 6B, Sec. 5.2.4, p. 5-15	NWTLC 2.10 MGP Gender Analysis, Sec. 3.3.3, p. 3-26 Sec. 3.2.3, p. 3-9
9-32	The proponents will place emphasis on recruiting and training women for nontraditional jobs.		Vol. 6B, Sec. 5.6.5, p. 1-27	
9-33	The proponents will ensure compliance with camp policies. Noncompliance will result in disciplinary action, up to and including dismissal.		Vol. 6B, Sec. 5.2.4, p. 5-24, Sec. 5.5.4, p. 5-97	
9-34	<p>The proponents will establish, in each of the camps, camp committees or joint Health and Safety committees that workers will be able to approach anonymously.</p> <p>The proponents will:</p> <ul style="list-style-type: none"> <li>• outline procedures during training to inform female and male employees how to react to situations where they feel their safety is compromised</li> <li>• invite workers to bring their issues and concerns to the attention of designated supervisors or to the camp or joint Health and Safety committees</li> <li>• staff large construction camps with security personnel at all times</li> <li>• make security personnel available to provide assistance to women when they feel their safety is compromised</li> </ul>			NWTLC 2.10
9-35	The proponents will ensure that women's sleeping quarters and bathing facilities are separate from men's.			NWTLC 2.10

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-36	The proponents will: <ul style="list-style-type: none"> <li>• structure the work camps and schedules to meet the need for fairness, equity and respect for all employees</li> <li>• invite women to identify, in confidence to a designated supervisor or camp committee, any needs they have that are different from those of men, so that appropriate action and resolution can take place</li> <li>• take appropriate action if it is determined that camps and schedules need to be restructured to be fair, equitable and respectful towards women</li> </ul>			NWTLC 2.10
9-37	<i>MGP will house Construction Project Workers in self-contained camps.</i>	3.3.3		
9-38	<i>MGP will recruit for and offer training and employment opportunities, including opportunities that may provide sustainable employment or skills that may be transferable into other industrial sectors, using the strategies outlined in the Socio-Economic Agreement, Section 2.5 and in accordance with the provisions of this Agreement.</i>	2.5.1		
9-39	The proponents will provide summer employment opportunities during construction and operations for a limited number of students.			GNWT 1.91
9-40	The proponents will: <ul style="list-style-type: none"> <li>• require summer and job-shadowing students to complete an intensive safety orientation</li> <li>• closely supervise summer and job-shadowing students to ensure compliance with safety and operating standards</li> </ul>			GNWT 1.91
9-41	The proponents will: <ul style="list-style-type: none"> <li>• ensure that unions provide site-specific safety programs for inexperienced workers, including summer students</li> <li>• include close supervision and detailed work-site orientations in programs</li> </ul>			GNWT 1.91
9-42	<i>For Construction-related opportunities for Project Workers, the MGP Parties will:</i> <ol style="list-style-type: none"> <li><i>visit every Primary Community, on more than one occasion, to describe opportunities available for Project Workers, and the terms and conditions of employment;</i></li> <li><i>recruit in each of the Primary Communities and, as they deem appropriate, at Aurora College campuses;</i></li> </ol>	2.5.2	Vol. 6A, Sec. 3.1.4.2, p. 3-32 Sec. 3.1.4.2, p. 3-31, Sec. 3.3.4, p. 3-119, Sec. 3.1.4.3, p. 3-37, Sec. 3.1.4.2, p. 3-35	GNWT 1.91, YG 2.02, MGP Gender Analysis, Sec. 3.1.3, p. 3-4 GNWT 1.95, NWTLC 2.10, GNWT 1.88

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-42 (cont'd)	<p>c. <i>maintain Northwest Territories-based offices for activities related to the Project at which NWT Residents will be able to obtain information on, and assistance in responding to, Project Worker opportunities; and</i></p> <p>d. <i>select designated points of hire in consultation with Contractors, with the intent that only NWT Residents will be recruited at points of hire in the Northwest Territories in order to reduce Project-related migration into the Northwest Territories.</i></p>			
9-43	The proponents will identify and communicate project employment opportunities early. For example, the project proponents are participating in the Aboriginal Skills and Employment Partnership and Pipeline Operations Training Committee programs.		Vol. 6A, Sec. 3.1.4.2, p. 3-28	
9-44	The proponents will identify where hiring will take place outside of the Northwest Territories, when project planning has sufficiently advanced.		Vol. 6A, Sec. 3.3.4 p. 3-119	YG 2.02
9-45	The proponents will only hire southern workers, including women, in southern locations. The proponents will ensure that human resources and sustainable development offices publicize this hiring restriction.			GNWT 1.97, MGP Gender Analysis, Sec 3.1.3, p. 3-4
9-46	<p>The proponents will:</p> <ul style="list-style-type: none"> <li>describe employment procedures for northern residents in English and on Aboriginal language news programs</li> <li>advertise in advance the dates when project representatives are scheduled to visit the individual communities</li> </ul>		Vol. 6A, Sec. 3.3.4, p. 3-120.	
9-47	<p>Throughout Construction and Operations, MGP will:</p> <p>a. <i>communicate</i> available Project Worker opportunities and skill requirements, as determined by MGP, to interested organizations, Government agencies and all Northwest Territories communities in an open, transparent and timely fashion, using a variety of methods, such as local and regional print, radio and television media, and internet-based electronic tools (such as the "Jobs North" website), in cooperation with Aboriginal and other community organizations and institutions; and</p> <p>b. ensure that <i>details</i> of employment opportunities in Project Work, such as work hours, schedules, transportation and workplace policies and rules, are articulated in a timely manner as the Project scope is refined and execution plans are developed.</p>	2.5.3	Vol. 6A, Sec. 3.1.4.3, p. 3-37, Sec. 3.1.4.2, p. 3-35, Sec. 3.1.4.2, p. 3-30, Additional Information Report, Sec. 6.6.4.2, p. 6-56	GNWT 1.90, NWTLC 2.10 GNWT 1.88

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-48	<i>The MGP Parties have developed and implemented, and will maintain and operate during Construction, a Northwest Territories community focused human resources employment and training database to identify training priorities, based on Project requirements and registrants' personal interests, for potential Project Workers to facilitate plans for training and employment of qualified Project Workers for Construction-related opportunities. The database records personal information volunteered by NWT Residents seeking employment in the Project, including their contact information, qualifications, work experience and job preferences and will be used by MGP. Information from the database will be shared with regional training agents, training providers and Aboriginal Futures to identify registrants' skill and training requirements, and with Contractors to identify registrants who are qualified or could become qualified for employment positions in connection with the Project. In addition, consolidated information from the database may be provided to Governmental entities (including Education, Culture and Employment) for the purposes of training and recruitment in connection with the Project.</i>	2.5.4	Vol. 6A, Sec. 3.1.4.3, p. 3-37, Sec. 3.1.4.2, p. 3-32, Additional Information Report, Sec. 6.6.2, p. 6-54	INAC 1.98S, GNWT 1.88, GNWT 1.89, GNWT 1.92, FSV 2.18, INAC 1.98S
9-49	The proponents will ensure that interviews for the employment and training database are conducted by, or under the direction of, the project staff, using a standard interview questionnaire developed for the project.		Vol. 6A, Sec. 3.1.4.2, p. 3-32, Additional Information Report, Sec. 6.6.2, p. 6-54	GNWT 1.88, GNWT 1.89, GNWT 1.92, FSV 2.18
9-50	Proponent or community representatives will interview interested individuals and document their qualifications, interests, contact information and their willingness to take educational upgrading or training. The proponents will retain this information in a project community-specific database.		Vol. 6A, Sec. 3.3.4, p. 3-119	MGP Gender Analysis, Sec. 3.2.3, p. 3-4
9-51	The proponents will use the databases to review and identify skill requirements, specific training needs and steps required to implement community-based and regional training programs. If skill requirements and training needs specific to women are identified, the proponents will encourage institutions, through the Pipeline Operations Training Committee and Aboriginal Skills and Employment Partnerships initiatives, to incorporate appropriate measures in the community-based or regional training program.		Vol. 6A, Sec. 3.1.4.2, p. 3-32	MGP Gender Analysis, Sec. 3.2.3, p. 3-9
9-52	With the individual's authorization, the proponents will provide collected information to contractors on bid lists for preconstruction and construction work packages, along with the message of the project's commitment to optimize training and employment opportunities for qualified Aboriginal and other northerners, and the need for a local-content plan.		Vol. 6A, Sec. 3.1.4.2, p. 3-32, Sec. 3.3.4, p. 3-119	GNWT 1.92, GNWT 1.88, GNWT 1.89, INAC 1.98S

