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Filed Electronically

October 30, 2017

National Energy Board Suite 210, 517 Tenth Avenue SW Calgary, AB T2R 0A8

Attention: Ms. Sheri Young, Secretary of the Board

Dear Ms. Young:

**Re:** NOVA Gas Transmission Ltd. (NGTL)

**Towerbirch Expansion Project (Project)** 

Certificate GC-127 (Certificate) and Order XG-N081-25-2016 (Order)

Certificate Condition 6 and Order Condition 7 – Commitment Tracking Table No. 9

**NEB File OF-Fac-Gas-N081-2015-16 02** 

In accordance with Certificate Condition 6 and Order Condition 7, NGTL encloses Commitment Tracking Table No. 9 for the Project. The reporting period for this submission is September 29, 2017 to October 27, 2017.

As required NGTL has also posted the Project Commitment Table on TransCanada's external website for the Project at https://www.transcanada.com/en/operations/natural-gas/towerbirch-expansion-project/regulatory/. A copy of this tracking table is also available at NGTL's construction field offices at the following locations:

Groundbirch Mainline Loop: Tower Lake Section: 10105-13 Street 709-106 Avenue

Dawson Creek, BC V1G 4R3 Dawson Creek, BC V1G 4V9

If the Board requires additional information with respect to this filing, please contact me at (403) 920-7816 or by email at crystal rothenburger@transcanada.com.

Yours truly,

**NOVA Gas Transmission Ltd.** 

## Original Signed By

Crystal Rothenburger Regulatory Project Manager Regulatory, Canadian Gas Pipelines

Enclosure

Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
AR_1	Doig River First Nations	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for engagement and the completion of a community-led Traditional Land Use (TLU) study	Application, Appendix 13-1: Aboriginal Engagement Logs	A4T0Y1, A4T0Y8	Complete	Pre-Construction	Indigenous Relations	NGTL and DRFN executed a Project-specific Engagement Capacity Funding Agreement in July 2016.
									NGTL and DRFN executed a TEK/TLU Study Protocol Agreement in August 2015.
AR_2	Duncan's First Nation	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for a community-led TLU study	Application, Appendix 13-1: Aboriginal Engagement Logs Additional Written Evidence and TK Supplemental Report	A4T0Y1, A4T0Y8, A4Y9W5, A4X6I4	Complete	Pre-Construction	Indigenous Relations	<ul> <li>DFN indicated to NGTL that they would prefer to conduct a Map Review and Site Assessment instead of TLU study.</li> <li>NGTL and DFN executed an Agreement for the above activities in September 2016.</li> </ul>
AR_3	Horse Lake First Nation	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for a community-led TLU study	Application, Appendix 13-1: Aboriginal Engagement Logs	A4T0Y1, A4T0Y8	Complete	Pre-Construction	Indigenous Relations	<ul> <li>HLFN indicated to NGTL that they would prefer to conduct a Map Review and Site Assessment instead of TLU study.</li> <li>NGTL and HLFN executed an Agreement for the above activities in September 2015.</li> </ul>
AR_4	Kelly Lake Cree Nation	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for engagement and the completion of a community-led TLU study	Application, Appendix 13-1: Aboriginal Engagement Logs	A4T0Y1, A4T0Y8	Complete	Pre-Construction	Indigenous Relations	<ul> <li>NGTL and KLCN executed a Project-specific Engagement Capacity Funding Agreement in April 2015.</li> <li>NGTL and KLCN executed a TEK/TLU Study Protocol Agreement in October 2015.</li> </ul>
AR_5	McLeod Lake Indian Band	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for engagement and a community-led TLU study	Application, Appendix 13-1: Aboriginal Engagement Logs, Additional Written Evidence and TK Supplemental	A4T0Y1, A4T0Y8, A4X6I4, A4Y9W5	N/A	Pre-Construction	Indigenous Relations	MLIB has declined to provide a TLU Study, therefore this commitment no longer applies.
AR_6	Métis Nation of Alberta Region 6	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for engagement on the Project and the completion of a community-led TLU study	Application, Appendix 13-1: Aboriginal Engagement Logs, Additional Written Evidence and TK Supplemental	A4T0Y1, A4T0Y8, A4X6I4, A4Y9W5	Complete	Pre-Construction	Indigenous Relations	<ul> <li>NGTL and MNA R6 executed a Project-specific Engagement Capacity Funding Agreement in June 2015.</li> <li>NGTL and MNA R6 executed a TU Study Protocol Agreement in August 2016.</li> </ul>
AR_7	Métis Nation of British Columbia	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for a community-led TLU study	Application, Appendix 13-1: Aboriginal Engagement Logs	A4T0Y1, A4T0Y8	Complete	Pre-Construction	Indigenous Relations	NGTL and MNBC executed a TEK/TLU Study Protocol Agreement in July 2015.
AR_8	Saulteau First Nations	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for engagement on the Project and the completion of a community-led TLU study	Application, Appendix 13-1: Aboriginal Engagement Logs, Additional Written Evidence	A4T0Y1, A4T0Y8, A4X6I4	Complete	Pre-Construction	Indigenous Relations	SFN indicated to NGTL that they no longer required a TLU study to be completed and instead requested funding to conduct a site visit.
									<ul> <li>NGTL and SFN executed a Letter of Agreement for funding to conduct the site visit in October 2015.</li> <li>SFN has not responded to NGTL regarding</li> </ul>
									further interest in capacity funding.
AR_9	West Moberly First Nations	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for engagement and a community-led TLU study.	Application, Appendix 13-1: Aboriginal Engagement Logs, Additional Written Evidence and TK Supplemental Report	A4T0Y1, A4T0Y8, A4X6I4, A4Y9W5	Complete	Pre-Construction	Indigenous Relations	<ul> <li>NGTL and WMFN executed a Project-specific Engagement Capacity Funding Agreement in June 2016.</li> <li>NGTL and WMFN executed a TEK/TLU Study Protocol Agreement in June 2016.</li> </ul>

