

Attachment 1: Responses to Summary of Issues

Subject	ID	Summary of Issues	Gazoduq Responses
Accidents and Malfunctions	Q-1	Importance of using complete, unbiased factual data and information about natural gas and its exploitation and uses, including past accident history, potential hazards and risks.	In Section 3.1 of this Detailed Project Description, Gazoduq explains that its information sharing and consultation process was designed, among other things, to achieve objectives that align with its values and approach. These objectives include providing factual, clear information on the Project to facilitate informed stakeholder participation as well as to establish and provide various channels of communication that make information readily available to stakeholders and facilitate their participation in its information and consultation process. Gazoduq remains committed to these objectives.
Accidents and Malfunctions	Q-2	Details about the potential for accidents and malfunctions throughout the preferred planning area, including malicious acts, risks and hazards during all phases of the project (construction, pipeline operation and marine transportation of natural gas). Consideration of existing nearby infrastructure, such as Bagotville airport, significant water bodies for the population and the increased risk of accidents and malfunctions as the pipe ages.	<p>The potential for accidents and malfunctions will be assessed in the Impact Statement for the Project. This assessment will include the items listed in this issue except for marine transportation of natural gas, which is not within the scope of the applied-for Project.</p> <p>Risks and hazards during construction and their associated mitigation measures will be documented in the Impact Statement. Standards such as CSA Z246.1-17 will be used to develop a security management system for Gazoduq installations.</p> <p>Concerns about the increased risk of accidents and malfunctions due to the ageing of the pipe shall be mitigated with an effective Integrity Management Program developed according to Annex N of CSA Z662-19 and the NEB/CER Onshore Pipeline Regulations.</p>
Accidents and Malfunctions	Q-3	Details on the methane leak detection and mitigation methods that will be used and compliance with reporting procedures required by the government.	<p>Gazoduq will implement a leak detection methodology using multiple systems and equipment on the natural gas transmission line, in line with best practices and recognized industry standards. The purpose will be to rapidly identify/isolate a leak and to take appropriate emergency response actions. Both real time and non-real time techniques will be used to detect leakage (e.g., gas detector surveys, aerial surveys, vegetation surveys, gas volume monitoring analyses, bar hole surveys, surface detection surveys, mathematical modelling or any other method that Gazoduq determines to be effective). Measures to mitigate the potential for leaks will be provided in the Environmental Protection Plans appended to the Impact Statement.</p> <p>As per regulations, all leaks through the pipe body or welded connection and any leak greater than 0.1 Kg / sec at appurtenances will be reported. In the event of a leak, Gazoduq will be subject to the CER's incident management and reporting system. Gazoduq will also comply with all applicable reporting procedures required by the government.</p>
Accidents and Malfunctions	Q-4	Effects of accidents and malfunctions (gas leak, pipe failure, explosion, forest fires, etc.) on the health and safety of the public and Indigenous peoples; the economic health of affected areas; and components of the environment, including air, water, soil, wetlands, land and aquatic wildlife.	Natural gas is lighter than air and not water soluble. In the unlikely event of a leak, it would rise in the atmosphere. Thus, it does not represent a risk for water, wetlands and soil. Gazoduq will address the effects of accidents and malfunctions in the Impact Statement.

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Accidents and Malfunctions	Q-5	Details on the contingency plan that will detail the technology, methods and measures put in place (e.g., monitoring during operation) to ensure the ecological integrity of wildlife and the safety of citizens and members of Indigenous communities involved in land-based activities. Clarification of measures that will allow an effective emergency response (e.g., frequency of response, time to respond, authorities involved and synergy with public safety).	<p>As described in Sections H.3.1 and H.3.3 of this Detailed Project Description, Gazoduq will develop and implement emergency preparedness, response and management plans for the Project. These plans will ensure that Gazoduq has sufficient response capabilities and resources in place to address potential emergencies in construction and operation, including the unplanned and uncontrolled release of natural gas.</p> <p>An overarching emergency response plan (ERP) is currently being developed for the construction phase. It will be included, as a preliminary plan, in the Impact Statement for the Project. Prior to construction, site-specific ERPs will be developed to cover potential worksite emergencies during construction.</p> <p>In addition, an emergency management plan (EMP) will be developed for the operations phase. The EMP will be posted on the Gazoduq website and will be distributed to applicable emergency response agencies before the Project is put into commercial service.</p> <p>In developing its ERPs and the EMP, Gazoduq will consult with emergency response agencies, including local, provincial and federal agencies, and potentially affected Indigenous groups. This will help ensure that appropriate communications and cooperation protocols are in place, and that Gazoduq’s ERPs and EMP are aligned with the plans of affected emergency response agencies.</p>
Accidents and Malfunctions	Q-6	Details on emergency evacuation procedures and means to communicate with and notify the population, users, agricultural and forestry producers and Indigenous communities involved in activities on the territory in the event of an emergency, such as the dumping of waste and hazardous materials.	<p>Gazoduq has engaged potentially affected landowners, Indigenous groups and stakeholders, and will continue to do so throughout the duration of the Project. Gazoduq will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects.</p> <p>Gazoduq will engage in an ongoing education program for first responders, local authorities and Indigenous groups about its emergency response procedures.</p> <p>Emergency evacuation procedures and the means of communication and public notification plans, and public reporting, will be documented in the Impact Statement.</p>
Accidents and Malfunctions	Q-7	Details on financial responsibility, including estimated costs, and standards for clean-up in the event of accidental spills, during all phases of the project. Clarity on anticipated soil and water decontamination plans.	<p>In accordance with the Canadian Energy Regulator Act, Gazoduq will maintain appropriate financial resources to ensure that it can financially sustain the management of all potential risks and liabilities associated with a significant incident involving an unplanned or uncontrolled release of natural gas from the transmission system. Before the Project is placed into service, Gazoduq will demonstrate to the Agency and CER that it has sufficient financial resources to meet these requirements. In the meantime, an accidental spill response plan describing specific measures and instructions in the event of an unplanned or uncontrolled release will be included in the Project’s Environmental Protection Plans.</p>