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-53	<i>The MGP Parties have taken a lead role, and intend to continue to participate, in POTC for the education and training of Aboriginal Persons and NWT Residents for trades and technical positions that may become available during Operations. The MGP Parties will assist in providing mentoring and student liaison when POTC program training is away from the home community to offer support with personal issues, chaperoning and removing barriers to attendance and completion of training. In addition, the MGP Parties will make employment opportunities available to graduates of the POTC technical program.</i>	2.5.5	Vol. 6A, Sec. 3.1.4.2, p. 3-29, Sec. 3.1.4.2, p. 3-32	NWTLC 2.10
9-54	<i>Subject to the availability of qualified individuals who meet the requirements of the Apprenticeship, Trade and Occupations Certification Act (NWT), the MGP Parties will, for the Project:</i>  <i>a. participate as appropriate in the provision by the POTC members of a combined minimum of thirteen (13) apprentice positions in advance of Operations;</i>  <i>b. organize and implement their training and apprenticeship programs so that employees completing the training will be able to use the skills acquired and time spent as credit towards certification or status recognized in the Northwest Territories under the Apprenticeship, Trade and Occupations Certification Act (NWT); and</i>  <i>c. record the details of employment and training in accord with the requirements of the Apprenticeship, Trade and Occupations Certification Act (NWT).</i>	2.5.6	Vol. 6A, Sec. 3.1.4.2, p. 3-35, Sec. 3.1.4.2, p. 3-32	
9-55	As part of the Pipeline Operations Training Committee program, the proponents will support opportunities for qualified mature students to take pre-technical training or to enter directly into the Northern Alberta Institute of Technology (NAIT) or the Southern Alberta Institute of Technology (SAIT).		Vol. 6A, Sec. 3.1.4.2, p. 3-35	
9-56	The proponents will ensure that operations training, whether provided through the Pipeline Operations Training Committee programs or other sources, complies with inter-provincial trade standards (Red Seal) and codes and standards applicable to the respective trades.			GNWT 1.93
9-57	The proponents will support existing Aboriginal student services support programs at NAIT and SAIT.		Vol. 6A, Sec. 3.1.4.2, p. 3-35	
9-58	The proponents will communicate information about training program graduates to potential contractors.		Vol. 6A, Sec. 3.1.4.2, p. 3-32, Additional Information Report, Sec.6.6.2, p. 6-54	FSV 2.18, NWTLC 2.10

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-59	<i>The Operators will participate in and provide financial support to Aboriginal Futures, as set out in the Contribution Agreement made the 30<sup>th</sup> day of November, 2004 between IORVL, ConocoPhillips, Shell Canada Limited and Aboriginal Futures.</i>	2.5.7		
9-60	The proponents will ensure that Aboriginal Skills and Employment Partnerships-funded programs are coordinated by the respective Aboriginal Human Resources Development Agencies (AHRDAs) and include basic workplace skills, as well as specific job-related skill training initiatives.			GNWT 1.88
9-61	The proponents will influence training programs, such as work-site safety, equipment operation and small engine repair, being delivered by the AHRDA and Pipeline Operations Training Committee, through involvement in, and a financial contribution of \$1.29 million to Aboriginal Futures.			GNWT 1.92
9-62	The proponents will coordinate construction worker training with project labour, contracting and procurement strategies.		Vol. 6A, Sec. 3.1.4.2, p. 3-32	
9-63	<p><i>The Parties recognize the importance of training NWT Residents for oil and gas industry employment, in particular with regard to the long-term sustainability of the industry in the Northwest Territories and of the Mackenzie Gas Project. The Parties commit to this objective with the creation of a training fund, as follows:</i></p> <p><i>a. The training fund will be targeted toward oil and gas training programs.</i></p> <p><i>b. The training fund will be jointly funded by the Operators and GNWT as follows:</i></p> <p><i>(i) the Operators will contribute an aggregate of \$500,000 per year for ten (10) years and GNWT will contribute \$500,000 per year for ten (10) years, such contributions commencing within 90 days following a Decision to Construct the Mackenzie Valley Pipeline; and</i></p> <p><i>(ii) after such ten (10) years, the Operators shall contribute an aggregate of \$250,000 per year and GNWT shall contribute \$250,000 per year until the commencement of Decommissioning of the last Anchor Field to be Decommissioned.</i></p> <p><i>c. The training fund will be jointly administered by the Operators and GNWT.</i></p> <p><i>d. The Parties will establish specific ongoing arrangements for the administration of the training fund on a timely basis.</i></p>	2.5.8		
9-64	<i>The MGP Parties will use reasonable commercial efforts, through completion of Construction, to involve unions and non-union labour providers, Contractors and industry associations that may participate in the Project in the provision of early apprenticeship or pre-apprenticeship training opportunities, and collaborate to ensure systems are developed to record and provide credit for Northwest Territories qualifying work hours for apprentices.</i>	2.5.9		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-65	<i>Project Workers who are Aboriginal Persons or NWT Residents will be provided such opportunities for training and advancement based on qualifications and performance as are ordinarily provided by their respective employers in similar circumstances.</i>	2.5.10		
9-66	<i>MGP will provide on-the-job supports to Project Workers, which may include measures such as:</i> <i>a. access to workplace essential skills upgrading;</i> <i>b. a workplace mentor program;</i> <i>c. an Aboriginal Project Worker liaison program;</i> <i>d. cultural awareness and gender awareness training;</i> <i>e. pre-assignment safety training; and</i> <i>f. access to life skills guidance, such as money management and alcohol and substance abuse prevention.</i>	2.5.11	Vol. 6A, Sec. 3.1.4.3, p. 3-37, Sec. 5.5.4, p. 5-97, Sec. 3.1.4.2, p. 3-32, Sec. 5.2.4, p. 5-15, Sec. 5.5.4, p. 5-97, Sec. 3.1.4.2, p. 3-35 Sec. 3.1.4.2, p. 3-30, Vol. 6B, Sec. 6.2.4, p. 6-31, Sec. 5.5.4, p. 5-97, Additional Information Report, Sec. 2.1.5, p. 2-5, Sec. 2.1.5, p. 2-6; Sec. 2.3.2, p. 2-11, Sec. 6.8.4.2, p. 6-66	GNWT 1.99, GNWT 1.14, NWTLC 2.10 NWTLC 1.02 GNWT 1.14
9-67	<i>The MGP Parties will make available in Project camps information on existing Government assistance programs. Participation by Project Workers in these programs will be voluntary.</i>	3.6.1		
9-68	<i>The MGP Parties may collaborate with or otherwise support, by various means and from time to time, GNWT and the Primary Communities to set up community-based programs for:</i> <ul style="list-style-type: none"> <li><i>• personal finance and money management training, focusing on informed consumption, savings and investment choices for increased incomes;</i></li> <li><i>• controlling alcohol and drug abuse; and</i></li> <li><i>• consistent with Sections 3.3.1 and 3.3.2, promoting cultural preservation and sustainability.</i></li> </ul>	3.6.2		
9-69	The proponents will help develop and implement support systems and resources for workers, to help them adapt to the requirements and conditions of wage employment. They will extend the offer to project workers to voluntarily participate in life skills training sessions.		Vol. 6A, Sec. 3.1.4.2, p. 3-32	GNWT 1.99, GNWT 1.14

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-70	The proponents will take a leadership role, where appropriate, in coordinating the participation of Aboriginal, government and educational institutions with business and industry organizations, to support work site and life skills training and programs for workers.		Vol. 6A, Sec. 3.1.4.3, p. 3-37, Sec. 3.1.4.2, p. 3-29	GNWT 1.88, GNWT 1.14
9-71	The proponents will provide access to programs in personal finance and money management, focusing on informed consumption, savings and investment choices for increased incomes, consistent with programs offered in the communities by the territorial government.		Vol. 6A Sec. 3.1.4.3, p. 3-37, Additional Information Report, Sec. 2.1.5, p. 2-5	
9-72	<i>The MGP Parties will collaborate with GNWT, Aboriginal Authorities, the Primary Communities, Contractors, unions and other labour organizations, educational institutions (including Aurora College), stakeholders and other relevant organizations:</i> <i>a. in the development of pre-employment preparation, skill development training, on-the-job training, and re-training programs to better enable NWT Residents to take advantage of employment opportunities arising from the Project;</i> <i>b. to clarify industry-specific education needs and, if required, to assist in development of appropriate curricula;</i> <i>c. to encourage and promote completion by students of secondary and post-secondary education through "stay in school" messages delivered at career fairs, community meetings and while undertaking the activities set out in Socio-Economic Agreement, Section 2.5; and</i> <i>d. to encourage and promote programs with Aurora College to establish work experience and job placement programs, including summer employment and co-op programs, that enable Northwest Territories students to gain experience during Construction and Operations while continuing their post-secondary education.</i>	2.6.1	Vol. 6A Sec. 3.1.4.2, p. 3-32, Sec. 3.1.4.2, p. 3-30, Sec. 5.6.5, Sec. 5.6.5 Sec. 3.1.4.2, Additional Information Report, Sec. 2.3.2, p. 2-11, Sec. 2.1.5, p. 2-5	GNWT 1.90, GNWT 1.95, NWTLC 2.10
9-73	The proponents will request that GNWT agencies (Transportation, and Municipal and Community Affairs) and private contractors cooperate with and provide hands-on experience for trainees.		Vol. 6B, Sec. 5.6.5, p. 1-27	
9-74	The proponents will participate with the GNWT, Aboriginal organizations, Aurora College and other industry operators in the recruitment and selection process for training opportunities.		Vol. 6A, Sec. 3.1.4.2, p. 3-35, Vol. 6B, Sec. 5.6.5	GNWT 1.95, NWTLC 2.10
9-75	The proponents will take a leadership role in coordinating the participation of contractors, labour organizations, and oil and gas companies in the affected regions, to provide early and ongoing training opportunities, particularly for jobs and skills that will be sustainable after construction. The proponents will ensure that project managers, contractors and unions support hiring, training and retaining Aboriginal and other northern workers, including women.		Vol. 6A, Sec. 3.1.4.2, p. 3-32	GNWT 1.95, NWTLC 2.10 MGP Gender Analysis Sec. 3.2.3, p. 3-10