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
AR_10	British Columbia Métis Federation	Aboriginal Engagement Matters	NGTL committed to conduct mapping workshops with BCMF-affiliated communities to identify areas of interest and concern.	Application, Appendix 13-1: Aboriginal Engagement Logs	A4T0Y1, A4T0Y8	Complete	Pre-Construction	Indigenous Relations	NGTL and BCMF affiliated communities met and completed a mapping workshop in Q4 2014.
AR_11	Métis Nation of British Columbia	Aboriginal Engagement Matters	NGTL commits to meet with MNBC chartered communities closest to the Project and conduct mapping workshops with MNBC chartered communities to identify areas of interest and concern to be visited during a site visit.	Application, Appendix 13-1: Aboriginal Engagement Logs	A4T0Y1, A4T0Y8	Complete	Pre-Construction	Indigenous Relations	NGTL met with MNBC chartered communities to complete mapping workshops in Q4 2014 and Q1 2015.
AR_12	Blueberry River First Nations	Aboriginal Engagement Matters	NGTL commits to providing capacity funding for the Project, including funding for a community-led TLU study.	Additional Written Evidence, Traditional Knowledge (TK) Supplemental Report, Reply Evidence	A4X6I4, A4Y9W5, A4Z8S6	Complete	Pre-Construction	Indigenous Relations	<ul> <li>NGTL and BRFN executed a Project-specific Engagement Capacity Funding Agreement in July 2016.</li> <li>NGTL and BRFN executed a TEK/TLU Study Protocol Agreement in June 2016.</li> </ul>
AR_13	Prophet River First Nation	Aboriginal Engagement Matters	NGTL commits to provide capacity funding for engagement and a community-led TLU Study and/ or site visits to the Kiskatinaw River	Additional Written Evidence, TK Supplemental Report	A4X6I4, A4Y9W5	Complete	Pre-Construction	Indigenous Relations	<ul> <li>NGTL and PRFN executed a TEK/TLU Study Protocol Agreement in Dec 2016.</li> <li>PRFN did not respond to NGTL regarding engagement capacity Funding.</li> </ul>
AR_14	Saulteau First Nations	Aboriginal Engagement Matters	NGTL commits to provide capacity funding to conduct site visits to areas identified as potentially culturally significant along the ROW	Additional Written Evidence	A4X6I4	Complete	Pre-Construction	Indigenous Relations	NGTL and SFN executed a Letter of Agreement for funding to conduct the site visit in October 2015.
AR_15	Saulteau First Nations	Aboriginal Engagement Matters	NGTL commits to provide Saulteau First Nations with regular updates or special notifications with respect to construction activities.	Response to SFN 2.4 c)	A4Y1K9	Ongoing Complete	Construction	Indigenous Relations	NGTL provided SFN with regular updates to the construction schedule changes filed with the NEB on May 30, July 5, 20, August 4, and September 1, 2017.
AR_16	Saulteau First Nations	Aboriginal Engagement Matters	NGTL commits to follow NGTL's Heritage Resource Contingency Plan, Human Remains Discovery Contingency Plan and TLU Sites Discovery Contingency Plan (in addition to all additional applicable legislation) to ensure heritage sites and TLU sites are not disturbed during construction.	Response to SFN 2.4 d)	A4Y1K9	Ongoing Complete	Construction	Environmental Planning	<ul> <li>Contingency plans were employed as required during construction activities.</li> <li>Human remains and TLU sites were not identified during construction activities.</li> <li>As discussed in Construction Progress Report No. 9 (NEB Filing ID: A85750-1) a fossil was found during hydro vac operations. Procedures outlined in the EPP, including the Heritage Resource Contingency Plan, were implemented. Under the guidance of both the Ministry of Forests, Lands and Natural Resource Operations (MFLNRO) Heritage Branch and the Royal BC Museum (RBCM), work was authorized to proceed within this area with caution.</li> </ul>
AR_17	Blueberry River First Nations / All Aboriginal Communities	Aboriginal Engagement Matters	NGTL commits to implement enhancement measures described in Section 13.5 of the Application to maximize employment, education and training for Aboriginal communities	Reply Evidence	A4Z8S6	Complete	Pre-Construction	Indigenous Relations	NGTL has implemented the measures discussed in Section 13.5 of the Application.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
AR_18	Ft St John Métis Society, West Moberly First Nations, National Energy Board	Environmental Matters	NGTL will consider using Twin Sisters Nursery as a supplier of native seeds provided Twin Sisters Nursery have an inventory of the native seed mixes required by the Project.	Reply Evidence and Oral Hearing	A4Z8S6, A5C319	Ongoing	Pre-Construction through Post-Construction	Environmental Planning	NGTL has engaged Twin Sisters Nursery as a supplier of reclamation seed species that meet the requirements of the EPP and will continue to do so as required for reclamation.
AR_19	Saulteau First Nations	Environmental Matters	NGTL commits to implement the Wildlife Species of Concern Discovery Contingency Plan if a previously unidentified important wildlife habitat tree (associated with a species of concern) is encountered prior to construction.	Reply Evidence	A4Z8S6	Ongoing Complete	Pre-Construction Construction	Environmental Planning	The Wildlife Species of Concern Discovery Contingency Plan was implemented during construction. There were no trees encountered that were identified as important to wildlife species of concern.
AR_20	Saulteau First Nations	Environmental Matters	NGTL will include any wildlife trails or other locations appropriate for wildlife gaps, which were identified in TLU studies, in the Environmental Alignment Sheets and EPP prepared prior to construction.	Reply Evidence	A4Z8S6	N/A	Pre-Construction	Environmental Planning	No wildlife trails or other locations appropriate for wildlife gaps, were identified by TLU studies.  Therefore, this commitment is no longer applies.
AR_21	Saulteau First Nations	Environmental Matters	NGTL commits to provide an updated Project- specific Breeding Bird and Nest Management Plan (BBNMP) as part of the final EPP filed with the Board prior to construction.	Reply Evidence	A4Z8S6	Complete	Pre-Construction	Environmental Planning	The updated Project-specific BBNMP was filed with the NEB as part of the Final Environmental Protection Plan (EPP) and Final Environmental Alignment Sheets (EAS) in Q1 2017 (A81254).
AR_22	Saulteau First Nations	Aboriginal Engagement Matters	NGTL commits to consider additional information gathered through ongoing engagement for incorporation into Project planning, including the ESA and EPP, as appropriate.	Reply Evidence	A4Z8S6	Complete	Pre-Construction	Indigenous Relations	No additional concerns warranting changes to the ESA or EPP have been identified through ongoing engagement. NGTL confirms that all TLU investigations for the Project with interested Aboriginal groups are complete, with the exception of Prophet River First Nation (PRFN), as described in the April 19, 2017, Outstanding TLU Investigations Update filed with the NEB. NGTL has advised PRFN that PRFN's planned TLU study report submission date will post-date the planned start of construction.
									In the event a TLU site is identified during ongoing engagement and/or construction, the TLU Sites Discovery Contingency Plan will be implemented (Annex E of the EPP) to mitigate potential effects of the Project on these sites.
AR_23	West Moberly First Nations	Aboriginal Engagement Matters	NGTL commits to address concerns and establish appropriate mitigation measures if sensitive areas are identified in WMFN's TLU study.	Reply Evidence	A4Z8S6	Complete	Pre-Construction	Indigenous Relations	NGTL received WMFN's TLU Study Report on February 8, 2017. NGTL reviewed the study results and provided response to the community on March 7, 2017. The concerns identified in WMFN's report are addressed by mitigation measures previously outlined in the Project EPP.
AR_24	West Moberly First Nations	Environmental Matters	NGTL commits to review any future revisions to temporary access roads to confirm if there are any effects on riparian and aquatics environments.	Reply Evidence	A4Z8S6	Ongoing Complete	Pre-Construction through Construction	Environmental Planning	All revisions to temporary access roads were reviewed by Environmental Inspectors.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
AR_25	All Aboriginal Communities	Environmental Matters	NGTL commits to not disturb the potential bear den observed at KP 5.15 of the Tower Lake Section.	TK Supplemental Report	A4Y9W5	Complete	Pre-Construction	Environmental Planning	<ul> <li>Avoidance of the den was confirmed by ground survey.</li> <li>Avoidance of the den was included in the -Final EPP and final EAS were filed with the NEB in Q1 2017 (A81254).</li> </ul>
AR_26	Horse Lake First Nation	Environmental Matters	NGTL commits to implement the Breeding Bird and Nest Management Plan (Annex F of the EPP January 2017) in the event of clearing or construction activities within the primary nesting period of migratory birds	TK Supplemental Report	A4Y9W5	Complete	Construction	Environmental Planning	The primary nesting period of migratory birds ended on August 1.
AR_27	Horse Lake First Nation	Aboriginal Engagement Matters	NGTL committed to provide HLFN with the construction schedule and an opportunity to harvest the Diamond Willow Fungus identified within KP 26 to 26.5	TK Supplemental Report	A4Y9W5	Complete	Pre-Construction	Indigenous Relations	<ul> <li>NGTL provided HLFN with a construction schedule on September 15, 2016.</li> <li>HNFLHLFN harvested diamond willow fungus from the ROW in July 2016.</li> </ul>
AR_28	British Columbia Métis Federation	Aboriginal Engagement Matters	NGTL committed to provide capacity funding for Project engagement activities.	Application	A4T0Y1	Complete	Pre-Construction	Indigenous Relations	NGTL and BCMF executed a work plan letter of agreement for capacity funding Agreement in October 2014.
AR_29	National Energy Board	Aboriginal Engagement Matters	NGTL committed to implement NGTL's Aboriginal Construction Training Program for the Project.	Oral Hearing	A5C3I9	Ongoing	Pre-Construction through Post-Construction	Indigenous Relations	NGTL implemented the Aboriginal Construction Participation Plan (formerly known as the Aboriginal Construction Training Program) on the Tower Lake section of the Project from July to September 2017 and on the Groundbirch section of the Project from July to October 2017.  NGTL will conduct post construction site visits in alignment with ACPP one year after Project construction.
ENG_1	National Energy Board	Design Matters	The Project will be designed, constructed, and operated in accordance with the requirements of the Onshore Pipeline Regulations (OPR) and Canadian Standards Association (CSA) Z662-15. If there are any inconsistencies between the OPR and CSA Z662-15, the OPR will govern.	Application Section 1.4	A4T0Y1	Ongoing	Pre-Construction / Construction	Project Engineering	
ENG_2	National Energy Board	Design Matters	The Project will be designed, constructed and operated in accordance with the provisions of the OPR, and industry standards listed in Table 7 2	Application Section 7.2.1	A4T0Y1	Ongoing	Pre-Construction / Construction	Project Engineering	
ENG_3	National Energy Board	Design Matters	The Project will be designed, constructed and operated in accordance with TransCanada specifications listed in Table 7 3. All TransCanada specifications comply with the OPR and industry codes and standards.	Application Section 7.2.2	A4T0Y1	Ongoing	Pre-Construction / Construction	Project Engineering	
ENG_4	National Energy Board	Design Matters	TransCanada will provide technical oversight for pipeline engineering and technical activities, and will also ensure coordination with prime contractors and other third party engineering consultants to ensure that TransCanada's engineering specifications and project requirements are met.	Application Section 7.2.3	A4T0Y1	Ongoing Complete	Pre-Construction / Construction	Project Engineering	<ul> <li>Technical oversight provided from initial design conception through to construction. Design followed the TCPL 30/60/90/IFC design process.</li> <li>Engineering engaged throughout construction to find resolution to design related issues.</li> </ul>