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Accidents and Malfunctions	Q-8	Clarity on the ability of the existing pipeline system, located between Alberta and Ontario, to support the addition of a significant amount of gas from Western Canada without high risk of leaks or spills. Details on current system capacity in comparison with the required capacity for the planned liquefaction plant in Saguenay.	The existing system belongs to TC Energy. TC Energy is an independent third party and as a result, TC Energy is better positioned to answer these questions. Before the Project is put into service, Gazoduq and TC Energy will negotiate a tie-in agreement that will, among other things, govern various operational matters between the two systems, including their respective natural gas delivery and receipt obligations.
Country Foods	Q-9	Effects of contaminants released into the environment on country food (air, water, soil or plants).	Potential effects of contaminants released into the environment (i.e., air, water, soils, or plants) on country foods will be discussed in the Impact Statement.
Biodiversity	Q-10	Details factoring in all environmental components from the perspective of biodiversity protection and ecosystem maintenance.	Potential Project effects on environmental components, from a biodiversity protection and ecosystem maintenance perspective, will be addressed in the Impact Statement.
Biodiversity	Q-11	Effects on biodiversity, plant species, and wildlife and terrestrial ecosystems caused by, among other things, fragmentation, habitat loss and destruction; introduction of invasive species; avoidance and movement of wildlife; increased wildlife predation along the proposed project route; and potential accidents and malfunctions.	Potential Project effects on biodiversity, plant species, wildlife and terrestrial ecosystems, as well as the effects of potential accidents and malfunctions, will be addressed in the Impact Statement.
Biodiversity	Q-12	Effects of increased shipping, pollution and potential accidents and malfunctions caused by this project, among other things, on the shoreline flora and marine ecosystem of the Saguenay-St. Laurent Marine Park; the estuary upstream of the fjord; and on the current willingness and efforts to protect them.	The Project does not take place in a marine environment and therefore does not encroach on any shoreline flora or marine ecosystem. Rather, the Project extends from a tie-in to the TC Energy mainline near Ramore, Ontario to an onshore interconnection with GNLQ's Énergie Saguenay project.

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Biodiversity	Q-13	Clarity on the criteria used to define what constitutes a sensitive area, and clarity on which sensitive areas will be avoided and which ones will not.	<p>As indicated in Sections 13 and 14 of this Detailed Project Description, Gazoduq's exhaustive and iterative route selection process, including an extensive public information and consultation process to document the territory and receive the communities' input, has succeeded in avoiding a vast majority of potentially sensitive areas in the Study Corridor that was used as a basis for selecting a Preferred Planning Area.</p> <p>For this purpose, Gazoduq defined potentially sensitive areas as including: (a) lakes; (b) parks; (c) designated or proposed protected areas; (d) known municipal drinking water supply intake protection areas; (e) high ecological value forest reserves; (f) forests being used for experimental, research and teaching purposes; (g) wetlands of interest; (h) producing mines and known mining projects; (i) and areas posing more significant geotechnical constraints. The Impact Statement will identify and map any potentially sensitive areas that could not be avoided by the preferred route.</p>
Biodiversity	Q-14	Effects of compressor stations on ecosystems and species in the vicinity of these facilities.	The potential effects of the Project, including the proposed compressor stations, will be addressed in the Impact Statement.
Climate Change and Greenhouse Gas (GHG) Emissions	Q-15	Clarity on total methane emissions from natural gas extraction, transport and end use, and the impact of these emissions combined with climate change.	Gazoduq has commissioned a third-party study to assess GHG emissions for the Project, including information on methane emissions. The results of the study will be presented in the Impact Statement.
Climate Change and Greenhouse Gas (GHG) Emissions	Q-16	Project contribution to the effort to fight climate change at the provincial, national and international levels. Ability of the governments of Canada and Quebec to meet their environmental obligations and climate change commitments.	As indicated in Section 23 of this Detailed Project Description, Gazoduq aims to reduce GHG emissions through effective design. For example, Gazoduq continues to evaluate the feasibility of using electric power drive alternatives for turbines in its Québec compressor stations. In operations, the use of gas-powered turbines would be the main source of GHG emissions. Additional information on these and other measures will be provided in the Impact Statement.

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Climate Change and Greenhouse Gas (GHG) Emissions	Q-17	Quantifying and analyzing the project’s greenhouse gas emissions and their effects over the entire project life cycle, from the natural gas extraction phase to gas distribution and final consumption phase, including emissions at hydraulic fracturing sites that continue several years after cessation of activities. Include in this calculation fugitive and exhaust emissions (normal and accidental), specify the anticipated rate of fugitive leakage (and its estimation method) and consider scenarios where compressor station turbines are powered by natural gas or electricity.	As stated in Section 23 of this Detailed Project Description (Greenhouse Gas Emissions), Gazoduq aims to reduce GHG emissions through effective design. A GHG quantification study is currently underway and will be included in the Impact Statement. It will take into account natural gas and/or electric powered compressor stations.
Climate Change and Greenhouse Gas (GHG) Emissions	Q-18	Details on the amount of methane released annually during purges at compressor stations and the number of purges required.	Details on the amount of methane released annually during purges at the compressor stations and the number of purges required will be provided in the Impact Statement for both the commissioning stage and the operations phase of the Project.
Climate Change and Greenhouse Gas (GHG) Emissions	Q-19	Documented effects of carbon capture loss due to the expected deforestation by the project.	Carbon sequestration loss/change in land use (deforestation) will be considered in the GHG quantification study that will be presented in the Impact Statement.
Climate Change and Greenhouse Gas (GHG) Emissions	Q-20	Details of the proponent’s plan to align with the climate change commitments of the governments of Canada and Quebec on the mitigation measures that will be implemented to limit greenhouse gas emissions.	Gazoduq will provide additional information in the Impact Statement, supporting its position that the Project is designed to be compatible with provincial, Canadian, and international energy and climate policies. The Project is anticipated to facilitate an energy transition using natural gas, away from higher emitting sources of energy (e.g., coal, fuel oil, and diesel) currently used in international markets and locally in northern Ontario and Québec. This transition is expected to help support the fight against world-wide climate change by reducing global GHG emissions in international markets. It could also respond, in some cases, to specific needs in Québec and northern Ontario, also by offering potential users a less polluting energy source and thus supporting the fight against climate change.