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-76	The proponents will require key contractors to provide priority access to their training and employment opportunities for Aboriginal and northern workers that might: <ul style="list-style-type: none"> <li>• provide a high degree of sustainability after construction</li> <li>• be transferable into other industrial sectors</li> <li>• offer opportunity for advancement</li> </ul>		Vol. 6A, Sec. 3.1.4.2, p. 3-31	
9-77	The proponents will prioritize the range of training offered, giving special consideration to skills that are transferable and portable beyond the project.		Vol. 6A, Sec. 3.1.4.2, p. 3-33	
9-78	The proponents will maintain responsibility for education and training for project employment opportunities. Specifically, the proponents will coordinate, liaise with northern communities, Aurora College, territorial and federal government agencies, contractors, and unions regarding training and employment.		Vol. 6A, Sec. 3.1.4.2, p. 3-32	
9-79	The proponents will participate in training opportunities, and work with respective agencies to develop measurements and reporting processes.			GNWT 1.90
9-80	The proponents will ensure that contractors and subcontractors comply with inter-provincial trade standards, and with the requirements of applicable codes and standards with respect to trades skills and competency qualifications.			GNWT 1.93
9-81	<i>The Operators will, through their participation in POTC, Aboriginal Futures and other similar committees, support and collaborate with education institutions and training providers to:</i> <ol style="list-style-type: none"> <li><i>develop, implement and maintain training programs specifically geared toward the long-term employment of women in non-traditional occupations;</i></li> <li><i>develop, implement and maintain programs aimed at upgrading literacy and math skills and basic trades preparation;</i></li> <li><i>develop, implement and maintain training and work experience programs in basic labourer skills, construction trades, heavy equipment operation and truck driving, using local capital projects as training venues wherever possible; and</i></li> <li><i>conduct training programs in the summer season.</i></li> </ol>	2.6.2		
9-82	The proponents will take a leadership role in coordinating the participation of northern community organizations, including women's groups, with applicable contractors, labour groups and training agencies, to effectively use government training support programs to assist with the timely development, communication and delivery of applicable training programs.			GNWT 1.90, MGP Gender Analysis Sec. 3.2.3, p. 3-10

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-83	The proponents will participate in ensuring, where feasible, that qualified disadvantaged individuals or groups, including women, have full and fair access to training and employment opportunities, without the proponents incurring unreasonable hardship.		Vol. 6 A, Sec. 3.1.4.2, p. 3-30	MGP Gender Analysis Sec. 3.2.3, p. 3-9
9-84	The proponents will request that Aurora College provide adult educators in the communities, for literacy and math upgrading and basic trades preparation training, in conjunction with practical training.		Vol. 6A, Sec. 3.1.4.2, p. 3-34	
9-85	The proponents will request that Aurora College deliver many of the training courses to one or more sites.		Vol. 6A, Sec. 3.1.4.2, p. 3-32	GNWT 1.92
9-86	The proponents will use public and private training resources, including Aurora College, Enform and training contractors, where appropriate.		Vol. 6A, Sec. 3.1.4.2, p. 3-35	GNWT 1.95
9-87	The proponents will communicate employment and career opportunities and educational requirements by coordinating support from the project and available government funding for education and training of potential construction and operations workers, including women, through the processes of the Pipeline Operations Training Committee and Aboriginal Skills and Employment Partnerships initiatives.		Vol. 6A, Sec. 3.1.4.2, p. 3-31, Additional Information Report, Sec. 2.3.2, p. 2-11	MGP Gender Analysis, Sec. 3.2.3, p. 3-10
9-88	The proponents will work with the Pipeline Operations Training Committee and Aboriginal Skills and Employment Partnerships initiatives to coordinate the education and training resources, to develop qualified workers in time for work during construction and operations.		Vol. 6A, Sec. 3.1.4.2, p. 3-33	
9-89	The proponents will work with Aurora College and community adult educators to consider scheduling the classroom sessions for apprenticeship training during the summer.		Vol. 6A, Sec. 3.1.4.2, p. 3-34 Vol. 6B, Sec. 5.6.5	NWTLC 2.10
9-90	The proponents will work with Aurora College, municipalities and the GNWT to identify and use civil projects that might provide work experience opportunities for potential construction workers, such as equipment operators, site supervisors and safety advisors, where practical.		Vol. 6A, Sec. 3.1.4.2, p. 3-33	
9-91	The proponents will work with the existing Aurora College program and offer trainee positions on current project field programs to provide additional opportunities for training in such areas as basic labourer's skills, construction trades, heavy equipment operation and truck driving.		Vol. 6A, Sec. 3.1.4.2, p. 3-32	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-92	<p>The proponents will request that Human Resource and Skills Development Canada, Aboriginal Human Resource Development Strategy Delivery Agents, and training providers, work with the project proponents to develop training in basic labourer skills, construction trades, heavy equipment operation and truck driving, using local capital projects as training venues wherever possible.</p> <p>The proponents will request that education and training providers develop training programs specifically geared toward the long-term employment of women in these non-traditional occupations.</p>		Vol. 6B, Sec. 5.6.5, p. 5-127	
9-93	<p>The proponents will ensure that procurement policies comply with:</p> <ul style="list-style-type: none"> <li>• relevant land claim settlements</li> <li>• benefit and access agreements</li> <li>• the GNWT Socio-Economic Agreement</li> <li>• the Indian &amp; Northern Affairs Northern Benefits Statement of Principles</li> </ul>		Vol. 6A, Sec. 3.1.4.1, p. 3-27	
9-94	<p><i>MGP will award Project Work on a Best Total Value basis, and will use the following criteria to assess whether a proposal provides the "Best Total Value":</i></p> <ul style="list-style-type: none"> <li><i>a. safety and environmental management systems and performance;</i></li> <li><i>b. quality, including technical and operational capabilities;</i></li> <li><i>c. cost competitiveness, based upon the Region or Regions in which such Project Work will occur;</i></li> <li><i>d. ability to supply and deliver Project Work to be provided within MGP's scheduling requirements;</i></li> <li><i>e. the Content Plan for the Region or Regions in which such Project Work will occur; and</i></li> <li><i>f. other northern and Canadian content.</i></li> </ul>	4.2.1		
9-95	<p><i>MGP will give preference to qualified NWT Businesses and Listed Businesses in contracting for Project Work, and will foster the development of NWT Businesses in ways that provide long term benefits to the Project and NWT Businesses, as more specifically set out in this Article 4.</i></p>	4.2.2	Vol. 6A, Sec. 4.1.4.1, p. 3-27	
9-96	<p><i>Whether or not a particular proposal provides the Best Total Value based upon the above criteria will be determined by MGP, acting reasonably, in accordance with the terms of this Agreement.</i></p>	4.2.3		
9-97	<p><i>The Operators shall use reasonable commercial efforts to:</i></p> <ul style="list-style-type: none"> <li><i>a. procure at least 15% of their materials, supplies, equipment and services from NWT Businesses during Construction; and</i></li> <li><i>b. maximize procurement from NWT Businesses during Operations and Decommissioning.</i></li> </ul>	4.2.4		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-98	<i>MGP will provide the first opportunity to submit proposals on certain types of Project Work to Listed Businesses within the Region in which the Project Work is required, and will award the work to such qualified Listed Businesses, complying with applicable Regulations, where Best Total Value is achieved.</i>	4.3.1	Vol. 6 A, Sec. 3.1.4.1, p. 3-27	YG 2.03
9-99	<i>Except as otherwise provided in Sections 4.3.1 and 4.3.4, MGP will procure Project Work through an open procurement process, either through a bid and/or negotiated process as determined by MGP. Proposals to provide Project Work will be evaluated as described in Section 4.2.1; provided that if any two (2) or more proposals are determined by MGP to be otherwise equivalent on a Best Total Value basis, such Project Work shall be awarded based upon the following priority:</i> <i>a. Listed Businesses of the Region or, in the case of work that is trans-Regional, of the Regions, in which the Project Work is required;</i> <i>b. other Listed Businesses of the Regions;</i> <i>c. NWT Businesses of the Regions other than those referred to above;</i> <i>d. except as prohibited by applicable Regulations, NWT Businesses other than those referred to above; and</i> <i>e. all other businesses.</i>	4.3.2		
9-100	The proponents will include requirements about business opportunities in the benefits and access agreements with the directly affected regions in the Northwest Territories and in the GNWT Socio-Economic Agreement.			YG 2.03
9-101	<i>MGP will require that a Content Plan be included in each proposal to provide Project Work. The successful business' Content Plan will be incorporated into the contract for such Project Work and monitored and enforced by MGP during the performance of such Project Work.</i>	4.3.3	Vol. 6A, Sec. 3.1.4.1, p. 3-27	
9-102	The proponents will give particular emphasis to local content plans when evaluating bids and subsequently awarding work and supply packages for the project.		Vol. 6A Sec. 3.1.4.1, p. 3-27	
9-103	<i>Corporate agreements are generally established by MGP for the supply of certain goods and services on a company wide, long term basis. MGP may opt to or may be contractually required to obtain Project Work through these corporate agreements without restriction.</i>	4.3.4		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-104	<i>In managing the procurement process and in making decisions as part of such process, MGP will:</i> <i>a. provide NWT Businesses with reasonable notice of Project Work, as provided in Section 4.4.4; and</i> <i>b. use reasonable commercial efforts to structure Project Work packages, where appropriate, to align with the capacities of NWT Businesses;</i> <i>provided that MGP reserves the right to approve or disapprove contracting with any business subject to the Operators' obligations under this Agreement.</i>	4.4.1	Vol. 6A, Sec. 3.1.4.1, p. 3-27, Sec. 3.1.4.1, p. 3-27	
9-105	<i>The Operators are committed to assisting NWT Businesses that are interested in building capacity and making proposals to perform Project Work. The MGP Parties will assist such NWT Businesses in understanding business opportunities associated with Project Work by providing detailed information relating to Project requirements, pre-qualification and bidding processes, training opportunities, required management systems (including those related to safety) and policies (including drug and alcohol policies), and Content Plan requirements. Assistance provided by the MGP Parties will include workshops in the Northwest Territories, distribution of printed material, resource contacts, websites and personnel to liaise with NWT Businesses.</i>	4.4.2	Vol. 6A, Sec. 3.1.4.1, p. 3-27	YG 2.03
9-106	The proponents will offer to communicate with unsuccessful bidders to help them bid more effectively in the future.		Vol. 6A, Sec. 3.1.4.1, p. 3-28	
9-107	The proponents will participate in coordinating the Aboriginal, government and educational institutions with business and industry organizations, to develop business management skills.		Vol. 6A, Sec. 3.1.4.2, p. 3-29	
9-108	<i>The Operators commit to supporting the development of Northwest Territories manufacturing through the purchase by MGP of products manufactured in the Northwest Territories for the Project.</i>	4.4.3		
9-109	<i>MGP will utilize an electronic bulletin board to ensure that opportunities for Project Work are clearly and consistently communicated to NWT Businesses. This process will facilitate:</i> <i>a. registration of interested businesses,</i> <i>b. communication of descriptions of opportunities relating to the Project Work, and</i> <i>c. relaying expressions of interest from businesses to MGP which relate to Project Work.</i>	4.4.4	Vol. 6A, Sec. 3.1.4.1, p. 3-27	YG 2.03