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENG_5	National Energy Board	Design Matters	All purchased items and contracted services will be obtained from suppliers and contractors of assessed capabilities who have been prequalified in accordance with TransCanada's internal supplier management and prequalification procedures or have been prequalified by a prime contractor to TransCanada.	Application Section 7.2.3	A4T0Y1	Complete	Pre-Construction	Project Engineering	The primary construction contracts were awarded to two Prime Contractors on March 20, 2017. Other construction contracted services such as NDE, environmental support, survey, etc. have also been obtained. Each of these services followed TransCanada's supplier management and prequalification procedures.
ENG_6	National Energy Board	Construction Matters	During construction, each prime contractor will be responsible for ensuring the work performed is in accordance with contract documents, Project design, applicable standards, specifications and procedures, and the Project specific quality plan. TransCanada inspectors will monitor all construction activities to ensure compliance.	Application Section 7.2.3	A4T0Y1	Ongoing Complete	Construction	Pipeline Project Management	NGTL inspectors were hired for the duration of Project construction to monitor Prime Contractor activities and ensure Prime Contractor compliance to contract documents, Project design, applicable standards, specifications and procedures, and the Project specific quality plan.
ENG_7	National Energy Board	Engineering Matters	Design changes during construction will be managed in accordance with the appropriate change management procedures and in accordance with TransCanada's standard engineering practices.	Application Section 7.2.3	A4T0Y1	Ongoing Complete	Construction	Project Engineering	All design changes during construction followed the management of change process.
ENG_8	National Energy Board	Construction Matters	<ul> <li>The following depth of cover standards will be followed:</li> <li>Pipeline will maintain a minimum depth of cover of 0.9 m in forested areas and native grasslands</li> <li>Pipeline will have a minimum depth of cover of 1.2 m in agricultural lands</li> <li>Valve site locations will have a minimum depth of cover of 1.1 m</li> <li>Road crossings will have a minimum depth of cover of 1.5 m or as agreed to with the relevant statutory authority or third-party owner, whichever is greater</li> <li>Buried utility and foreign pipeline crossings, above or below the pipeline, will have a minimum clearance of 0.3 m or as agreed to with the third party owner, whichever is greater</li> <li>watercourse crossings with defined beds and banks will have a minimum depth of cover of 1.8 m; increased depth of cover might be required at locations where there is the potential for bed scour</li> </ul>	Application Section 7.4.2	A4T0Y1	Ongoing Complete	Construction	Pipeline Project Management	NGTL confirms the depth of cover standards were followed.
ENG_9	National Energy Board	Engineering Matters	The primary coating for the external surface of the below ground pipe will be fusion bonded epoxy (FBE). Field girth welds will be protected with a liquid applied coating.	Application Section 7.5.1	A4T0Y1	Complete	Pre-construction	Project Engineering	NGTL confirms that the primary coating for the external surface of the below ground pipe will be fusion bonded epoxy (FBE) and that field girth welds will be protected with a liquid applied coating.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENG_10	National Energy Board	Construction Matters	An additional mechanical protection system, such as sand padding or rock shield, will be used if large and/or angular backfill material is encountered.	Application Section 7.5.1	A4T0Y1	Ongoing Complete	Construction	Pipeline Project Management	NGTL confirms that additional mechanical protection was used where large and/or angular backfill material was encountered.
ENG_11	National Energy Board	Engineering Matters	Abrasion resistant coating will be used where pipe is installed using boring, HDD or other methods that could cause abrasion to the coating during installation.	Application Section 7.5.1	A4T0Y1	Ongoing Complete	Pre-construction / Construction	Project Engineering	NGTL confirms that abrasion resistant coating was used where pipe was installed using a trenchless method.
ENG_12	National Energy Board	Engineering Matters	CP test points will be installed, where required, along the pipeline and at road, foreign pipeline and utility crossings.	Application Section 7.5.2	A4T0Y1	Ongoing Complete	Pre-construction / Construction	Project Engineering	NGTL confirms the installation of CP test points, where required.
ENG_13	National Energy Board	Engineering Matters	NGTL will install launchers and receivers on the pipeline sections for the purpose of In-Line Inspection (ILI) during pipeline operation.	Application Section 7.5.3	A4T0Y1	Ongoing Complete	Pre-construction / Construction	Project Engineering	NGTL confirms launchers and receivers were installed on the Tower Lake Section and Groundbirch Mainline Loop.
ENG_14	National Energy Board	Engineering Matters	The Pressure Control and Overpressure Protection (OPP) design of the Project will comply with the requirements of CSA Z662-15,	Application Section 7.5.4	A4T0Y1	Ongoing Complete	Pre-construction	Meter Station Project Management	<ul> <li>Confirmation filed in the following LTO applications:</li> <li>Dawson Creek East Receipt Meter Station (A84881)</li> <li>Groundbirch East Receipt Meter Station (A85384)</li> <li>Tower Lake Receipt Meter Station (A85885)</li> <li>Dawson Creek North No.1 Receipt Meter Station (A86885)</li> <li>Dawson Creek North No.2 Receipt Meter Station (A88207)</li> </ul>
ENG_15	National Energy Board	Construction Matters	NGTL will award separate contracts for portions of the Project work outside the scope of the prime contractor construction contracts, for activities such as construction surveying, inspection and NDE.	Application Section 8.1.1	A4T0Y1	Complete	Construction	Pipeline Project Management	Separate contracts were awarded for survey, Project inspection and NDE.
ENG_16	National Energy Board	Construction Matters	Pipeline construction activities will progress in a manner that will avoid applicable wildlife timing restrictions, where feasible. Where wildlife timing restrictions cannot be avoided, NGTL will work with the appropriate agencies to develop appropriate mitigation.	Application Section 8.3	A4T0Y1	Ongoing Complete	Construction	Pipeline Project Management	NGTL confirms working with appropriate agencies to develop appropriate mitigations and those mitigations were carried out where applicable.
ENG_17	National Energy Board	Construction Matters	NGTL will develop a Safety Management Plan (SMP) that provides the prime contractor with a minimum level of awareness of potential construction hazards associated with the Project.	Application Section 8.6.1	A4T0Y1	Complete	Pre-Construction	Pipeline Project Management	All SSSPs werehave been filed with the NEB as of May 23, 2017.
ENG_18	National Energy Board	Engineering Matters	NGTL Will monitor any potential adverse effects throughout the life of the Project through regular aerial patrols, in addition to geo-hazard assessments, if required	Response to IR NEB 1.3	A4X6I6	Planned	Post-Construction	Operations	