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Climate Change and Greenhouse Gas (GHG) Emissions	Q-21	Evaluation of a greenhouse gas emissions scenario that would simulate the replacement of cleaner energy sources (hydroelectricity and other renewable energies) by natural gas in international markets.	As indicated in Section 7 of this Detailed Project Description the Project is designed to be compatible with provincial, Canadian, and international energy and climate policies. The Project is anticipated to facilitate an energy transition using natural gas, away from higher emitting sources of energy (e.g., coal, fuel oil, and diesel) currently used in international markets and locally in northern Ontario and Québec. This transition is expected to help support the fight against world-wide climate change by reducing global GHG emissions in international markets. It could also respond, in some cases, to specific needs in Québec and northern Ontario, also by offering potential users a less polluting energy source and thus supporting the fight against climate change. In the Impact Statement, Gazoduq will describe how the Project is likely to result in global emissions reductions.
Climate Change and Greenhouse Gas (GHG) Emissions	Q-22	Residual effects of climate change.	Residual effects of the Project will be assessed in the Impact Statement, including climate change and GHG emissions.
Socio-economic Conditions	Q-23	Importance of social acceptability and details regarding the criteria that will be factored in by the proponent to determine whether the project is socially acceptable.	Gazoduq considers social acceptability to be a top priority, along with public safety, environmental stewardship, and the development of long-lasting and constructive relationships with Indigenous groups and local communities. To achieve these priorities, Gazoduq commits to completing the Project diligently and transparently, and to providing fact-based and timely communications on the Project. A robust and constructive information and consultation process is underway, potential benefits are being explored and maximized where possible, and Gazoduq will strive to avoid, mitigate, or otherwise manage potentially adverse effects. This approach, as well as the mitigation and enhancement measures being adopted and developed for the Project, will be documented in the Impact Statement.
Socio-economic Conditions	Q-24	Clarity on real economic benefits at the community, provincial and national levels.	Gazoduq has commissioned a third-party consultant to conduct a socio-economic of the Project. This study will include an estimate of the Project's economic benefits. It will be appended to the Impact Statement.
Socio-economic Conditions	Q-25	Clarity on the possibility of natural gas distribution contracts with local companies in northern Ontario and Quebec communities. Details on the identity of these local companies and where they would be connected to the pipeline.	As indicated in Section 7 of the Detailed Project Description, Gazoduq has launched a non-binding open season to confirm interest, and to solicit additional interest, in shipping natural gas through the Project. The results of the open season, including any contracting by local distribution companies, are expected to be outlined in the Impact Statement.

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Socio-economic Conditions	Q-26	Impacts on the workforce in Indigenous and non-Indigenous communities, by documenting indicators that ensure the sustainability of local businesses and regional workforce (number of direct and indirect jobs created; number of jobs reserved for residents; capacity of the existing local workforce; quality of jobs related to working conditions; wages and duration of employment; and socio-demographic characteristics of the labour market).	Gazoduq has commissioned a third-party consultant to conduct a socio-economic study of the Project. This study will assess potential Project-related effects on local businesses and the regional workforce. It will be appended to the Impact Statement.
Socio-economic Conditions	Q-27	Impacts on local and regional economies, including the home valuation near the route, local SMEs in the context of labour shortage and future activities of forestry companies, including the construction of forest roads across the existing pipeline.	Gazoduq has commissioned a third-party consultant to conduct a socio-economic study of the Project. This study will include an estimate of the Project's economic benefits from a local and regional perspective. It will be appended to the Impact Statement.
Socio-economic Conditions	Q-28	Effects on the economic contribution of tourism and ecotourism to small communities and local tourism and recreation businesses located along the proposed route that are dependant on the integrity of the landscape and its ecosystem.	Gazoduq has commissioned a third-party consultant to conduct a socio-economic study of the Project. This study will assess potential Project-related effects on tourism and ecotourism in the Project area. It will be appended to the Impact Statement.
Socio-economic Conditions	Q-29	Questions on the possibility of impact-benefit agreements with communities along the route.	<p>Gazoduq considers social acceptability, public safety, environmental stewardship, and the development of long-lasting and constructive relationships with Indigenous groups and local communities to be top priorities. To achieve these priorities, Gazoduq commits to completing the Project diligently and transparently, and to providing fact-based and timely communications on the Project.</p> <p>A robust and constructive information and consultation process is underway, potential benefits are being explored and maximized where possible, and Gazoduq will strive to avoid, mitigate, or otherwise manage potentially adverse effects. This approach, as well as the mitigation and enhancement measures being adopted and developed for the Project, will be documented in the Impact Statement. Impact and benefit agreements are one of the means by which the Project may provide Indigenous groups potentially affected with benefits.</p>