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-11: Mackenzie Gas Project Summary Commitments, Education, Training, Employment and Procurement – Topic 9 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
9-109 (cont'd)	<i>In order for an NWT Business to be considered for an opportunity, it will be required to make its interest in such opportunity known through an expression of interest. All such responding NWT Businesses will be considered for inclusion in the list of businesses to whom requests for bids or proposals will be addressed, subject to the provisions of Sections 4.3.1, 4.3.2 and 4.3.4. Prior to the electronic bulletin board being established, bidding opportunities will be communicated by other means.</i>			
9-110	The proponents will use existing documentation of business capacity and capability, such as those provided by Chambers of Commerce and Land Claim settlement groups.			FSV 2.19
9-111	<i>MGP will provide such advance notice as is practicable so that interested NWT Businesses can take the steps necessary, if required, to become qualified to compete for Project Work. If an NWT Business fails to qualify to compete for Project Work, MGP shall provide feedback to such business to allow it to take such actions as may be necessary for it to become qualified for future opportunities.</i>	4.4.5		
9-112	The proponents will discuss procurement plans with Yukon business representatives.			YG 2.03
9-113	<i>MGP reserves the right to employ simplified procurement procedures where there is a minimal estimated contract value.</i>	4.4.6		
9-114	<i>MGP may, by various means and from time to time, support efforts by GNWT and the Primary Communities to foster the development of NWT Businesses and their access to Project Work by:</i> <i>a. holding workshops to assist NWT Businesses understand Project procurement processes and safety management, Project policies (including alcohol and drug policies) and other Project requirements;</i> <i>b. supporting the transfer of business knowledge; and</i> <i>c. assessing northern market supply capacities, including the potential to grow to meet specific needs</i>	4.5.1		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-12: Mackenzie Gas Project Summary Commitments, Project-Related Expenditures and Economic Benefits – Topic 10**

Commitment No.	Summarized Commitment Statement	References		
		SEA *	EIS or Supplement	IR Response
10-1	<i>In procuring camp accommodation units for Project Workers in Construction camps, the Operator of the Mackenzie Valley Pipeline will make reasonable commercial efforts to afford GNWT an opportunity to acquire some of the surplus units at the end of Construction for conversion by GNWT to permanent housing. The Operator of the Mackenzie Valley Pipeline will negotiate an arrangement with the Northwest Territories Housing Corporation to document the mutual commitments of the parties and cost reimbursement mechanisms related thereto.</i>	6.2.1		KGLC 1.02
10-2	<p><i>The Operator of the Mackenzie Valley Pipeline will assist in providing access to gas to “<b>NWT Small Market Consumers</b>”, as defined in the revised Toll Principles attached as Schedule B to the Amending Agreement to a Precedent Agreement for Firm Transportation filed by the Operator of the Mackenzie Valley Pipeline with the National Energy Board on June 30, 2006 (the “<b>Revised Toll Principles</b>”), and who generally consist of:</i></p> <ul style="list-style-type: none"> <li><i>• residential, commercial and institutional consumers in the Northwest Territories;</i></li> <li><i>• industrial and manufacturing consumers, where the total gas consumption by any such consumer at any particular location in the Northwest Territories is less than 100,000 GJ in any calendar year; and</i></li> <li><i>• a person who uses or consumes gas in the Northwest Territories as fuel in order to generate electricity that is supplied to:</i> <ul style="list-style-type: none"> <li><i>• residential, commercial and institutional users in the Northwest Territories; and</i></li> <li><i>• industrial and manufacturing users which are located in the Northwest Territories and which use, at any particular location, in any calendar year, an amount of electricity that is less than the amount of electricity that could be generated for such location from 100,000 GJ of gas.</i></li> </ul> </li> </ul>	6.3.1		
10-3	<i>The Operator of the Mackenzie Valley Pipeline will design the tolls for the Mackenzie Valley Pipeline so as to provide a credit to each firm shipper on the Mackenzie Valley Pipeline that makes deliveries of gas to any delivery point located in the Northwest Territories for use by a NWT Small Market Consumer. Such credit will be effectively equal to 50% of the demand charge (expressed on a dollars per gigajoule basis) that would be paid by such firm shipper under a 20 year firm service transportation contract for the Mackenzie Valley Pipeline and will be determined as more particularly described in the Revised Toll Principles.</i>	6.3.2		GNWT 2.03
10-4	<i>Access to gas from the Mackenzie Valley Pipeline to consumers in the Northwest Territories will be provided through the installation of access point valves on the Mackenzie Valley Pipeline in a manner that is consistent with the Mackenzie Valley Pipeline Operator’s submissions to the National Energy Board and the Joint Review Panel. The cost of installing access point valves will be included in the rate base for the Mackenzie Valley Pipeline. The cost of all metering and other interconnection facilities downstream of the access point valves that are required to provide delivery of gas from</i>	6.3.3		GNWT 2.03

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-12: Mackenzie Gas Project Summary Commitments, Project-Related Expenditures and Economic Benefits – Topic 10 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
10-4 (cont'd)	<i>the Mackenzie Valley Pipeline will be the responsibility of the third party seeking access to gas and will be subject to an interconnection agreement between such third party and the Operator of the Mackenzie Valley Pipeline. The Owners of the Mackenzie Valley Pipeline will own, and the Operator of the Mackenzie Valley Pipeline will construct and operate, such metering and other interconnection facilities.</i>			
10-5	<i>The Operator of the Mackenzie Valley Pipeline shall notify GNWT in a timely manner if it files with the National Energy Board any proposed change in the Revised Toll Principles relating to matters in this Section 6.3 by providing GNWT with a copy of the proposed revisions.</i>	6.3.5		
10-6	<i>In addition to the measures and benefits set out in Section 6.4.1, the effects of the Project will be to contribute to, support and enhance the continued growth and transfer of Project-related technology, knowledge and skills to NWT Residents and NWT Businesses through:</i>  <i>a. fostering employment and business opportunities for NWT Residents and NWT Businesses in the oil and gas industry by providing exposure to and the opportunity to work with knowledge and skills relevant to the industry and the Project prior to and during Construction;</i>  <i>b. providing opportunities to acquire skills and knowledge through education and training programs, such as those provided through POTC and Aboriginal Futures, that can be applied to other Northwest Territories industries and public services; and</i>  <i>c. creating long-term opportunities for employment and business in gas field and pipeline operations and maintenance beyond Construction;</i>  <i>as more particularly outlined in Articles 2 and 4.</i>	6.4.2	Vol. 6A, Sec. 3.1.4, p. 3-27	
10-7	<i>If an Operator identifies opportunities to develop Project-related technology in the Northwest Territories, it may, but is not obligated to, collaborate with GNWT to progress these opportunities in a manner that both:</i>  <i>a. is beneficial to such Operator, and</i>  <i>b. contributes to economic diversification and sustainability of the oil and gas industry in the Northwest Territories.</i>	6.4.3		
10-8	<i>MGP will discuss opportunities to transfer to GNWT or Aboriginal Authorities, or their designees, surplus camp assets identified by MGP. Any such transfer will be subject to receipt of any approvals required pursuant to applicable Regulations and to the execution of an agreement on reasonable commercial asset sale terms, which may include terms addressing consideration and appropriate releases and indemnities.</i>	6.5.1		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-12: Mackenzie Gas Project Summary Commitments, Project-Related Expenditures and Economic Benefits – Topic 10 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
10-9	<i>Prior to and during Construction and from time to time upon request, the MGP Parties will make available to GNWT and Aboriginal Authorities information that the MGP Parties acquire with respect to the locations, extent and quality of any granular resources within Project borrow sites in the Northwest Territories, subject to receipt of any necessary approvals from the owners of such resources and information.</i>	6.6.1	Vol. 6A, Sec. 4.1.4, p. 4-10	
10-10	<i>The Operators will discuss with GNWT and Aboriginal Authorities opportunities to transfer the Operators' respective interests with respect to borrow sites as identified by the Operators. Any such transfer will be subject to receipt of any approvals required pursuant to applicable Regulations and to the execution of an agreement on reasonable commercial assignment terms, which may include terms addressing consideration and appropriate releases and indemnities.</i>	6.6.2	Vol. 6B, Sec. 7.2.3, p. 7-20	GNWT 1.49
10-11	The proponents will negotiate compensation, where required, with granular resource owners, for removing granular resources from their lands.		Vol. 6B, Sec. 7.2.3, p. 7-21	
10-12	The proponents will incorporate local cultural, land use and environmental principles into project planning and implementation decisions regarding infrastructure and borrow sites.		Vol. 6B, Sec. 7.2.3, p. 7-21	
10-13	<i>The Operators will conduct activities related to the Project and the performance of their obligations under this Agreement both directly and through the use of Contractors. Where obligations in this Agreement are set out as obligations of:</i>  <i>a. "MGP", each of the Operators will comply with, and will ensure that each of their Contractors that undertakes the subject activities complies with, such obligations; and</i>  <i>b. the "MGP Parties", such obligations will be performed by one or more of the Operators, either directly or through one or more Contractors, on behalf of the Operators in compliance with the applicable provisions of this Agreement.</i>	7.1.1		
10-14	<i>The Operators shall ensure that their respective Contractors comply with the obligations under this Agreement that are applicable to such Contractor's respective activities, including through the inclusion of such obligations in contracts with Contractors, as applicable and appropriate. If an Operator determines that a Contractor is not in compliance with applicable obligations under this Agreement, such Contractor may be subject to sanctions, applied in the discretion of the respective Operator, up to and including termination of contract.</i>	7.1.2	Vol. 6A, Sec. 3.1.4, p. 3-27, Sec. 6.6.4.1, p. 6-56	YG 2.02