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ENG_19	National Energy Board	Engineering Matters	Within six months after the Project goes into service, NGTL will run baseline ILI to inspect the overall integrity condition of the pipeline. NGTL will continue to monitor the actual pressure cycle spectrum through the SCADA system to ensure the Project is operating within the design condition. If the pressure cycle spectrum changes, NGTL will perform fatigue assessment and adjust the IMP as appropriate	Response to IR NEB 2.2 c)	A4YG37	Planned	Post-Construction	Operations	
ENG_20	National Energy Board	Engineering Matters	During operations NGTL will minimize the amount of right-of-way where vegetation is actively managed for maintenance and integrity purposes. NGTL also confirms that a 5m maximum operations and maintenance corridor setback distance from each side of the centerline will be applied in environmentally sensitive areas (wetlands, riparian areas, old growth forest habitats) provided it aligns with CSA requirements.	Response to IRs NEB 2.5 c) and NEB 3.2 b).	A4YG37, A4Z4C2	Planned	Post-Construction	Operations	
ENG_21	Canadian Association of Energy and Pipeline Landowners Association	Construction Matters	NGTL commits to meeting the land restoration standards established by applicable regulatory requirements, which it commits to contractually through its right-of-way agreement.	Reply Evidence Appendix 5-1, Section 1.4	A4Z8S6	Planned	Post-Construction	Post- Construction Environmental Monitoring	
ENG_22	Canadian Association of Energy and Pipeline Landowners Association	Construction Matters	NGTL will provide reasonable passage and land access for farming vehicles or agricultural equipment as necessary in connection with ordinary farming practices during construction, provided the landowner has requested access documented on the Project line list prior to construction or requested thought the NGTTL construction manager during construction.	Reply Evidence Appendix 5-1, Section 2.7	A4Z8S6	Ongoing Complete	Construction	Pipeline Project Management	NGTL confirms that reasonable passage and land access was provided during construction.
ENG_23	Canadian Association of Energy and Pipeline Landowners Association	Construction Matters	NGTL will install the pipeline at a depth of at least 1.2 meters from the top of the pipe to construction grade with the exception of forested and native grass lands where the depth of cover will be at least 0.9 meters, as per NGTL specification.	Reply Evidence Appendix 5-1, Section 2.8	A4Z8S6	Ongoing Complete	Construction	Pipeline Project Management	NGTL confirms that NGTL specification for depth of cover have been met.
ENG_24	West Moberly First Nations	Construction Matters	NGTL will use biodegradable hydraulic fluids in hydraulic equipment conducting instream work	Response to IR WMFN 6.6 b)	A4Y3G8	Ongoing N/A	Construction	Pipeline Project Management	No instream work was conducted. Therefore, this mitigation did not apply.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENG_25	West Moberly First Nations	Construction Matters	NGTL will not allow fuel, oil, or hazardous material storage within 100 m of a watercourse or waterbody except where secondary containment is provided; or conduct refuelling at least 100 m away from any watercourse or waterbody, when feasible.  Where equipment refuelling is required within 100 m of a watercourse, ensure that, the following:  all containers, hoses, nozzles are free of leaks all fuel nozzles are equipped with automatic	Response to IR WMFN 6.8 a)	A4Y3G8	Ongoing Complete	Construction	Environmental Planning	
			<ul> <li>all ruer nozzies are equipped with automatic shut-offs</li> <li>always have operators stationed at both ends of the hose during fuelling</li> </ul>						
ENG_26	National Energy Board	Engineering Matters	In addition to CSA Z662-15, various other industry codes and standards will be used in the design; construction and operation of the meter station portion of the Project (see Table 9-1).	Application Section 9.1.1	A4T0Y1	Ongoing Complete	Pre-Construction / Construction	Project Engineering Meter Station Project Management	
ENG_27	National Energy Board	Engineering Matters	NGTL relies on the upstream customer to provide pressure control and overpressure protection (OPP) at its facility. NGTL verifies that this OPP process is reviewed and assessed for compliance with CSA Z662-15, Section 4.18 and Section 10.9.5.	Application Section 9.2.5	A4T0Y1	Ongoing Complete	Pre-Construction / Construction	Meter Station Project Management	
ENG_28	National Energy Board	Engineering Matters	Pressure vessels will be designed and fabricated according to TransCanada specification TES-MATL-PV1. These vessels will be confirmed during detailed design and are anticipated to include separators.	Application Section 9.4.11	A4T0Y1	Complete	Pre-Construction	Meter Station Project Management	NGTL confirms that all pressure vessels have been designed and fabricated according to TransCanada specification TES-MATL-PV1.
ENG_29	National Energy Board	Construction Matters	All welding and NDE testing of welds will be done in accordance with the requirements of CSA Z662-15, the OPR, and the welding procedures and specifications in Table 9-2. NGTL will hire an independent third party for NDE on all welds required for the Project.	Application Section 9.4.11	A4T0Y1	Ongoing Complete	Construction	Pipeline Project Management Meter Station Project Management	
ENG_30	National Energy Board	Construction Matters	For all high-pressure gas piping designed to CSA Z662, NGTL will use 100% NDE coverage.	Application Section 9.4.12	A4T0Y1	Ongoing Complete	Construction	Pipeline Project Management Meter Station Project Management	

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENG_31	National Energy Board	Construction Matters	Pressure testing of the meter station facilities will meet the requirements of CSAZ662-15 and the OPR. Before hydrostatic testing begins NGTL will submit to the Board a table listing the field welds that are not expected to be pressure tested and provide justification for each weld not pressure tested, as well as a plot plan showing the location of each untested weld.	Application Section 9.4.13	A4T0Y1	Ongoing Complete	Construction	Meter Station Project Management	Dawson Creek List of untested field welds was filed on June 23 (A84565-1), remaining untested welds were filed on July 21 (A85090).
ENG_32	National Energy Board	Safety Matters	NGTL will prepare an emergency response plan that will be implemented in the event of an emergency during Project construction (see Section 8.5.1).	Application Section 9.4.15	A4T0Y1	Complete	Construction	Pipeline Project Management Meter Station Project Management	Emergency response plans have been developed and are available to all individuals that undergo orientation to ensure implementation of the plan in the event of an emergency during Project construction.
ENV_1	National Energy Board	Environmental Matters	NGTL accepts the findings of the ESA and will adhere to the recommendations and mitigation measures identified in the ESA and the EPP.	Application Section 14	A4T0Y1	Ongoing	Pre-Construction through Post-Construction	Environmental Planning	
ENV_2	National Energy Board	Environmental Matters	To ensure that mitigation measures are followed, NGTL will have qualified environmental inspectors on the Project and will develop an environmental orientation for Project personnel.	Application Section 14	A4T0Y1	Ongoing Complete	Pre-Construction and Construction	Environmental Planning	The Environmental orientation for Project personnel has been developed and provided to the Prime Contractors for implementation during site orientations. Qualified Environmental Inspectors have been engaged and are on-site.
ENV_3	National Energy Board	Environmental Matters	NGTL will implement a Project-specific post-construction monitoring program (PCMP) for the Project to: evaluate the recovery of areas disturbed during construction; identify environmental issues that might have arisen post-construction; identify and coordinate the implementation of any remedial measures that are warranted; and identify additional special measures to address any outstanding or new environmental issues. NGTL will implement the PCMP after the first, third and fifth complete growing seasons following Project commissioning on forested public lands and following the first two complete growing seasons on agricultural land. The PCMP will be initiated in Year 1 to identify any unresolved issues when construction is complete. In following years, NGTL will assess only unresolved issues identified in the previous year's Environmental Issues List plus newly identified concerns.	Application Section 14	A4T0Y1	Planned	Post-Construction	Environmental Planning	

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENV_4	National Energy Board	Environmental Matters	Additionally, areas of potential environmental concerns identified during construction, including areas of potential terrain instability (steep slopes) and areas sensitive to disturbance (e.g., wetlands and watercourses), will also be assessed in the PCMP and monitored during spring break up for at least two years following construction. The monitoring program will measure the Project's success in: implementing the mitigation measures committed to by the Project; re-establishing equivalent land capability and wetland function.	Application Section 14	A4T0Y1	Planned	Post-Construction	Environmental Planning	
ENV_5	National Energy Board	Environmental Matters	NGTL will develop an issues tracking list for use during construction and operations, to ensure outstanding issues are investigated, resolved and reported.	Application Section 14	A4T0Y1	Ongoing	Construction and Post-Construction	Environmental Planning	
ENV_6	National Energy Board	Environmental Matters	NGTL will continue to engage with provincial and federal agencies and will provide the Board with a status update in Q1 2016.	Application Section 14	A4T0Y1	Complete	Pre-Construction	Environmental Planning	Filed with the NEB in January 2016 as part of Additional Written Evidence (AWE, NEB Filing ID: A4X6I4).
ENV_7	National Energy Board	Environmental Matters	Supplemental reports will be provided to the Board in March 2016, along with updated Environmental Alignment Sheets (EAS) and a Breeding Bird and Nest Management Plan for the Project.	Additional Written Evidence	A4X6I4	Complete	Pre-Construction	Environmental Planning	Filed with the NEB in March 2016 as part of Supplemental Environmental Filings and Updated EAS (A76124).
ENV_8	National Energy Board	Aboriginal Engagement Matters	An update of the Project-Specific issues and concerns communicated to NGTL by potentially affected Aboriginal communities and organizations will be provided as part of the Supplemental Traditional Land and Resource Use Report NGTL plans to file in March 2016. The Supplemental Traditional Land and Resource Use Report will also include actions taken by NGTL to address the issues and concerns identified by Aboriginal communities and organizations during engagement activities with NGTL and through Traditional Land Use studies.	Response to NEB 1.17 b)	A4X6I6	Complete	Pre-Construction	Indigenous Relations	Filed with the NEB in March 2016 as part of Supplemental Environmental Filings and Updated EAS (A76124).
ENV_9	Saulteau First Nations	Environmental Matters	NGTL has committed to develop a Breeding Bird and Nest Management Plan for the Project, which will be submitted to the NEB in March 2016.	Response to SFN 1.8 a)	A4Y1K9	Complete	Pre-Construction	Environmental Planning	<ul> <li>Filed with the NEB in March 2016 as part of Supplemental Environmental Filings and Updated EAS (A76124)</li> <li>Final EPP and Final EAS were filed with the NEB in January 2017 (A81254)</li> </ul>
ENV_10	Saulteau First Nations	Environmental Matters	Descriptions and maps of the archaeological sites identified during the 2015 AIA will be presented in the Heritage Resources Supplemental Report that NGTL plans to file with the NEB in March 2016.	Response to SFN 2.2 d)	A4Y1K9	Complete	Pre-Construction	Environmental Planning	Filed with the NEB in March 2016 as part of Supplemental Environmental Filings and Updated Environmental Alignment Sheets (EAS: A76124).
ENV_11	Saulteau First Nations	Environmental Matters	The results of the 2015 AIA will be included in the Supplemental Heritage Resources Surveys Report scheduled to be filed with the Board in March 2016.	Response to SFN 2.3 a)	A4Y1K9	Complete	Pre-Construction	Environmental Planning	Filed with the NEB in March 2016 as part of Supplemental Environmental Filings and Updated Environmental Alignment Sheets (EAS: A76124).