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Socio-economic Conditions	Q-30	Involvement and cooperation with current and future private lot owners and local businesses located along the proposed project route, whose interests and assets would be affected by the project. Discussion on the financial compensation that will be allocated to private lot owners and forestry companies, including the amount and duration.	<p>As part of its information sharing and consultation program, Gazoduq has initiated early and ongoing engagement with stakeholders whose interests and assets could be affected, including lot owners, forestry companies and local businesses. This dialogue will continue as the preferred route is confirmed and land rights are acquired.</p> <p>Financial compensation has not yet been established. Any compensation will take into consideration land values and effects of the presence of the underground transmission line on the land. Regarding the duration, Gazoduq is considering agreements based on perpetuity. Samples of the land acquisition agreements will be also be provided in the Impact Statement, in compliance with the CER Act (Part 6, Lands) although individually negotiated agreements may include additional content, including final compensation.</p>
Socio-economic Conditions	Q-31	Clarity regarding contracts or formal commitments between the proponent and non-Indigenous local communities resulting from the promised annual \$36 million and details on their administration (involvement of local communities, payment terms, administrative reports, etc.).	In early fall 2019, Gazoduq made an initial announcement regarding economic benefits related to the Project, in the order of \$36 million per year in Québec and Ontario. The announcement triggered a 60-day consultation period on this contribution (the Community Fund). Feedback from this consultation and continuing dialogue will be provided in the Impact Statement, and will include, to the extent applicable, formal commitment documentation. Refer to Section 3.5 of this Detailed Project Description for additional information.
Socio-economic Conditions	Q-32	Effects of the construction and presence of the pipeline on the value and use of agricultural and forest land, including constraints related to easements and land opening in wooded areas, liability insurance, loss of productive land and addition of constraints to agricultural work (e.g., limited access to fields during certain periods). Clarifications on the proponent's financial contribution for the use, maintenance and rehabilitation of forest roads.	<p>Mitigation measures described in the Impact Statement will reduce the effects of the natural gas transmission line's presence on activities carried out in agricultural and forestry environments. To this end, Gazoduq has initiated discussions with the Union des producteurs agricoles (UPA) and the forestry industry to develop a set of mitigation measures to be implemented for constraints related to easements and the opening of the territory in wooded areas, the temporary loss of cultivated areas in production and limited access to fields during construction.</p> <p>Gazoduq has already begun discussions with forestry companies to establish the measures to be taken, both financial and material, regarding the maintenance and use of forest roads within the context of a consultative working table. Those will allow Gazoduq to address specific questions and gather additional information/perspectives, which will be taken into consideration in the development of the Impact Statement.</p>
Socio-economic Conditions	Q-33	Effects on wild blueberry fields, their production potential and the development of new plots in the presence of the pipeline.	After construction of the natural gas transmission line, the development of new blueberry fields, their production potential and the development of new agricultural plots will not be limited by the new infrastructure. Plots should regain similar soil production potential in the following growing season.

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Socio-economic Conditions	Q-34	Effects on Énergir's ongoing efforts to serve the distribution network in the Saguenay industrial port area.	<p>The Project is designed to transport approximately 51 million cubic meters (1.8 billion cubic feet) of natural gas per day on an open access basis. While most of this capacity is required to supply Énergie Saguenay with a long-term supply of natural gas, there will be capacity available to provide natural gas transportation services to local distribution companies in northern Ontario and Québec.</p> <p>While Énergir is in the best position to answer what effects, if any, the Project will have on its ongoing efforts to serve the distribution network in the Saguenay industrial port, Gazoduq will have the potential to provide natural gas services to Énergir in the region should Énergir elect to do so.</p>
Socio-economic Conditions	Q-35	Impacts of the project on the Canadian energy economic context and its contribution to the energy transition given the availability of renewable energy sources in northern Quebec and Ontario.	Gazoduq will address the potential impacts of the Project and its contribution to energy transition in the Impact Statement. As Gazoduq states in Section 7 of this Detailed Project Description, the Project is designed to be compatible with provincial, Canadian, and international energy and climate policies, as it is anticipated to facilitate an energy transition using natural gas, away from higher emitting sources of energy (e.g., coal, fuel oil, and diesel) currently used in international markets and locally in northern Ontario and Québec. This transition is expected to help support the fight against world-wide climate change by reducing global GHG emissions in international markets. It could also respond, in some cases, to specific needs in Québec and northern Ontario, by offering potential users a less polluting energy source and thus supporting the fight against climate change.
Socio-economic Conditions	Q-36	Details of the project's impact on the production, supply and price of natural gas at the domestic (including western Canadian) and international levels, as well as on other energy sources.	A third-party consultant is preparing a report on the future gas supply impacts of the Project. This report will be provided with the Impact Statement.
Socio-economic Conditions	Q-37	Clarity on the existence of medium and long-term export contracts with international market customers. Feasibility for the proponent to establish contracts which stipulate that natural gas will be used to replace more polluting energy sources.	<p>This is beyond the scope of the applied-for Project. Gazoduq will not be a seller of natural gas. It will provide only natural gas transportation services. It will not be a party to any natural gas sales contracts, either domestically or internationally. Gazoduq is an open access transmission line and cannot dictate how the natural gas that it transports will be utilized.</p> <p>The purpose of the Gazoduq Project is to build and operate a natural gas transmission line, from an interconnection point with the TC Energy mainline near Ramore, Ontario, to supply the future gas liquefaction, storage and export facility in Saguenay, Québec (Énergie Saguenay). Subsequent liquefaction of the natural gas and sale or export of same falls outside the scope of the Gazoduq Project.</p>