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-12: Mackenzie Gas Project Summary Commitments, Project-Related Expenditures and Economic Benefits – Topic 10 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
10-15	<i>Without limiting the generality of the foregoing, the Operators will:</i> <i>a. require all Contractors to provide all relevant information to the Operators to enable the Operators to fulfill the reporting commitments under this Agreement; and</i> <i>b. use reasonable commercial efforts to ensure that any employment agreements (written or unwritten), including project labour agreements or subcontracts to which Contractors are party contain such provisions as are necessary to ensure that the Operators' obligations with respect to training and employment as set out in this Agreement are implemented.</i>	7.1.3		
10-16	The proponents will require all contractors with a unionized workforce to have a collective agreement with the union that has been certified as their employees' bargaining agent. Any collective agreements between contractors and their signatory unions will be required to comply with the terms of any access and benefits agreements or related agreements, including any northern hiring preferences.			NWTLC 1.06
10-17	The proponents will require all contractors with a unionized workforce to sign a project labour agreement that will document the proponents' requirements, including the requirement to use qualified northerners.		Additional Information Report, Sec. 6.6.4.1, p. 6-56	

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-13: Mackenzie Gas Project Summary Commitments, Project-Related Economic Costs and Physical Infrastructure Impacts – Topic 11**

Commitment No.	Summarized Commitment Statement	References		
		SEA *	EIS or Supplement	IR Response
11-1	<i>None of the Operators will make, and each Operator will make reasonable commercial efforts to discourage its Contractors from making, unsolicited job offers to employees of GNWT or of a "health facility" or a "social services facility" as defined in the Hospital Insurance and Health and Social Services Administration Act (NWT) for Project Work in the areas of health care or social services.</i>	3.2.13		
11-2	<i>None of the Operators will make, and each Operator will make reasonable commercial efforts to discourage its Contractors from making, unsolicited job offers to employees of local governments who provide key municipal services.</i>	5.3.10		
11-3	The proponents will support the development of strategies to mitigate the loss of community staff on a community-specific basis, with the project and community agencies directly involved.			GNWT 1.43
11-4	The proponents will continue to hold discussions with local communities, Aboriginal organizations, chambers of commerce, major contractors, unions and human resources and sustainable development, to develop a strategy, to meet the construction workforce requirements, to manage effects on northern communities.		Vol. 6A, Sec. 3.1.4.4, p. 3-9	FSV 2.17 NWTLC 2.04
11-5	The proponents will work with contractors and potentially affected communities to develop ways to share the use of local maintenance service providers, in recognition of the communities' reliance on these services.		Vol. 6A, Sec. 3.1.4.4, p. 39	GNWT 1.40 FSV 2.17
11-6	<i>MGP will be responsible for safety and security at Project camps and worksites.</i>	3.5.1		GNWT 1.22
11-7	The project proponents will evaluate, with input from RCMP representatives, site-specific requirements, such as security fencing, lighting, cameras and foot patrols, as planning progresses.			GNWT 1.22
11-8	<i>The proponent and GNWT will collaborate to develop incident response, access and reporting procedures to promote Project Worker and public safety and security relating to the Project.</i>	3.5.2		
11-9	<i>Prior to the commencement of Construction Activities, the Parties will negotiate a memorandum of understanding relating to the services of the Royal Canadian Mounted Police to set out an administrative process for collaborating and addressing public safety needs arising out of or related to the Project, which may include provisions for agreement on cost-recovery or compensation measures for services determined to be outside of the scope of the existing policing mandate.</i>	3.5.3		
11-10	<i>The MGP Parties will consult with affected communities and GNWT to develop measures to address public safety due to Project-related increased traffic volumes on highways and community roads. Such consultation might include consideration of:</i> <i>a. proposed routes and alternatives;</i> <i>b. on site evaluations of road conditions;</i> <i>c. adjacent utilities and crossing locations;</i>	5.3.7	Vol. 6A, Sec. 4.1.4, p. 4-10	FSV 2.26 GNWT 1.46

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-13: Mackenzie Gas Project Summary Commitments, Project-Related Economic Costs and Physical Infrastructure Impacts – Topic 11 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
11-10 (cont'd)	<i>d. sensitive community infrastructure, such as schools and hospitals; and e. potential mitigation measures, including dust control, routes, speed, weight and time restrictions.</i>			
11-11	The proponents will enter into agreements with the GNWT and applicable municipalities that consider: <ul style="list-style-type: none"> <li>coordinating road maintenance activities, recognizing: <ul style="list-style-type: none"> <li>the timing of highway and winter road maintenance</li> <li>the need to install and maintain ice roads and bridges</li> <li>access restrictions</li> </ul> </li> <li>coordinating road upgrading, where required</li> <li>making contributions in kind, such as constructing winter roads, maintaining and repairing highways, or contributing to a portion of maintenance costs</li> </ul>		Vol. 6A, Sec. 4.1.4, p. 4-10	
11-12	The proponents will use pilot vehicles when transporting oversized truck loads on public roads, where required.		Vol. 6A, Sec. 4.1.4, p. 4-11	FSV 2.26 DAS 1.30
11-13	The proponents will observe road bans before winter freeze-up and during spring break-up, unless otherwise approved.		Vol. 6A Sec. 4.1.4, p. 4-11	
11-14	The proponents will post and enforce speed limits for project vehicles on project access roads, and have project vehicles adhere to speed limits on public roads.		Vol. 6A, Sec. 4.1.4, p. 4-11	FSV 2.26 DAS 1.30
11-15	The proponents will regularly inspect transportation equipment for safety. Safety will be taken into account when planning contractor delivery schedules.		Vol. 6B, Sec. 5.3.11.2, p. 5-74, Sec. 5.5.4, p. 5-97	
11-16	<i>The Operators intend to provide an independent source of fuel supply for Project-related purposes during Construction. Throughout Construction, the Operators will not, and will make reasonable efforts to cause their Contractors to not, purchase any diesel fuel or gasoline from GNWT or its agents in Fort Good Hope, Tulita, Trout Lake or Tsiigehtchic for Project-related purposes without first obtaining consent from GNWT.</i>	5.2.1		
11-17	<i>MGP will transport personnel, material, goods and equipment by rail, road, barge and air, and will select the appropriate mode of transportation based upon the mode which most efficiently meets Project needs, taking into account impacts on existing levels of transportation services to Northwest Territories communities, safety, volume of shipment, schedule, community re-supply and cost.</i>	5.3.1	Vol. 6A, Sec. 4.1.4, p. 4-10	GNWT 1.57