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENV_12	Saulteau First Nations	Aboriginal Engagement Matters	NGTL is committed to provide Saulteau First Nations with regular updates or special notifications with respect to construction activities scheduled for the Project.	Response to SFN 2.4 c)	A4Y1K9	Ongoing Complete	Pre-Construction and Construction	Indigenous Relations	NGTL provided SFN with notification of the start of Section 58 Activities on April 18, 2017. NGTL will continue to update SFN with construction milestones. NGTL provided SFN with regular updates to the construction schedule changes filed with the NEB on May 30, July, 5, 20, August 4, and September 1, 2017.
ENV_13	Saulteau First Nations	Aboriginal Engagement Matters	NGTL is continuing to work with Aboriginal communities to identify any potential heritage resource sites or culturally sensitive sites prior to the initiation of construction. Should such a site be identified, NGTL will work with local Aboriginal communities to develop appropriate mitigation for that site.	Response to SFN 2.4 d)	A4Y1K9	Complete	Pre-Construction	Indigenous Relations	No additional concerns warranting changes to the ESA or EPP have been identified through ongoing engagement. NGTL confirms that all TLU investigations for the Project with interested Aboriginal groups are complete, with the exception of Prophet River First Nation (PRFN), as described in the April 19, 2017 Outstanding TLU Investigations Update filed with the NEB. NGTL has advised PRFN that PRFN's planned TLU study report submission date will post-date the planned start of construction.
									In the event a TLU site is identified during ongoing engagement and/or construction, the TLU Sites Discovery Contingency Plan will be implemented (Annex E of the EPP) to mitigate potential effects of the Project on these sites.
ENV_14	Saulteau First Nations	Environmental Matters	In order to further protect heritage sites, NGTL has committed to follow all appropriate legislation (including the procedures for the discovery of human remains outlined by the Archaeology Branch of B.C. MFLNRO), NGTL's Heritage Resource Contingency Plan, Human Remains Discovery Contingency Plan and the TLU Sites Discovery Contingency Plan, in order to ensure heritage sites and TLU Sites (including human remains) are not disturbed during construction.	Response to SFN 2.4 d)	A4Y1K9	Ongoing Complete	Construction	Environmental Planning	See AR 16.     All appropriate legislation and Project contingency plans were employed as required during construction activities.     Human remains and TLU sites were not identified during construction activities.
ENV_15	Saulteau First Nations	Environmental Matters	NGTL confirms that an environmental orientation is required for all construction activity inspection staff and contractor staff to ensure that all personnel working on the construction of the Project are informed of the environmental requirements and Project-specific sensitivities.	Response to SFN 2.4 e)	A4Y1K9	Ongoing Complete	Construction	Environmental Planning	
ENV_16	Saulteau First Nations	Environmental Matters	NGTL will adhere to the applicable federal and provincial laws regarding the discovery of human remains on the Project. In the unlikely event that archaeological burial sites or human remains are discovered during construction, NGTL will implement its Human Remains Discovery Contingency Plan process.	Response to SFN 2.4 f) through I)	A4Y1K9	Ongoing Complete	Construction	Environmental Planning	See AR 16 and ENV 14.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENV_17	National Energy Board	Environmental Matters	In areas of Old Growth Forest Bird Habitat where grading is not required, TransCanada will implement ditch and worksite stripping in an attempt to reduce the area required for soil storage.	Response to NEB 2.5	A4Y3G7	Ongoing Complete	Construction	Environmental Planning	
ENV_18	National Energy Board	Environmental Matters	During operations NGTL will minimize the amount of right-of-way where vegetation is actively managed for maintenance and integrity purposes. A minimum of 5 m on each side of the centreline will periodically be maintained to satisfy CSA Z662 line of sight requirements necessary to carry out maintenance and integrity programs, such as visual aerial pipeline patrols and leak detection. NGTL will not clear native species from the right-of-way that do not raise operational and integrity concerns. Within Crown lands the remainder of the construction footprint can be allowed to naturally regenerate.	Response to NEB 2.5	A4Y3G7	Planned	Post-Construction	Environmental Planning	
ENV_19	National Energy Board	Environmental Matters	A mitigation strategy, as per guidance in Supplementary Information for Area-based Analysis (ABA) (BC OGC 2015a), and watercourse crossing information and mitigation measures for the identified crossings classified as 'Enhanced Management' and 'Regulatory Review' will be submitted with the NEB Provincial Pipeline Authorization Application for the Project to the OGC prior to construction.	Response to NEB 2.6 c)	A4Y3G7	Complete	Pre-Construction	Environmental Planning	<ul> <li>Filed with the NEB Provincial Pipeline Authorization Application for the Project to the BC Oil and Gas Commission in Q3 2016.</li> <li>Also included in Final EPP filed with the NEB in January 2017 (A81254).</li> </ul>
ENV_20	National Energy Board	Environmental Matters	Wetland functional assessments were not completed for 11 of the 28 wetlands due to land access limitations or reroutes associated with Project updates. Wetland function assessment data for these 11 locations is planned to be collected in Q2/3 2016. Wetland function assessment data for all 28 wetlands will be included in the Environmental Alignment Sheets, which will be filed with the Board prior to construction.	Response to NEB 2.7 and NEB 3.12 b)	A4Y3G7, A4Z4C2	Complete	Pre-Construction	Environmental Planning	The Wetland functional assessments were provided to the Board as part of NGTL's responses to NEB IR No. 1 on the Condition Filings (A82631).
ENV_21	West Moberly First Nations	Aboriginal Engagement Matters	NGTL has worked and will continue to work with Aboriginal communities and organizations to share in the benefits and opportunities provided by the Project, through employment, contracting and the supply of services in the planning, construction and operational phases of the Project.	Response to WMFN 2.1 a)	A4Y3G8	OngoingComplete	Pre-Construction and Construction	Indigenous Relations	WMFN representatives attended the Project's Indigenous Contracting Summit in March 2017 to introduce Indigenous communities to the Project's Prime contractors and discuss potential employment and contracting opportunities.  NGTL also implemented a field liaison to identify and communicate additional opportunities and address community issues and concerns.  NGTL's field liaison met with WMFN in May and August 2017 to discuss potential employment and contracting opportunities.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENV_22	West Moberly First Nations	Aboriginal Engagement Matters	NGTL is committed to continuing to work with WMFN to negotiate a Community Agreement to address the community's long term interests.	Response to WMFN 2.1 b)	A4Y3G8	Ongoing	Pre-Construction through Post-Construction	Indigenous Relations	NGTL continues to meet regularly with WMFN to discuss WMFN's long term interests and provide updates.
ENV_23	West Moberly First Nations	Aboriginal Engagement Matters	Any site-specific location of TLU on private lands that are provided to NGTL prior to construction will be incorporated into Project planning, including the EPP and Environmental Alignment Sheets (EAS), as appropriate.	Response to WMFN 3.2 a)	A4Y3G8	Complete	Pre-Construction and Construction	Indigenous Relations	NGTL received WMFN's TLU Study Report on February 8, 2017. NGTL reviewed the study results and provided response to the community on March 7, 2017. The concerns identified in WMFN's report are addressed by mitigation measures previously outlined in the Project EPP.
ENV_24	West Moberly First Nations	Aboriginal Engagement Matters	Information shared during WMFN's TLU study and ongoing engagement will be considered for incorporation in Project planning, including the Final EPP and EAS, as appropriate.	Response to WMFN 3.3 c), d)	A4Y3G8	Complete	Pre-Construction and Construction	Indigenous Relations	NGTL received WMFN's TLU Study Report on February 8, 2017. NGTL reviewed the study results and provided response to the community on March 7, 2017. The concerns identified in WMFN's report are addressed by mitigation measures previously outlined in the Project EPP.
ENV_25	West Moberly First Nations	Environmental Matters	Temporary workspace will be included in the post-construction monitoring program.	Response to WMFN 5.2 b)	A4Y3G8	Planned	Post-Construction	Environmental Planning	
ENV_26	West Moberly First Nations	Environmental Matters	NGTL will remove noxious weeds found on the right-of-way when warranted, as per Sections 7.1 and 8.8 of the EPP (NEB Filing ID: A4T0Z3) [Updated EPP, NEB Filing ID: A4Y9W9].	Response to WMFN 5.2 e)	A4Y3G8	Ongoing	Construction and Post- Construction	Environmental Planning	
ENV_27	West Moberly First Nations	Environmental Matters	During construction topsoil piles will be monitored for weed growth. Corrective measures (e.g., spraying, mowing, hand pulling) will be implemented, when warranted. The general application of herbicides near rare plants, rare ecological communities, and water bodies will be restricted.	Response to WMFN 5.3 d)	A4Y3G8	Ongoing	Construction	Environmental Planning	
ENV_28	West Moberly First Nations	Environmental Matters	A water quality monitoring plan will be developed with input from an aquatics specialist for all trenchless crossings (e.g., HDD) and for trenched crossings with in-stream construction activities that require water quality monitoring as guided by the DFO Self-Assessment Process and Measures to Avoid Causing Harm to Fish and Fish Habitat.	Response to WMFN 6.5 d)	A4Y3G8	Complete	Pre-Construction	Environmental Planning	The Water Quality Monitoring and Fish Salvage Plan was completed on April 26, 2017.
ENV_29	National Energy Board	Aboriginal Engagement Matters	If sensitive areas are identified in WMFN's TLU study, NGTL will continue to work with WMFN to address their concerns and establish appropriate mitigation measures. Information gathered through previous and ongoing engagement, including WMFN's TLU study, is considered for incorporation and integration into Project planning, including the Environmental Protection Plan and Environmental Alignment Sheets, as appropriate.	Response to NEB 3.3 b)	A4Z4C2	Complete	Pre-Construction through Construction	Indigenous Relations	NGTL received WMFN's TLU Study Report on February 8, 2017. NGTL reviewed the study results and provided response to the community on March 7, 2017. The concerns identified in WMFN's report are addressed by mitigation measures previously outlined in the Project EPP.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENV_30	National Energy Board	Aboriginal Engagement Matters	NGTL will consider further input and address and/or resolve any issues identified by Aboriginal communities during construction and post-construction activities as described in NGTL's response to IR NEB 3.15 b) and c).	Response to NEB 3.3 b)	A4Z4C2	Ongoing	Pre-Construction through Post-Construction	Indigenous Relations	
ENV_31	National Energy Board	Environmental Matters	The Project will adopt TransCanada's Fugitive Emissions Management Program to manage fugitive emissions; the Program has received international recognition by industry groups and government and TransCanada has rigorously managed fugitive emissions from its Canadian pipeline system for over a decade.	Response to NEB 3.5 - NGTL Response to comment ECCC- 19	A4Z4C2	Planned	Post-Construction	Operations	
ENV_32	National Energy Board	Environmental Matters	Pre-construction soil testing on all but approximately 32 ha of the updated Project footprint has been completed. The remaining 32 ha will be assessed in Q2 2016 and results will be included within the Environmental Alignment Sheets (EAS) and Environmental Protection Plan (EPP) prepared and filed with the NEB before construction.	Response to NEB 3.9 b)	A4Z4C2	Complete	Pre-Construction	Environmental Planning	<ul> <li>Fieldwork was completed in completed Q3 2016.</li> <li>Results of the fieldwork were included in final EPP and Final EAS filed with the NEB in January 2017 (A81254).</li> </ul>
ENV_33	National Energy Board	Environmental Matters	NGTL will conduct pre-construction treatment and control of noxious weed infestations where site specific circumstances warrant. Circumstances considered include: weed species and regulatory classification; mode of spread; timing of construction; and, efficacy of standard agricultural pre-treatment methods.	Response to NEB 3.9 b)	A4Z4C2	Complete	Pre-Construction	Environmental Planning	Completed – all mechanical efforts.
ENV_34	National Energy Board	Environmental Matters	TransCanada representatives will contact counties/municipalities and landowners along the Project to identify where clubroot disease may pre-exist. TransCanada will maintain contact with local county agricultural field personnel for updates regarding the status of the disease in those counties crossed by our pipelines.	Response to NEB 3.9 c) Attachment NEB 3.9-1 (TransCanada Clubroot Disease Prevention Plan)	A4Z4C2	Ongoing	Pre-Construction through Post-Construction	Environmental Planning	No instances of clubroot have been identified to NGTL by County or Municipal representatives or by landowners. NGTL will continue to maintain contact with these groups throughout the duration of construction.
ENV_35	National Energy Board	Environmental Matters	When travelling on foot, footwear and any equipment (e.g., shovels) that are in contact with topsoil on infected fields will be cleaned before entering another quarter-section.	Response to NEB 3.9 c) Attachment NEB 3.9-1 (TransCanada Clubroot Disease Prevention Plan)	A4Z4C2	N/A	Construction	Environmental Planning	No clubroot infections have been identified on the lands crossed by the Project, therefore this commitment no longer applies.
ENV_36	National Energy Board	Environmental Matters	Any updates to mitigation or monitoring measures will be included in the EPP for the Project. This will be filed with the NEB prior to construction.	Response to NEB 3.9 e)	A4Z4C2	Complete	Pre-Construction and Construction	Environmental Planning	The final EPP filed with the Board on April 12, 2017, includes any updates to mitigation and monitoring plans (A82607).
ENV_37	National Energy Board	Environmental Matters	NGTL has included wetland functions that serve western toad as part of the wetland function assessment completed in 2014 and 2015 and this information for the remaining wetlands will be collected in June 2016.	Response to NEB 3.12 d)	A4Z4C2	Complete	Pre-Construction	Environmental Planning	Fieldwork was completed in completed Q2 2016.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
ENV_38	National Energy Board	Environmental Matters	Additional wildlife habitat information (e.g., potential amphibian breeding ponds, dens, salt licks) will be collected in June 2016 in the field for areas that were not assessed during the 2014 or 2015 field surveys because of lack of land access or changes to the Project footprint since those surveys. Wildlife habitat features in these areas will be recorded to confirm if any additional mitigation is required for construction. This information will be included in the EPP and EAS prepared prior to construction.	Response to NEB 3.14 a)	A4Z4C2	Complete	Pre-Construction	Environmental Planning	<ul> <li>Fieldwork was completed in completed Q2 2016.</li> <li>Results of the fieldwork were included in final EPP and Final EAS filed with the NEB in January 2017 (A81254).</li> </ul>
ENV_39	National Energy Board	Aboriginal Engagement Matters	In the post-construction period, engagement with interested communities will continue through the regional operations team, including NGTL's regional Aboriginal and Community Relations liaisons.	Response to NEB 3.15 b), c)	A4Z4C2	Planned	Post-Construction	Indigenous Relations	
ENV_40	National Energy Board	Aboriginal Engagement Matters	NGTL will provide potentially affected Aboriginal communities with notification of scheduled field programs.	Response to NEB 3.15 b), c)	A4Z4C2	Complete	Pre-Construction through Post-Construction	Indigenous Relations	<ul> <li>Potentially affected Aboriginal communities were provided notification of scheduled field programs in association with requests to participate in those programs.</li> <li>All field programs were completed by Q3 2016.</li> </ul>
ENV_41	National Energy Board	Aboriginal Engagement Matters	NGTL will consider issues raised by Aboriginal communities during the operations period, discuss additional engagement activities and implement mitigation measures, as warranted.	Response to NEB 3.15 b), c)	A4Z4C2	Ongoing	Pre-Construction through Post-Construction	Indigenous Relations	
ENV_42	National Energy Board	Land Matters	NGTL will continue to discuss CAEPLA/SPLA's issues and concerns that relate to the terms and conditions of the private agreements being negotiated between NGTL and CAEPLA/SPLA landowners, through the ongoing negotiation process it is conducting with CAEPLA/ SPLA.	Response to NEB 3.16 b)	A4Z4C2	Complete	Pre-Construction / Construction	Land	NGTL and CAEPLA/SPLA resolved all outstanding issues in May 2016. CAEPLA/SPLA subsequently withdrew from the regulatory process on May 27, 2016. NGTL continues to engage CAEPLA through the Joint Committee and will respond to issues or concerns as they arise.
ENV_43	National Energy Board	Environmental Matters	NGTL will submit to the NEB an updated Project- specific Breeding Bird and Nest Management Plan (BBNMP) as part of its commitment to file a final Environmental Protection Plan (EPP) and Environmental Alignment Sheets (EAS) prior to construction.	Response to NEB 4.2	A4Z7F4	Complete	Pre-Construction	Environmental Planning	Included as part of the Final EPP included in final EPP filed with the NEB in January 2017 (A81254).
ENV_44	Saulteau First Nations	Aboriginal Engagement Matters	Once the Final AIA report is complete and submitted to BC MFLNRO, copies of the Final AIA report will be available to Aboriginal communities upon request.	Response to SFN 2.2 d)	A4Y1K9	Complete	Pre-Construction	Indigenous Relations	Final AIA report was accepted by BC MFLNRO in Q1 2017 copies of the final AIA report are available to Aboriginal Communities from MFLNRO by request.
ENV_45	National Energy Board	Land Matters	NGTL will also respond to CAEPLA/SPLA's relevant Project-specific issues and concerns through NGTL's Reply Evidence planned to be filed with the Board on May 9, 2016.	Response to NEB 3.16 b)	A4Z4C2	Complete	Pre-Construction	Land Department	NGTL provided these responses in Reply Evidence filed with the NEB on May 9, 2016 (A4Z8S6).