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Socio-economic Conditions	Q-38	Conduct a cost-benefit analysis of natural gas extraction and production that will take into account the reality of small communities, the entire affected population and the impacts on TC Energy's main network.	<p>The Impact Statement will include third party analysis of Western Canadian gas supply availability and its applicability to the Project, an associated GHG evaluation, and a Project-specific social economic evaluation, including applicable regional assessments.</p> <p>Gazoduq will only be a transporter of natural gas, not a purchaser. Gazoduq's customers will purchase the natural gas that Gazoduq transports. Accordingly, Gazoduq does not and will not have specific information enabling it to comment on community effects associated with natural gas extracted and produced for transport by the Project.</p>
Socio-economic Conditions	Q-39	Clarification on the economic incentives and any form of economic support provided by governments to the proponent.	No financial support request has been submitted by Gazoduq to any government authority.
Socio-economic Conditions	Q-40	Details on the actual tax benefits, location of investors and their use of tax havens, and references and sources used to estimate the advance payments of taxes and royalties that will be paid in Canada, Quebec and Ontario.	Gazoduq will provide an estimate of effects on benefits from tax levies, royalties, revenue sharing and other means during construction and operation. This information will be part of the Impact Statement. Project financing information will also be provided in the Impact Statement.
Socio-economic Conditions	Q-41	Details concerning the use of forest roads and financial participation in their maintenance and rehabilitation after construction work.	<p>Details concerning the use of forest roads, including any conditions with respect to maintenance and restoration, will be determined in consultation with the provinces for roads on public land and with landowners for roads on private land. This information will not be available until the detailed design of the Project, well after the Impact Statement is submitted.</p> <p>Consultative working tables are currently being conducted in order to assess these specific questions with various representatives of the industry and the government. Gazoduq expects to receive feedback that could then be taken into account in the development of its Impact Statement.</p>
Socio-economic Conditions	Q-42	Impacts of the project on the regional identity of affected small communities. Concerns about the impact of the project on the country's national unity.	The Impact Statement will include a Project-specific social economic evaluation.

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Socio-economic Conditions	Q-43	Effects of the presence and operation of the pipeline on current and future public access and use of forest lands and water bodies, including trapping, hunting, fishing, recreation and tourism and resort activities (e. g. hiking, snowmobiling, ice fishing and water sports).	<p>Potential effects of the presence and operation of the Project on current and future public access and use of forest lands and water bodies will be addressed in the Impact Statement.</p> <p>Consultative working tables on these topics with stakeholders are currently being held and will continue in 2020. Gazoduq expects to receive feedback that could then be taken into account in the development of its Impact Statement.</p> <p>Additionally, Gazoduq has made offers to provide funding and assistance to potentially affected Indigenous groups to hire experts of their choice and conduct their own studies with regards to current and future public access and use of forest lands and water bodies. Gazoduq encourages Indigenous groups to conduct and provide information on these topics in their studies.</p>
Socio-economic Conditions	Q-44	Details on anticipated measures to align land use, including during the dismantling of infrastructure and temporary access to forest areas.	Temporary worksites will be reclaimed after construction in order to restore the affected environment to an equivalent land potential with conditions similar to pre-construction. Specific reclamation goals and measures will be detailed in the Environmental Protection Plans that will be appended to the Impact Statement. Follow-up monitoring programs will also be described.
Project Contribution to Sustainability	Q-45	Project's contribution to environmental and economic sustainability, both nationally and internationally.	The Impact Statement will characterize the Project's contribution to environmental and economic sustainability, both nationally and internationally.
Project Contribution to Sustainability	Q-46	Concerns about the project's impact on intergenerational equity and the project's positive and negative impacts on the planet for the next seven generations.	A sustainability analysis will be provided in the Impact Statement.
Waste	Q-47	Details on the management and disposal plan for all waste generated during the project life cycle. Clarity on the different types of waste produced, including non-hazardous solid waste and toxic or hazardous industrial waste.	<p>As discussed in Section 24 of this Detailed Project Description, a waste and hazardous materials management plan will be developed and included in the Environmental Protection Plans for the Project. The following four guiding principles will be an integral part of this plan:</p> <ul style="list-style-type: none"> • preventive measures will be taken to avoid releasing waste and hazardous material into the environment; • any release of waste or hazardous materials will be reported to the relevant authorities; • any release of waste or hazardous materials will be cleaned up in a timely manner; and • waste or hazardous materials will be recycled, disposed of or transported to an authorized disposal site in accordance with all applicable legislation.

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<p>Drinking Water, Surface Water, and Groundwater</p>	<p>Q-48</p>	<p>Effects on existing or potential drinking water sources, including groundwater sources and eskers in areas through which the pipeline will flow, that may be affected by, among other things, changes in water flow, accidents and malfunctions.</p>	<p>During construction, watercourse crossing work would typically be the main source of possible disturbances that may affect the quality and quantity of surface water. Crossing methods that are suitable for the biophysical conditions of each watercourse will be selected in accordance with best practices and industry standards.</p> <p>Hydrostatic testing to confirm the integrity of the natural gas transmission line will be conducted. These tests may require the use of locally available surface water. Intake and discharge of water will comply with applicable laws and regulations.</p> <p>Minimal impact on surface water is expected during the operational phase of the natural gas transmission line.</p> <p>In the unlikely event of an accident or malfunction of the natural gas transmission line, the escaping natural gas will bubble to the surface and dissipate into the atmosphere. The natural gas will not mix with the water so there is no risk of contamination to the drinking water.</p> <p>Nonetheless, Gazoduq is sensitive to this concern and has avoided known municipal potable water supply protection areas as part of the development of the Preferred Planning Area.</p> <p>Potential contamination risks are mainly related to accidental spills of hydrocarbons from equipment and machinery during construction. Measures for mitigating potential effects on drinking water sources, including eskers, will be incorporated into the Environmental Protection Plans for the Project.</p>
<p>Drinking Water, Surface Water, and Groundwater</p>	<p>Q-49</p>	<p>Concerns about the amount of water used by the Énergie Saguenay project plant and the management of contaminated water generated there.</p>	<p>For the applied-for Project, Gazoduq will address water requirements and management in the Impact Statement. However, Gazoduq will only transport natural gas to GNLQ's Énergie Saguenay project from a tie-in to TC Energy's mainline near Ramore, Ontario. Accordingly, Gazoduq does not and will not have information enabling it to comment on concerns about the amount of water used by Énergie Saguenay , as this is outside the scope of the applied-for Project. Gazoduq notes that these matters are being considered in the context of GNLQ's Énergie Saguenay project, which is subject to a separate and distinct regulatory assessment.</p>