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-13: Mackenzie Gas Project Summary Commitments, Project-Related Economic Costs and Physical Infrastructure Impacts – Topic 11 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
11-18	<i>On a timely basis prior to Construction, the MGP Parties will provide to GNWT an updated Project transportation and logistics plan, including contingency options.</i>	5.3.3		
11-19	<i>During Construction, MGP will seek not to disrupt the existing level of public access to the various modes or sites of transportation, including using reasonable commercial efforts to:</i> <i>a. provide lead time to air, barge and rail service providers to allow them to meet both community requirements and Project demands; and</i> <i>b. work with barge and rail system providers so that necessary capacity improvements to barge and rail infrastructure can be completed prior to the commencement of Construction Activities.</i>	5.3.4	Vol. 6A, Sec. 4.1.4, p. 4-10	DGGDC 1.02 DAS 1.30 GNWT 1.59
11-20	The proponents will make it a priority to maintain the existing level of services to communities. They will protect the re-supply to communities via barge and winter road, which includes transporting petroleum products required by the communities. Project facilities will not use communities' energy or utilities services, unless a mutually beneficial arrangement is negotiated between the proponents and a community.		Additional Information Report, Sec. 2.1.3, p. 2-2	DAS 1.30 GNWT 003
11-21	The proponents will manage increased demand for air travel by using chartered aircraft dedicated to the project, where practical.			DAS 1.30
11-22	The proponents will transport construction personnel on chartered aircraft to hub airports at Inuvik, Norman Wells and Fort Simpson, where practical.			GNWT 1.57 GNWT 1.6.2
11-23	The proponents will use buses, smaller chartered aircraft and helicopters to transport construction personnel from hub airports to project work sites, where practical.		Vol. 6A, Sec. 4.1.4, p. 4-11	GNWT 1.57 FSV 2.26
11-24	The proponents will coordinate arrival and departure times of chartered aircraft with commercial airline schedules for each location, to reduce the potential for congestion.			GNWT 1.57
11-25	The proponents will not typically leave chartered aircraft on the ground overnight.			GNWT 1.57
11-26	The proponents will conduct security checks, baggage handling and passenger transfers in a way that mitigates local airport infrastructure impacts.			GNWT 1.57
11-27	The proponents will not use airports at Yellowknife and Hay River as hubs or crew transfer points, and will not require airport upgrades. The proponents will continue to work with the Department of Transport and local authorities to address project requirements and develop detailed plans.			GNWT 1.57
11-28	MGP will implement appropriate measures intended to mitigate safety risks caused by interactions between Project-related traffic and traffic at adjacent community docks, aquatic recreational facilities and public boating facilities.	5.3.5		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-13: Mackenzie Gas Project Summary Commitments, Project-Related Economic Costs and Physical Infrastructure Impacts – Topic 11 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
11-29	<i>Prior to or during Construction, the Operators will negotiate arrangements, including reasonable cost sharing agreements, with GNWT and the municipalities of Inuvik, Norman Wells, Fort Simpson and Hay River, as appropriate, with respect to:</i> <i>a. capital upgrades to the Public Transportation System required by the Project, recognizing that such capital upgrades may also provide long term benefits for GNWT and Northwest Territories communities;</i> <i>b. costs of additional maintenance required for roads and highways, such as dust suppression, directly attributable to Project activities; and</i> <i>c. operational considerations.</i>	5.3.6	Vol. 6A, Sec. 4.1.5.2, p. 4-13, Additional Information Report, Sec. 2.1.3, p. 2-2	GNWT 1.4.6 GNWT 1.6.2 DAS 1.30
11-30	<i>On a timely basis prior to Construction, the Operators will negotiate arrangements, including fee-for-service agreements if appropriate, with the municipalities of Inuvik, Norman Wells, Fort Simpson and Hay River, as appropriate, with respect to Project-related use of the municipal services provided by such communities.</i>	5.3.8		INAC 1.129s
11-31	<i>The Operators do not expect that municipal-type services of communities other than those set out in the Socio-economic Agreement Section 5.3.8 above will be used for Project-related purposes. If a mutually beneficial opportunity for Project-related use of municipal-type services of another community arises, the Operators will negotiate arrangements, including fee-for-service agreements if appropriate, with such community or GNWT, as appropriate, prior to the use of such services.</i>	5.3.9		GNWT 003
11-32	The proponents will only use community landfills after obtaining approval from the municipality. Otherwise, they will remove solid waste to approved landfills.		Vol. 6B, Sec. 5.4.5.1, p. 5-89	JRP IR 3.02
11-33	<i>MGP will mitigate Project effects on housing in the Northwest Territories during Construction by implementing appropriate policies and procedures to house Project Workers in self-contained camps, discourage Project Workers in transit between camps and their home communities from entering other Northwest Territories communities, recruit in each of the Primary Communities and discourage non-NWT Residents from migrating to the Northwest Territories to seek Project employment, as more particularly outlined in Sections 2.3.2b,,2.3.2c, 2.5.2b, 2.5.2d, 3.3.2.</i>	5.4.1	Vol. 6A, Sec. 4.3.4	AIR Sec. 11.2.4.4, p. 11-40 NWTLC 2.06
11-34	The proponents will provide camps large enough to accommodate the direct workforce, including subcontractors, and others indirectly involved in the project, such as project managers, inspectors, environmental monitors, consultants and regulators.		Vol. 6A, Sec. 4.3.4	GNWT 1.68
11-35	In a timely manner prior to the commencement of Construction Activities, MGP will develop, in accordance with applicable Regulations, a detailed set of emergency response plans and emergency procedures dealing with emergencies, malfunctions and incidents that may occur during Construction. MGP will also develop appropriate plans and procedures on a timely basis for the other Project phases.	5.5.1		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-13: Mackenzie Gas Project Summary Commitments, Project-Related Economic Costs and Physical Infrastructure Impacts – Topic 11  
(cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
11-36	<i>MGP will collaborate, where appropriate, with GNWT and local governments to develop and maintain emergency planning and response arrangements, including for mutual aid. This collaboration may include participation by the Operators on the Territorial Emergency Response Committee, as it may be renamed, continued, replaced or succeeded from time to time.</i>	5.5.2		
11-37	<i>During Construction, after consultation with GNWT, the MGP Parties will locate emergency response units along road and highway systems in the Northwest Territories where the Operators deem appropriate. Such emergency response units would have the capacity to supplement GNWT and community emergency response capabilities.</i>	5.5.3		
11-38	The proponents will ensure that all camps and all work sites have appropriate dedicated emergency transportation available.			GNWT 1.05 GNWT 1.09 GNWT 1.10
11-39	<i>The arrangements made pursuant to this Section will be consistent with arrangements made pursuant to Socio-economic Agreement Section 3.6.3</i>	5.5.4		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-14: Mackenzie Gas Project Summary Commitments, Responding to Socio-Cultural Impacts – Topic 13**

Commitment No.	Summarized Commitment Statement	References		
		SEA *	EIS or Supplement	IR Response
13-1	<i>The Parties recognize that the health and wellness of individuals and families is fundamental to the social and economic sustainability of the Northwest Territories. Each Operator has an overarching regard for safety, and for respect of individuals and communities. The Parties acknowledge that mitigation measures that address potential Project-induced, adverse effects on individuals, families, and communities and cultural wellbeing are a shared responsibility. The Parties will work to promote individual, family and community wellbeing and cultural preservation and sustainability, collaborating with third parties where appropriate.</i>	3.1.1		
13-2	<i>MGP will implement and enforce policies and practices directed to ensuring that all Project worksites, including campsites, will be alcohol and drug free. Such policies and practices will include reasonable enforcement mechanisms, which may include lawful inspections, searches and testing for alcohol and drugs.</i>	3.2.1	Vol. 6B, Sec. 5.2.4, p. 5-15, Sec. 5.5.4, p. 5-97, Additional Information Report, Sec. 6.8.4.2, p. 6-66	INAC 1.129s, GNWT 1.18
13-3	The proponents will screen workers for alcohol and drugs and will make drug testing a part of the policy for alcohol and drug-free workplaces and camps.			GNWT 1.16 GNWT 1.18, GNWT 1.19
13-4	The proponents will determine the: <ul style="list-style-type: none"> <li>• type and level of alcohol and drug addiction counselling that will be offered to workers</li> <li>• required level of training for addiction counsellors as project execution plans are developed and the level of counselling is defined.</li> </ul>			NWTLC 1.02, GNWT 1.14
13-5	<i>Each Operator will, and will use reasonable commercial efforts to encourage its Contractors to, provide resources, support and guidance to encourage money management, including initiating a program permitting Project Workers to designate a portion of their wages for deposit to a savings account.</i>  <i>Work with communities and governments to encourage people to use their earnings wisely.</i>	3.2.3	Additional Information Report, Sec. 2.1.5, p. 2-5, Sec. 6.8.3.2, p. 6-64  Vol.6A, Sec. 3.1.4.3, p. 3-37, Sec. 5.5.4, p. 5-97  Vol. 6B, Sec. 5.2.4, p. 5-15	
13-6	The proponents will take a leadership role, where appropriate, in coordinating the participation of Aboriginal, government and educational institutions with business and industry organizations, to support work site and life skills training and programs for workers.		Vol.6A, Sec. 3.1.4.3, p. 3-37, Sec. 3.1.4.2, p. 3- 32	GNWT 1.88, GNWT 1.14

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-14: Mackenzie Gas Project Summary Commitments, Responding to Socio-Cultural Impacts – Topic 13 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
13-7	<i>MGP will designate a recreation area in each camp, which will include recreation facilities and equipment that are suitable in the context of the size and nature of such camp.</i>	3.2.6	Vol. 6A, Sec. 4.4.4, p. 4-52	GNWT 1.41, FSV 2.30
13-8	<i>MGP will provide Aboriginal Persons and NWT Residents who are Project Workers with employee assistance programs that are generally consistent with the employee assistance programs ordinarily provided by their respective employers to their other employees employed in comparable positions. These programs may include mental health services, substance abuse programs, money management, gambling and family counselling. The Operators will encourage Contractors to develop their own or participate in an employee assistance program.</i>	3.2.7		
13-9	<i>The MGP Parties will make telephone and internet facilities available to Project Workers at camp sites that will enable them to communicate at their own expense with their home communities.</i>	3.2.15		
13-10	<i>The Operators will, from time to time and in a manner that is consistent with their respective principles and practices for community involvement, provide funding for GNWT and community programs:</i> <ul style="list-style-type: none"> <li><i>promoting, for example, healthy lifestyles, alcohol and drug awareness, active living, fitness and participation in sport and recreation activities, family violence prevention, and parenting and family support programs; and</i></li> <li><i>designed, for example, to support youth in making healthy and productive choices, building self-confidence, and developing life skills which will enable them to become productive workers.</i></li> </ul>	3.2.8		GNWT 1.14, GNWT 1.15
13-11	<p>The proponents will:</p> <ul style="list-style-type: none"> <li>support government programs to provide assistance to families and communities of workers, such as life skills training and addictions counselling</li> <li>support the government programs, such as life skills training and addictions counselling offered to families of employees and endeavor to provide the same programs in the construction camps that the government is offering</li> </ul> <p>The proponents will not directly provide the support systems and resources to the extended families of project workers.</p> <p>The proponents will encourage the territorial government to consider possible ways to expand the number and capacity of women's shelters in the study area, including:</p> <ul style="list-style-type: none"> <li>free hotel or motel accommodation for abused women and children until they can be transported to an established women's shelter elsewhere</li> <li>free transportation to shelter facilities with unused capacity</li> <li>secure, local, informal shelter arrangements in all communities where no formal shelters or hotel accommodation options exist</li> </ul>		<p>Vol.6A, Sec. 3.1.4.2, p. 3-32,</p> <p>Vol. 6B, Sec. 5.2.4, p. 5-15, Sec. 5.5.4, p. 5-97</p> <p>Mackenzie Gas Project Gender Analysis, Sec. 5.1.3.2, p. 5-7</p>	GNWT 1.99, GNWT 1.1.5