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ENV_46	Alberta Environment and Parks	Environmental Matters	NGTL is evaluating the grade plan to determine if TWS requirements can be adjusted or reduced on Crown lands in Alberta.	Response to NEB 5.1, Attachment NEB 5.1-2	A5C0I3	Complete	Pre-Construction	Environmental Planning	NGTL filed this information with Alberta Environment and Parks in Q3 2016 as part of its Alberta Provincial Disposition Application.
ENV_47	National Energy Board	Aboriginal Engagement Matters	NGTL will provide potentially affected Aboriginal communities with notification and posting information when Post-Construction Monitoring (PCM) reports are filed with the NEB.	Response to NEB 3.15 b), c)	A4Z4C2	Planned	Post-Construction	Indigenous Relations	
LND_1	Landowner and Occupant Tower Lake Segment Tract 007.0	Land Matters	NGTL has made the following commitments for this tract: occupant will be sent equipment cleaning logs, including photos for all equipment	Response to NEB 5.1, Attachment NEB 5.1-1	A5C0I3	Ongoing	Construction	Land Department	
LND_2	Landowner and Occupant Tower Lake Segment Tract 008.0	Land Matters	NGTL has made the following commitments for this tract: occupant will be provided cleaning logs, including photos for all equipment	Response to NEB 5.1, Attachment NEB 5.1-1	A5C0I3	Ongoing	Construction	Land Department	
LND_3	Landowner Groundbirch Mainline Loop Tract 038.000	Land Matters	NGTL has made the following commitments for this tract: Landowners request noise reduction process for HDD operations and contractors to refrain from using bullhorns or loudspeakers	Response to NEB 5.1, Attachment NEB 5.1-1	A5C0I3	Ongoing	Construction	Land Department	
SEC_1	B.C. Northern Health Authority	Stakeholder Matters	NGTL will continue engaging Northern Health to identify potential enhancements to the Site Specific Safety Plan and Emergency Response Plan required by Prime Contractors and to the contingency management plans included in the EPP (Spill Contingency Plan, Fire Suppression Contingency Plan and the Traffic Control Management Plan).	Reply Evidence	A4Z8S6	Ongoing Complete	Pre-Construction / Construction	Community Relations	
SEC_2	B.C. Northern Health Authority	Stakeholder Matters	NGTL will continue engaging Northern Health, other local stakeholders and Aboriginal stakeholders, to identify potential enhancements to the proposed mitigation measures for potential socio-economic effects and work to resolve unanticipated Project related effects.	Reply Evidence	A4Z8S6	Ongoing Complete	Pre-Construction / Construction	Community Relations	
SEC_3	B.C. Northern Health Authority	Stakeholder Matters	NGTL will use multi-passenger vehicles to the extent practical between the construction site and the community or temporary accommodation, and will have strict guidelines in pace outlining safe driving practices, including strict enforcement of speed limits	Reply Evidence	A4Z8S6	Ongoing Complete	Pre-Construction / Construction	Pipeline Project Management	Construction is currently on-going and multi- passenger vehicles are being used. This item will be monitored and updated as complete upon the completion of construction. NGTL confirms multi-passenger vehicles were used during construction.
SEC_4	B.C. Northern Health Authority	Stakeholder Matters	NGTL will enforce TransCanada's health and safety policies and will ensure all contractors are fully compliant with NGTL's health and safety commitments.	Reply Evidence	A4Z8S6	Ongoing Complete	Pre-Construction / Construction	Pipeline Project Management	