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Drinking Water, Surface Water, and Groundwater	Q-50	Effects on the physicochemical quality of the surface and groundwater (aquifers) related to the construction and operation phases. Consideration of groundwater resurgence and various sources of contamination such as deposition of air pollutants and dust, erosion, sedimentation, runoff, acid rock drainage or leached metals, wastewater discharge, discharge of harmful substances related to accidental spills, methane leakage due to pipe breaks and maintenance of access roads with herbicides.	<p>See Q-48.</p> <p>In general, groundwater is not impacted by the construction or operation of a natural gas transmission line. Nonetheless, special attention will be given to the planning and execution of excavation work, blasting, and directional drilling, and appropriate mitigation measures will be implemented, as required.</p> <p>An acid rock drainage assessment will be presented in the Impact Statement. Note that Gazoduq has committed to not using herbicides.</p> <p>Potential effects on surface water would be felt mainly during the construction phase, specifically during watercourse crossing work. The main potential impact would be sediment input during construction. Appropriate crossing methods will be chosen taking into account the sensitivity of the watercourses. Specific mitigation measures will also be implemented, as required.</p>
Drinking Water, Surface Water, and Groundwater	Q-51	Effects on the hydrological regime (surface water), including forest environments, and hydrogeological (groundwater) regime of all watercourses attributable to various disturbances and works that may affect the direction of flow, such as hydrostatic tests, excavation or reworking of soils, the presence of sediments or rocks, and drilling and blasting.	See Q-48 and Q-50.
Drinking Water, Surface Water, and Groundwater	Q-52	Effects on surface and groundwater quality of project-related activities, including those due to hydraulic fracturing during natural gas extraction, taking into account the type of sediment in the analysis.	<p>Potential effects of the Project on surface and groundwater quality will be addressed in the Impact Statement.</p> <p>There are no Project-related effects due to hydraulic fracturing as the Project is a natural gas transmission line that starts at TC Energy's mainline tie-in near Ramore, Ontario and ends at Gazoduq's interconnection to its primary customer, GNLQ's Énergie Saguenay project in Saguenay, Québec.</p>
Cumulative Effects	Q-53	Cumulative effects on greenhouse gas emissions and climate change.	A cumulative effects assessment will be done for valued components of the Project, including GHGs and climate change. This assessment will be provided in the Impact Statement.
Cumulative Effects	Q-54	Cumulative effects on biodiversity, species at risk and ecosystems, including the beluga whale's wildlife habitat.	<p>A cumulative effects assessment will be done for valued components of the Project, including species at risk. This assessment will be provided in the Impact Statement.</p> <p>The Project will not be undertaken in a marine environment. As a result, beluga whale wildlife habitat is outside the scope of the applied-for Project and will not be addressed in the assessment.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Cumulative Effects	Q-55	Cumulative effects on biodiversity and ecosystems in the context of climate change due to migration of plant and wildlife species, forest fragmentation and habitat loss.	A cumulative effects assessment will be done for valued components of the Project, including vegetation and wildlife and wildlife habitat. This assessment will be provided in the Impact Statement.
Cumulative Effects	Q-56	Cumulative and regional effects on agricultural lands and activities, on the Saguenay River and on its users attributable to increased marine traffic and past, present and future development projects related to the effects of the Gazoduq project, including the Énergie Saguenay project.	The Preferred Planning Area does not cross the Saguenay River. Note however, that potential cumulative effects of present and future development projects in the vicinity of the Gazoduq Project, on other agricultural lands and activities, will be addressed in the Impact Statement. Marine traffic will not be part of this assessment as the Project does not take place in a marine environment.
Cumulative Effects	Q-57	Cumulative effects on vital functions of marine animals and mammals, including the beluga whale, due to increased vessel traffic and movement that could result in increased noise pollution and collision risk. Cumulative effects of these same activities on the habitat of these species due to changes in ecosystem productivity and ecological services, including water filtration, sediment mixing and nutrient cycles.	A cumulative effects assessment will be done for valued components of the Project, including species at risk. This assessment will be provided in the Impact Statement. The Project will not be undertaken in a marine environment. As a result, beluga whale wildlife habitat is outside the scope of the applied-for Project and will not be addressed in the assessment.
Cumulative Effects	Q-58	Cumulative effects on Indigenous peoples, including the cumulative effects of impacts on their rights. In addition to communities located near the proposed project route, consideration should be given to communities whose traditional territory is crossed by the project or who are located in the watersheds affected by the project.	The cumulative effects on Indigenous groups identified by the Crown, including the cumulative effects of impacts to their rights, will be considered as part of the cumulative effects assessment of the Project. Further, potentially impacted Indigenous groups were identified in accordance with the process described in Section 4.5 of this Detailed Project Description. Gazoduq encourages communication with designated members of the Indigenous relations team regarding cumulative effects on Indigenous peoples, including the cumulative effects of impacts on their rights. In addition to Indigenous groups located near the Project, consideration has been given to other Indigenous groups identified by the Crown.
Cumulative Effects	Q-59	Clarity on the ecological impacts and cumulative effects of hydraulic fracturing.	Gas extraction and existing natural gas transportation facilities up to the link to the TC Energy mainline are not part of the Gazoduq Project.

Subject	ID	Summary of Issues	Gazoduq Responses
Cumulative Effects	Q-60	Concerns about the safe coexistence of the project with current and future mining operations in relation to ground-based explosions and vibrations caused by mining activities.	<p>Gazoduq will be subject to life-cycle regulation by the CER and will be subject to the CER Act, including the damage prevention and mining provisions in Part 6 of that act. Among other things, these provisions and related regulations are intended to protect Project facilities and ensure safe coexistence with nearby mining operations.</p> <p>That theme was a question raised during Gazoduq’s own consultation process. In winter 2020, broad-based thematic public consultation activities will take place in potentially affected regions. The purpose of these consultations will be to present the results of the studies conducted to date and to gather comments and proposals on any possible concern such as this one from citizens in order to improve the Project.</p>
Cumulative Effects	Q-61	The risk that other gas or oil pipelines will be built in the study area in the future.	<p>There is no risk that Gazoduq will build an oil pipeline in the study area in the future. Nor will it convert the natural gas transmission line to oil service. A public commitment was made and publicly reiterated by the company’s senior management in that sense. That element will also be included in the land rights agreements (easements or others) to be agreed upon with the landowners in due course.</p> <p>If a local distribution company contracts for natural gas transportation service, a tie-in connection will be required. Such a tie-in would be in the study area and may or may not result in construction of other natural gas distribution lines in the surrounding area.</p>
Effects of the Environment on the Project	Q-62	Environmental effects on pipeline resilience and natural gas transport due to freeze-thaw cycles, climate change and increased extreme weather and rainfall events. Details of the climate-sensitive aspects of the project design that were taken into account.	The resilience of the infrastructure is being assessed and will be presented in the Impact Statement.