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-14: Mackenzie Gas Project Summary Commitments, Responding to Socio-Cultural Impacts – Topic 13 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
13-12	<i>MGP will be responsible for the cost of health care coverage for Project Workers who are not eligible for provincial or territorial health care coverage.</i>	3.2.9		
13-13	<i>The MGP Parties, in consultation with GNWT and communities, as applicable, will develop, on a timely basis prior to the commencement of Construction Activities, plans for Project-related mass casualty evacuations and for quarantine/isolation of Project Workers in the event of an outbreak of infectious disease for the Construction phase and will develop such plans on a timely basis for the other Project phases as appropriate.</i>	3.2.10		
13-14	<i>Consistent with Sections 2.4.3 and 3.6.3, MGP will, at their own cost, require a fitness to work assessment for every newly hired Project Worker prior to arriving at the Project worksite. Fitness to work assessments will help identify medical conditions which may prevent the performance of essential job tasks or may preclude assignment to a remote northern work environment.</i>	3.2.11	Vol. 6B, Sec. 5.3.4, p. 5-	GNWT 1.20
13-15	The proponents will follow fitness-for-work assessment procedures for workers including: <ul style="list-style-type: none"> <li>• assessing an individual's skills and experience</li> <li>• assessing an individual's physical capability to satisfy job demands</li> <li>• assessing the results of a medical questionnaire, as required</li> <li>• verifying that job requirements, such as having a driver's licence with the appropriate classification and providing a driver's abstract, are met</li> </ul>			GNWT 1.20
13-16	<i>MGP will take reasonable measures to protect Project Workers from the spread of infectious disease in camps. Such measures may include appropriate immunization programs as recommended by Health Canada's Canadian Immunization Guide and development of health promotion and illness prevention programs. MGP will provide access to the details of such measures and programs to the Chief Medical Health Officer appointed under the Public Health Act (NWT).</i>	3.2.12		HC 1.14
13-17	The proponents will ensure that construction camps meet regulatory requirements with regard to health protection facilities and staff. Consultations between GNWT Health and Social Services staff and project representatives will be ongoing, to devise coordinated ways of dealing with disease and controlling its spread.		Additional Information Report, Sec. 6.8.3.1, p. 6-63	GNWT 1.05
13-18	<i>The MGP Parties will provide transportation from the nearest location accessible by public means for GNWT health officers who may be required by Regulation to attend a camp that is not reasonably accessible by public means.</i>	3.2.14		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-14: Mackenzie Gas Project Summary Commitments, Responding to Socio-Cultural Impacts – Topic 13 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
13-19	<p><i>The Parties will negotiate arrangements for access to GNWT health and social services for Construction, including procedures to access the following in the Northwest Territories:</i></p> <ul style="list-style-type: none"> <li><i>medical travel system; and</i></li> <li><i>hospitals and health centres.</i></li> </ul> <p><i>The Parties will use reasonable efforts to conclude such arrangements on a timely basis prior to Construction.</i></p>	3.6.3	Vol. 6B, Sec. 5.3.4, p. 5-54, Additional Information Report, Sec. 2.1.5, p. 2-6	
13-20	<p>The proponents and their construction contractors will design project health and work environment guidelines, procedures and protocols for:</p> <ul style="list-style-type: none"> <li>medical alert and quarantine conditions</li> <li>fitness-to-work assessments</li> <li>assessment and care of ill or injured workers</li> <li>camp food</li> <li>waste handling and storage</li> </ul>		Vol. 6B, Sec. 5.3.4, p. 5-54	HC 1.14
13-21	The proponents will compile a comprehensive list of contacts containing the names and contact information of construction contractors, camp management and senior medical personnel, and will share it with GNWT Health and Social Services in Yellowknife and with the regional health authorities.		Vol. 6B, Sec. 5.3.4, p. 5-54	
13-22	The proponents will ensure that construction contractors and camp medical staff are provided with a comprehensive list of contacts for the GNWT Health and Social Services and the regional health authorities.		Vol. 6B, Sec. 5.3.4, p. 5-54	
13-23	Project construction camps will allow smoking only in designated areas, according to Northwest Territories legislation.		Additional Information Report, Sec. 6.8.3.3, p. 6-64	
13-24	The proponents will design camps to reduce the impact on the existing NWT health care system. This design includes the direct delivery of emergency and primary care by qualified medical personnel in larger camps.			GNWT 1.07, GNWT 1.05, GNWT 1.09, HC 1.14
13-25	The proponents will pay the full costs of transporting workers from construction camps to the closest available hospital with an appropriate level of medical care.			GNWT 1.10, GNWT 1.11, HC 1.14
13-26	The proponents will have a public health assessment performed at project camps, to identify and characterize public health risks, and to have a basis for recommending appropriate programs and controls for mitigating risks. The requirements of the project's public health assessment will be reconciled with those of the Northwest Territories, to satisfy the requirements of both.			HC 1.14

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-14: Mackenzie Gas Project Summary Commitments, Responding to Socio-Cultural Impacts – Topic 13 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
13-27	The proponents will design camps that process wastewater to meet established criteria before discharging it to the environment.		Vol. 6B, Sec. 5.4.4.1, p. 5-88	
13-28	The proponents will either equip mobile camps with potable water filtration and grey water treatment systems, or provide tanks to store fluids before they are transported by truck to appropriate treatment facilities.		Vol. 6B, Sec. 5.4.4.1, p. 5-88	
13-29	The proponents will reduce public exposure to the toxic components of diesel exhaust by: <ul style="list-style-type: none"> <li>• encouraging the use of late-model diesel-powered vehicles</li> <li>• avoiding allowing vehicles to idle near camps and communities, except under extremely cold conditions</li> <li>• using railroad and barge transportation systems instead of trucks to move materials and equipment, where practical</li> <li>• using bypass roads through and around settlements, where available</li> </ul>		Vol. 6B, Sec. 5.4.2.1, p. 5-79	GNWT 1.101
13-30	If a spill occurs, the proponents will use established: <ul style="list-style-type: none"> <li>• emergency spill response procedures to limit the extent of contamination</li> <li>• cleanup and remediation techniques to eliminate the potential for human health effects through ingestion of traditional foods from the spill area</li> </ul>		Vol. 6B, Sec. 5.4.5.1, p. 5-89, Sec. 5.4.5.2, p. 5-89	
13-31	<i>The MGP Parties will support and encourage the promotion of cultural preservation, sustainability and understanding by:</i> <ul style="list-style-type: none"> <li>• <i>providing and funding cultural sensitivity and cross cultural awareness training to all Project Workers;</i></li> <li>• <i>providing interpreters at community meetings, where required;</i></li> <li>• <i>encouraging Aboriginal language use by providing access to Aboriginal language reading material and Aboriginal language radio and television broadcasts, tapes, CDs and/or other media at camp sites, where commercially available; and</i></li> <li>• <i>using appropriate communication, including interpreters and translators, where required in the human resources processes for all Project Workers, such as interviewing and hiring.</i></li> </ul>	3.3.1	Vol. 6B, Sec. 5.5.4, p. 5-97, Sec. 6.2.4, p. 6-31, Additional Information Report, Sec. 2.3.2, p. 2-11, Sec. 2.1.5, p. 2-6, Sec. 2.3.2, p. 2-11	DGGDC 006
13-32	The proponents will: <ul style="list-style-type: none"> <li>• respect a community's right to privacy and discourage workers from entering any community that asks for privacy</li> <li>• include discussions in initial orientations with workers about respecting community privacy, and discourage workers from visiting communities that request privacy</li> </ul>		Vol. 6A, Sec. 3.1.4.3, p. 3-37, Vol. 6B, Sec. 5.2.4, p. 5-15	GNWT 1.17

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-14: Mackenzie Gas Project Summary Commitments, Responding to Socio-Cultural Impacts – Topic 13 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
13-32 (cont'd)	<ul style="list-style-type: none"> <li>remind workers of this commitment by posting notices and other communication at work sites and in camps</li> <li>require contractors and subcontractors to include this requirement as part of their construction and execution plans</li> </ul>			
13-33	<p>Before beginning construction, the proponents will arrange for community leaders to meet with contractors' representatives operating from camps near communities, and will:</p> <ul style="list-style-type: none"> <li>introduce the representatives to the community leaders</li> <li>describe the construction activities planned for each area</li> <li>identify key project contacts</li> <li>review camp operations and procedures, including how requests for privacy from communities will be managed</li> <li>consider providing a tour of camp facilities for a community delegation</li> </ul> <p>The proponents will also ensure that contractors and subcontractors respect the commitment to protect communities' privacy.</p>			GNWT 1.17
13-34	<p><i>Each Operator will support and encourage the promotion of cultural preservation, sustainability and understanding by:</i></p> <ul style="list-style-type: none"> <li><i>supporting cultural activities and events, including community-based traditional lifestyle initiatives promoting traditional culture and positive relationships with communities (such as Aboriginal language proficiency demonstrations and competitions), in a manner that is consistent with its principles and practices for community involvement; and</i></li> <li><i>assisting with financial support for community-based culture or language programs or agencies in the Northwest Territories from time to time and in a manner that is consistent with its principles and practices for community involvement.</i></li> </ul>	3.3.2	Vol. 6B, Sec. 6.1.4, Sec. 6.2.4, p. 6-31, Additional Information Report, Sec. 2.3.2, p. 2-11, Sec. 2.6.2, p. 2-19	DGGDC 2.06
13-35	<i>MGP will house Construction Project Workers in self-contained camps.</i>	3.3.3		
13-36	<i>MGP will, to the extent commercially reasonable, provide flexible work schedules to accommodate traditional harvesting, cultural, family and community needs in balance with the requirements of the Project, recognizing that flexibility will be limited during winter construction seasons.</i>	2.4.5	Vol. 6B, Sec. 6.1.4, Sec. 6.2.4, p. 6-31, Additional Information Report, Sec. 6.8.5.2, p. 6-70, Sec. 11.2.4.6, p. 11-44, Sec. 2.3.2, p. 2-11, Sec. 2.6.2, p. 2-19, Sec. 6.8.5.3, p. 6-70	INAC 1.110S, DGGDC 2.06