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SEC_5	B.C. Northern Health Authority	Stakeholder Matters	NGTL is committed to implement the mitigation proposed in the ESA and will continue engaging stakeholders in the area such as the local municipal governments and business associations to identify and address unanticipated Project effects or issues from the use of local accommodations.	Reply Evidence	A4Z8S6	Ongoing Complete	Pre-Construction / Construction	Community Relations	
SEC_6	B.C. Northern Health Authority	Stakeholder Matters	NGTL will engage the appropriate authorities to develop response plans and site specific safety plans for sensitive areas along the pipeline route. NGTL is committed to continued engagement with Northern Health throughout the course of construction and will incorporate the contact information provided by Northern Health to the Emergency Contact List in the Project EPP.	Reply Evidence	A4Z8S6	Ongoing	Pre-Construction through Post-Construction	Community Relations	
SEC_7	B.C. Northern Health Authority	Stakeholder Matters	NGTL will continue to engage with local stakeholders, including Northern Health and Aboriginal communities, to identify unanticipated Project-specific socio-economic and health effects in communities, and will work with the appropriate authorities to address any adverse effects, should they arise.	Reply Evidence	A4Z8S6	Ongoing	Pre-Construction through Post-Construction	Community Relations	
REG_1	National Energy Board	Regulatory Conditions	Certificate Condition 1: Condition Compliance	Certificate GC-127	A79841	Ongoing	Pre-Construction through Post-Construction	Regulatory	
REG_2	National Energy Board	Regulatory Conditions	Certificate Condition 2: Design, Construction and Operation	Certificate GC-127	A79841	Ongoing	Pre-Construction through Post-Construction	Regulatory	
REG_3	National Energy Board	Regulatory Conditions	Certificate Condition 3: Implementation of Environmental Protection	Certificate GC-127	A79841	Ongoing	Pre-Construction through Post-Construction	Regulatory	
REG_4	National Energy Board	Regulatory Conditions	Certificate Condition 4: Right-of-Way Regeneration Plan in Old Growth Forest Bird Habitat	Certificate GC-127	A79841	Complete	Pre-Construction	Regulatory	Filed on March 31, 2017 (A82401).
REG_5	National Energy Board	Regulatory Conditions	Certificate Condition 5: Quality Management Plan	Certificate GC-127	A79841	Complete	Pre-Construction	Regulatory	Filed on March 31, 2017 (A82380).
REG_6	National Energy Board	Regulatory Conditions	Certificate Condition 6: Commitment Tracking Table	Certificate GC-127	A79841	Ongoing	Pre-Construction	Regulatory	Filed CTT for Condition 6 s.52 Facilities and Condition 7 s.58 Facilities:  1. March 3, 2017 (A81884).  2. April 3, 2017 (A82423).  3. May 1, 2017 (A83032).  4. May 31, 2017 (A84065).  5. June 28, 2017 (A84708).  6. August 1, 2017 (A85260).  7. August 31, 2017 (A85749).  8. September 29, 2017 (A86358).