Subject	ID	Summary of Issues	Gazoduq Responses
<p>Effects of the Environment on the Project</p>	<p>Q-63</p>	<p>Effects of forest fires on explosion risks.</p>	<p>Gazoduq is conducting a technical risk assessment of the Project. This assessment will address the risks of explosions and fires and will be appended to the Impact Statement. Gazoduq notes that fire and gas detectors will be installed in its facilities and that a positive detection would trigger shutdowns, alarms, isolations, and blowdown procedures. A fire response plan is also being developed with measures to be followed in the event of a fire or high risk of fire.</p> <p>Gazoduq will also conduct consultation activities in 2020 with local representatives who are responsible for public safety and with fire departments to finalize an Emergency Response Plan that will be adapted to the various communities along its preferred route.</p> <p>As indicated in Section H.3.5 of this Detailed Project Description, Gazoduq will ensure that appropriate relationships are established with all organizations that may be involved in an emergency response. These could include first responders, municipalities, regional branches of applicable ministries, and Indigenous groups. Gazoduq will ensure that communication channels with these organizations and communities are maintained to ensure that a coordinated response to an incident is possible. These discussions will take place prior to the commissioning of the Project.</p>
<p>Acoustic Environment</p>	<p>Q-64</p>	<p>Effects of noise pollution during the construction and operation phases.</p>	<p>Gazoduq has identified that the use of heavy equipment, the movement of vehicles, and blasting work could be the primary sources of temporary ambient noise increases during the construction phase of the Project. Noise mitigation measures will be implemented as needed to comply with applicable regulations. The main source of noise will be from the compressor stations during the operational phase. A noise modelling study is currently underway to assess regulatory compliance. The study will be provided in the Impact Statement.</p> <p>Other noise-generating activities will be carried out during the operational phase but will be of short duration and temporary (e.g., vegetation control, maintenance activities, and motorized or aerial inspections).</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Atmospheric Environment	Q-65	Effects on air quality in general, during all phases of the project.	<p>All major construction sites are temporary sources of atmospheric emissions and particulate matter (PM) given the significant number of vehicles, equipment and machinery used simultaneously and the nature of the activities (e.g., earthworks, clearing, blasting, and transportation). Thus, NO_x, SO₂, CO and PM (dust) emissions, amongst others, are expected. The Project will implement industry standard mitigation measures to reduce construction emissions.</p> <p>During operation, air quality may be affected by air emissions from compressor stations. An atmospheric emissions study is currently underway and will be presented in the Impact Statement. The study will cover the construction and operations phases of the Project. As indicated in Sections 7 and 20.2 of this Detailed Project Description, by potentially connecting northern Ontario and Québec as well as certain export markets to competitively-priced Canadian natural gas, the Project should facilitate the replacement of higher emitting sources of energy (e.g., coal, fuel oil, and diesel) which would in turn have a beneficial impact on air quality (by reducing NO_x, SO₂ and PM emissions).</p>
Atmospheric Environment	Q-66	Effects on air quality from atmospheric emissions caused by project-related activities, including those from machinery exhaust gases, product leaks, fugitive dust, fuel combustion by-products, blasting products and compressor station operations.	See Q-65.
Atmospheric Environment	Q-67	Effects on human health and sensitive ecosystem receptors caused by particulate emissions (PM, PM ₁₀ and PM _{2.5}), nitrogen oxides (NO _x) and sulphur oxides (SO _x), and other potentially hazardous substances, such as volatile organic compounds (VOCs), hydrogen sulphide (H ₂ S), polycyclic compounds, aromatic hydrocarbons (PAH) and carbon monoxide (CO).	<p>See Q-65.</p> <p>Potential Project effects on air quality, from a human health and environmental perspective, will be addressed in the Impact Statement.</p>
Atmospheric Environment	Q-68	Effects on human health and sensitive ecosystem receptors due to dust emissions from activities that physically disturb the soil or rock, such as earthworks (digging activities), clearing, blasting and transportation.	See Q-67.