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-14: Mackenzie Gas Project Summary Commitments, Responding to Socio-Cultural Impacts – Topic 13 (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
13-37	<p><i>In addition to the scheduling commitments set out in Section 2.4.5, the MGP Parties will:</i></p> <ul style="list-style-type: none"> <li><i>in accordance with applicable Regulations, periodically make country foods available in Construction camps, where commercially available;</i></li> <li><i>provide, if requested by Aboriginal artisans, a reasonable opportunity for them to display and sell their handcrafts in Construction camps; and</i></li> <li><i>support community based traditional lifestyle initiatives that promote traditional harvesting (such as traditional harvesting camps for young people and traditional skill proficiency demonstrations and competitions) from time to time and in a manner that is consistent with their respective principles and practices for community involvement.</i></li> </ul>	3.4.1	<p>Vol. 6A, Sec. 3.1.4.3, p. 3-37,</p> <p>Vol. 6B, Sec. 6.2.4, p. 6-31, Sec. 5.2.4, p. 5-15,</p> <p>Additional Information Report, Sec. 2.3.2, p. 2-11, Sec. 2.6.2, p. 2-19, Sec. 2.1.5, p. 2-6</p>	GNWT 1.17, GNWT 1.101, DGGDC 2.06
13-38	<p>The proponents will encourage aspects of traditional culture by:</p> <ul style="list-style-type: none"> <li>supporting community cultural events that enhance language facility and competence in other traditional skills</li> <li>providing cross-cultural awareness training, and access to traditional language material</li> </ul>		<p>Additional Information Report, Sec. 6.8.5.3, p. 6-70, Sec. 2.1.5, p. 2-6</p> <p>Mackenzie Gas Project Gender Analysis, Sec. 6.2.3, p. 6-6</p>	
13-39	<p>The proponents will develop details of the programs to support traditional culture and traditional harvesting as the plans for the project are refined and as contracts for construction are awarded.</p> <p>The proponents will support community-based lifestyle initiatives that promote traditional culture, such as traditional harvesting training camps for young people</p>		<p>Additional Information Report, Sec. 2.3.2, p. 2-11</p> <p>Mackenzie Gas Project Gender Analysis, Sec. 6.2.3, p. 6-7</p>	GNWT 1.101
13-40	<p><i>The MGP Parties will use reasonable commercial efforts to provide advance notification of Project activities, locations and schedule to traditional land users who are either recognized as such pursuant to applicable Regulations or who have identified themselves as such in the community consultation process.</i></p>	3.4.2		



**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-15: Mackenzie Gas Project Summary Commitments, Environmental (Socio-Economic) Management Plans, Monitoring and Follow-Up Programs – Topic 14b**

Commitment No.	Summarized Commitment Statement	References		
		SEA *	EIS or Supplement	IR Response
14b-1	<p><i>Project-related effects will be monitored, as described in this Article 8 in a manner that will include:</i></p> <ul style="list-style-type: none"> <li><i>a. the verification of the accuracy and completeness of the predicted socio-economic effects described in the EIS and the identification of any additional material effects;</i></li> <li><i>b. the determination of the effectiveness of the mitigation measures in reducing or eliminating potential adverse effects and in enhancing socio-economic benefits associated with the Project;</i></li> <li><i>c. the adjustment of existing, or the development of new, mitigation measures, as required; and</i></li> <li><i>d. direct and timely response of the Parties to recommendations.</i></li> </ul>	8.2.1		
14b-2	<i>The Parties will work together to address any deficiencies in implementing any of their respective commitments set out in this Agreement.</i>	8.3.2		
14b-3	<p><i>The Parties recognize that management of many socio-economic issues can only be effective if done with the full cooperation of the Operators, GNWT and other stakeholders. To this end:</i></p> <ul style="list-style-type: none"> <li><i>• the Parties agree to establish an oil and gas socio-economic advisory board (the "Advisory Board") prior to commencement of Construction Activities; and</i></li> <li><i>• the Operators intend to create three (3) regional working groups to assist the Operators in managing Project-related effects during Construction. GNWT will participate in the regional working groups as appropriate.</i></li> </ul>	8.3.3	Vol. 6B, Sec. 10.3, p. 10-2.	NWTLC 2.04
14b-4	<i>The Advisory Board will consist of members comprising each of the Operators and GNWT, along with Aboriginal Authorities that accept the invitation of the Parties to participate by executing an agreement substantially in the form of the agreement attached hereto as Schedule "A". Members of the Advisory Board will select directors as set out in Schedule "A".</i>	8.4.2		
14b-5	<p><i>If, during Operations, GNWT enters into agreements with third party oil and gas industry participants with operations in the Northwest Territories requiring the reporting and monitoring of information that is substantively similar to the information required for reporting by MGP under this Agreement, then:</i></p> <ul style="list-style-type: none"> <li><i>a. the Parties may offer such third parties the opportunity to participate on the Advisory Board, as more expressly contemplated in Schedule "A", and to report and monitor their required information in a manner consistent with the procedures and requirements of this Agreement;</i></li> <li><i>b. participating third parties will contribute to the Advisory Board as more expressly contemplated in Schedule "A"; and</i></li> </ul>	8.4.8		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-15: Mackenzie Gas Project Summary Commitments, Environmental (Socio-Economic) Management Plans, Monitoring and Follow-Up Programs – Topic 14b (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
14b-5 (cont'd)	<i>c. the Operators may consider the use of reporting and monitoring systems created under agreements between GNWT and third parties; provided that such reporting and monitoring systems do not create additional obligations on the Operators.</i>			
14b-6	<i>The Parties will review reports and recommendations provided to them by the Advisory Board and assess the recommendations made by the Advisory Board. At the next meeting of the Advisory Board, each of the Parties will respond to the recommendations made to it, including reporting on any changes made to its activities as a result of such recommendations. Notwithstanding the foregoing, no amendments will be made to the Parties' respective commitments under this Agreement unless the Parties agree in writing to such amendments.</i>	8.6.3		
14b-7	<i>MGP and GNWT will obtain data that measures the effects of the Project as outlined in this Agreement. The Parties believe that the indicators set out in Section 8.5.2 are appropriate methods by which to measure such effects, but intend that such indicators will, by consensus of the Parties, be adapted from time to time if more appropriate methods to measure such effects are established.</i>	8.5.1.		
14b-8	<p><i>Subject to Section 8.5.1, the Operators will report the following Project-related data, along with its analysis and interpretation of such data, to GNWT and the Advisory Board annually, by July 1:</i></p> <ul style="list-style-type: none"> <li><i>a. Project-related employment by MGP, by community of residence, hiring priority criteria, gender and disability (all as reported by the employee) and job category, to be reported in person-hours and number of employees;</i></li> <li><i>b. during Construction, Project-related training initiatives by type, participation and completion rates;</i></li> <li><i>c. during Construction, the number of NWT Residents listed in the database referred to in Section 2.5.4, by community of residence and hiring priority criteria (all as disclosed by the registrant);</i></li> <li><i>d. during Construction, POTC enrolment, intakes and graduates;</i></li> <li><i>e. gross value of all goods and services purchased for the Project by category of purchase in relation to each phase of the Project and by the purchase priorities criteria outlined in Section 4.3.2, including the aggregate of goods and services produced in the Northwest Territories and goods and services produced outside the Northwest Territories that are purchased through NWT Businesses;</i></li> <li><i>f. the number and percentage of Project Workers who receive gender awareness and cross cultural training;</i></li> <li><i>g. the number of cultural events and activities that are financially supported by the Operators;</i></li> </ul>	8.5.2		

**JRP Information Request  
for Mackenzie Gas Project**

March 29, 2007

Response to JRP IR Round 5

**Table JRP 5.33-15: Mackenzie Gas Project Summary Commitments, Environmental (Socio-Economic) Management Plans, Monitoring and Follow-Up Programs – Topic 14b (cont'd)**

Commitment No.	Summarized Commitment Statement	References		
		SEA	EIS or Supplement	IR Response
14b-8 (cont'd)	<i>h. the number of community based cultural or language programs or agencies in the NWT supported by the Operators; and</i> <i>i. during Construction, lists of Aboriginal language material available to Project Workers at camp sites.</i>			
14b-9	<i>The Operators and GNWT shall include, in their respective reports required pursuant to Sections 8.5.2 and 8.5.3, information describing actions taken to optimize beneficial opportunities and mitigate negative impacts arising from the Project.</i>	8.5.4		
14b-10	<i>The Operators and GNWT shall make their respective reports described in Sections 8.5.2 and 8.5.3 public within thirty (30) days of issuing them to the Advisory Board and to each other.</i>	8.5.5		
Note*: In the event of any inconsistency or conflict among the Socio-Economic Agreement, relevant legislation or other agreements, the inconsistency or conflict will be resolved through the priority provision in Section 1.4.1 of the Socio-Economic Agreement, or as otherwise provided at law.				