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
REG_7	National Energy Board	Regulatory Conditions	Certificate Condition 7: Environmental Protection Plan (EPP)	Certificate GC-127	A79841	Approved	Pre-Construction	Regulatory	Filed on January 17, 2017 (A81354). Filed revised EPP (A82607) and revised EAS (A82610) on April 12, 2017. Board approval received April 20, 2017 (A82720).
REG_8	National Energy Board	Regulatory Conditions	Certificate Condition 8: Aboriginal Monitoring Plan	Certificate GC-127	A79841	Complete	Pre-Construction	Regulatory	Filed on January 12, 2017 (A81268).
REG_9	National Energy Board	Regulatory Conditions	Certificate Condition 9: Outstanding Traditional Land Use Investigations	Certificate GC-127	A79841	Approved	Pre-Construction	Regulatory	Filed on January 12, 2017 (A81269). Filed updated on outstanding TLU April 19, 2017 (A82689). Board approval received April 20, 2017 (A82719).
REG_10	National Energy Board	Regulatory Conditions	Certificate Condition 10: Construction Schedule	Certificate GC-127	A79841	Complete	Pre-Construction	Regulatory	Filed May 1, 2017 (A83051).
REG_11	National Energy Board	Regulatory Conditions	Certificate Condition 11: Heritage Resources	Certificate GC-127	A79841	Complete	Construction	Regulatory	Filed May 1, 2017 (A83021).
REG_12	National Energy Board	Regulatory Conditions	Certificate Condition 12: Breeding Bird Survey and Protection Plans	Certificate GC-127	A79841	Complete	Construction	Regulatory	Breeding Bird Protection Plan was filed on January 12, 2017 as part of the EPP (Certificate Condition 7; A81269). Subsequent survey results were filed in Construction Progress Reports (Certificate Condition 13) 1 through 8.  Breeding Bird nesting and restricted access periods ended on August 1.
REG_13	National Energy Board	Regulatory Conditions	Certificate Condition 13: Construction Progress Reports	Certificate GC-127	A79841	Ongoing	Construction	Regulatory	Filed for Condition 13 s.52 Facilities and Condition 10 s.58 Facilities:  1. May 1, 2017 (A83054).  2. May 16, 2017 (A83618).  3. May 31, 2017 (A84068).  4. June 16, 2017 (A84454).  5. June 29, 2017 (A84720.  6. July 17, 2017 (A84974).  7. August 1, 2017 (A85263).  8. August 16, 2017 (A85501).  9. August 31, 2017 (A85750).  10. September 15, 2017 (A86359).  11. September 29, 2017 (A86913).
REG_14	National Energy Board	Regulatory Conditions	Certificate Condition 14: Watercourse Crossing Inventory	Certificate GC-127	A79841	Complete	Construction	Regulatory	Filed on March 30, 2017 (A82345).
REG_15	National Energy Board	Regulatory Conditions	Certificate Condition 15: Contingency Watercourse Crossings	Certificate GC-127	A79841	N/A	Construction	Regulatory	Not anticipated to be required at this time.
REG_16	National Energy Board	Regulatory Conditions	Certificate Condition 16: Authorizations Under Paragraph 35(2)(b) of the Fisheries Act and Species at Risk Permits	Certificate GC-127	A79841	N/A	Construction	Regulatory	Not anticipated to be required at this time.

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
REG_17	National Energy Board	Regulatory Conditions	Certificate Condition 17: Pipeline Pressure Control and Overpressure Protection	Certificate GC-127	A79841	Ongoing	Construction	Regulatory	<ul> <li>Confirmation filed in the following LTO applications:</li> <li>Dawson Creek East Receipt Meter Station (A84881)</li> <li>Groundbirch East Receipt Meter Station (A85384)</li> <li>Tower Lake Receipt Meter Station (A85885)</li> <li>Dawson Creek North No.1 Receipt Meter Station (A86885).</li> <li>Dawson Creek North No.2 Receipt Meter Station (A87207).</li> </ul>
REG_18	National Energy Board	Regulatory Conditions	Certificate Condition 18: Horizontal Drilling Execution Plan	Certificate GC-127	A79841	Complete	Construction	Regulatory	Filed May 3, 2017, for Kiskatinaw River, Pouce Coupé River, Unnamed Creek and Highway 97/ Unnamed Creek (A83101).
REG_19	National Energy Board	Regulatory Conditions	Certificate Condition 19: Condition Compliance by the Accountable Officer	Certificate GC-127	A79841	Planned	Post-Construction	Regulatory	
REG_20	National Energy Board	Regulatory Conditions	Certificate Condition 20: Aboriginal Monitoring Report	Certificate GC-127	A79841	Ongoing	Post-Construction	Regulatory	
REG_21	National Energy Board	Regulatory Conditions	Certificate Condition 21: Employment, Contracting and Procurement Report	Certificate GC-127	A79841	Ongoing	Post-Construction	Regulatory	
REG_22	National Energy Board	Regulatory Conditions	Certificate Condition 22: Pipeline Geographic Information System (GIS) Data	Certificate GC-127	A79841	Planned	Post-Construction	Regulatory	
REG_23	National Energy Board	Regulatory Conditions	Certificate Condition 23: Post-Construction Environmental Monitoring Report	Certificate GC-127	A79841	Planned	Post-Construction	Regulatory	
REG_24	National Energy Board	Regulatory Conditions	Certificate Condition 24: Sunset Clause	Certificate GC-127	A79841	N/A	Post-Construction	Regulatory	Section 52 Construction has commenced, as a result this condition no longer applies.
REG_25	National Energy Board	Regulatory Conditions	Order Condition 1: Condition Compliance	Order XG-N081-025-2016	A79841	Ongoing	Pre-Construction through Post-Construction	Regulatory	
REG_26	National Energy Board	Regulatory Conditions	Order Condition 2: Design, Construction and Operation	Order XG-N081-025-2016	A79841	Ongoing	Pre-Construction through Post-Construction	Regulatory	
REG_27	National Energy Board	Regulatory Conditions	Order Condition 3: Implementation of Environmental Protection	Order XG-N081-025-2016	A79841	Ongoing	Pre-Construction through Post-Construction	Regulatory	
REG_28	National Energy Board	Regulatory Conditions	Order Condition 4: Aboriginal Monitoring Plan	Order XG-N081-025-2016	A79841	Complete	Pre-Construction	Regulatory	Filed on January 17, 2017 (A81268).
REG_29	National Energy Board	Regulatory Conditions	Order Condition 5: Outstanding Traditional Land Use Investigations	Order XG-N081-025-2016	A79841	Approved	Pre-Construction	Regulatory	Filed on January 12, 2017 (A81268). Filed updated on outstanding TLU April 19, 2017 (A82689). Board approval received April 20, 2017 (A82719).
REG_30	National Energy Board	Regulatory Conditions	Order Condition 6: Environmental Protection Plan (EPP)	Order XG-N081-025-2016	A79841	Approved	Pre-Construction	Regulatory	Filed on January 12, 2017 (A81269). Filed revised EPP (A82607) and revised EAS (A82610) on April 12, 2017. Board approval received April 20, 2017 (A82720).

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Commitment Number	Commitment to	Category	Description of Commitment	Source	Document References (Filing ID)	Status	Project Phase	NGTL Group Accountable	Comments
REG_31	National Energy Board	Regulatory Conditions	Order Condition 7: Commitment Tracking Table	Order XG-N081-025-2016	A79841	Ongoing	Pre-Construction	Regulatory	Filed CTT for Condition 6 s.52 Facilities and Condition 7 s.58 Facilities:  1. March 3, 2017 (A81884).  2. April 3, 2017 (A82423).  3. May 1, 2017 (A83032).  4. May 31, 2017 (A84065).  5. June 28, 2017 (A84708).  6. August 1, 2017 (A85260).  7. August 31, 2017 (A85749).  8. September 29, 2017 (A86358).
REG_32	National Energy Board	Regulatory Conditions	Order Condition 8: Construction Schedule	Order XG-N081-025-2016	A79841	Complete	Pre-Construction	Regulatory	Filed on March 3, 2017 (A81975).
REG_33	National Energy Board	Regulatory Conditions	Order Condition 9: Breeding Bird Survey and Protection Plans	Order XG-N081-025-2016	A79841	Ongoing Complete	Construction	Regulatory	Breeding Bird Protection Plan was filed on January 12, 2017 as part of the EPP (Order Condition 6; A81269). Subsequent survey results were filed in Construction Progress Reports 1 through 8 (Order Condition 10). Breeding Bird nesting and restricted access periods ended on August 1.
REG_34	National Energy Board	Regulatory Conditions	Order Condition 10: Construction Progress Reports	Order XG-N081-025-2016	A79841	Ongoing	Construction	Regulatory	Filed for Condition 13 s.52 Facilities and Condition 10 s.58 Facilities:  1. May 1, 2017 (A83054).  2. May 16, 2017 (A83618).  3. May 31, 2017 (A84068).  4. June 16, 2017 (A84454).  5. June 29, 2017 (A84720.  6 July 17, 2017 (A84974).  7. August 1, 2017 (A85263).  8. August 16, 2017 (A85501).  9. August 31, 2017 (A85750).  10. September 15, 2017 (A86043).  11. September 29, 2017 (A86913).
REG_35	National Energy Board	Regulatory Conditions	Order Condition 11: Condition Compliance by the Accountable Officer	Order XG-N081-025-2016	A79841	Planned	Post-Construction	Regulatory	
REG_36	National Energy Board	Regulatory Conditions	Order Condition 12: Sunset Clause	Order XG-N081-025-2016	A79841	N/A	Post-Construction	Regulatory	Section 58 activities have commenced, as a result this condition no longer applies.

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