Subject	ID	Summary of Issues	Gazoduq Responses
Visual Environment and Natural Heritage	Q-69	Effects of change to visual environmental on human receptors, including impact on the local tourism industry.	An extensive data collection effort was deployed to document the valued landscapes that may be crossed or affected by the Project. Gazoduq is also currently organizing consultative working tables with representatives from the local tourism industry, amongst others, on such matters. The feedback obtained and the data collected will be integrated in the assessment of the potential effects of the visual environment which will be presented in the Impact Statement.
Visual Environment and Natural Heritage	Q-70	Effects on the territory's natural and wild landscapes in the Saguenay and Abitibi regions, including those of high tourist value, in relation to the project and its related activities, such as the establishment of new industries in the industrial port area and the increase in maritime traffic.	See Q-69. Marine shipping will not be part of this assessment as the Project does not take place in a marine environment.
Visual Environment and Natural Heritage	Q-71	Effects of compressor stations on the surrounding landscape considering that the proposed sites are used for recreational and tourism purposes.	Potential effects of the Project, including the compressor stations, will be addressed in the Impact Statement. Also, consultative working tables are currently being conducted in order to assess these specific questions regarding recreational and tourism aspects and questions with representatives from the industry and the associations and groups in that sector. Gazoduq expects to receive feedback that could then be taken into account in the development of its Impact Statement.
Visual Environment and Natural Heritage	Q-72	Clarity on the landscape alignment measures that will be taken for this permanent right-of-way project.	As mentioned in response to Q-69, an extensive data collection effort was deployed to document the valued landscapes that may be crossed or affected by the Project. Depending on the route selected, specific mitigation measures may need to be proposed in certain locations and based on consultations with the affected communities.
Species at Risk	Q-73	Effects on the integrity of threatened or vulnerable wildlife and plant species or species likely to be designated in the corridor under study (17 species at risk, including wolverine, caribou, the Blanding's turtle, yellow rail, striped bass, American eel, Arctic char and 18 plant species at risk).	Potential effects of the Project on wildlife and plant species that are threatened or vulnerable, or that may be designated as such, will be assessed in the Impact Statement. Specific field surveys were undertaken in 2019 to gather information on the potential presence of these species within Project area. The data collected will help tailor specific mitigation measures to limit potential effects, if any, on these species.

Subject	ID	Summary of Issues	Gazoduq Responses
Species at Risk	Q-74	Effects on federally listed species at risk, including beluga whales, right whales, humpback whales and caribou, that may result from construction and operation of the project and that affect one or more individuals, including death, harassment or other harm suffered, destruction of residence or critical habitat.	Potential effects of the Project on federally listed terrestrial (plant and wildlife) and aquatic species at risk will be assessed in accordance with applicable provisions in the TIS Guidelines. As the Project will not take place in a marine environment, the effects on federally listed marine species (e.g., beluga, right and humpback whales) will not be included in the Impact Statement.
Species at Risk	Q-75	Specific effects on species at risk on federal lands.	The specific effects on species at risk will be assessed in the Impact Statement. As for federal lands, refer to Sections 13.6, 17, and 20.1 of this Detailed Project Description.
Species at Risk	Q-76	Effects on species at risk in general, including the location of these species, due to accidents and malfunctions and sensory disturbances caused by noise, lights, vibration, blasting, machinery, contamination and increased marine traffic in the Saguenay, the Saint-Laurent and its gulf.	Potential effects of the Project on federally listed terrestrial and aquatic species at risk (plant and wildlife) will be assessed in accordance with applicable provisions in the TIS Guidelines. As the Project will not take place in a marine environment, the effects of marine shipping will not be included in the Impact Statement.
Species at Risk	Q-77	Effects on the use of habitat and critical habitat by species at risk due to habitat loss, fragmentation and temporary or permanent alteration, sensory disturbance and individual mortality. Effects of related equipment, including temporary infrastructure and new access roads, on threatened and vulnerable ecosystems and species.	Mapped critical habitats for species at risk are avoided in the Preferred Planning Area. Nonetheless, potential effects of the Project on the use of habitat and critical habitat by species at risk will be assessed in accordance with applicable provisions in the TIS Guidelines. This assessment will include the items identified in this question.
Species at Risk	Q-78	Clarity on how to consider habitats of species likely to be designated as threatened or vulnerable in determining the preferred planning area and the effects of habitat loss on the recovery of species at risk.	As described in Section 13 of this Detailed Project Description, Gazoduq has undertaken an exhaustive and iterative selection process to determine a route for the transmission line from an environmental, social, economic and technical perspective, including an extensive public information and consultation process to document the territory and receive the communities' input. Gazoduq sought to avoid mapped critical habitats of threatened or vulnerable species. In addition, confirmatory surveys of species at risk and their potential habitat have been and are being undertaken for the Project. Measures to mitigate and potentially offset, where required, will be adopted for the Project, as will measures for follow-up monitoring programs. These measures will be developed in consultation with applicable regulatory authorities. Additional information on habitat effects will be provided in the Impact Statement.

Subject	ID	Summary of Issues	Gazoduq Responses
Species at Risk	Q-79	Effects of linear infrastructure on caribou and caribou habitat, including habitat destruction and fragmentation and changes in the movement of its predators, as well as pipeline construction in the vicinity of esker beds.	<p>The Preferred Planning Area presented in Appendix G of this Detailed Project Description avoids woodland caribou distribution ranges and mapped critical habitats.</p> <p>Nonetheless, potential effects on caribou and caribou habitat will be assessed in the Impact Statement in accordance with applicable provisions in the TIS Guidelines.</p>
Species at Risk	Q-80	Clarity on the requirement for permits under Canada's Species at Risk Act.	Gazoduq strives first to avoid adverse effects on valued components, including federally listed species at risk. If avoidance is not feasible, Gazoduq then strives to mitigate or reduce them. Gazoduq is aware of the permitting provisions under Canada's Species at Risk Act (SARA) and will continue consulting with Environment and Climate Change Canada (ECCC) on them.
Species at Risk	Q-81	Need for a moratorium on projects that threaten the survival or recovery of species at risk, particularly marine mammals.	<p>The Project will not be undertaken in a marine environment and as a result, marine animals and mammals are considered outside its scope.</p> <p>In parallel, Gazoduq strives first to avoid potentially adverse effects of the Project on valued components, including species at risk. If avoidance is not feasible, Gazoduq strives to mitigate or potentially offset the effects.</p>
Project Expansion	Q-82	Details on the extent of the potential expansion of the natural gas pipeline system implied by the provision of open access, including the additional right-of-way of potential additional infrastructure and the environmental and socio-economic effects and benefits of such expansion.	<p>The Project is designed to transport approximately 51 million cubic metres (1.8 billion cubic feet) of natural gas per day on an open access basis. While most of this capacity is required to supply GNLC's Énergie Saguenay LNG project with a long-term supply of natural gas, there will be capacity available to provide natural gas transportation services to local distribution companies in northern Ontario and Québec.</p> <p>The applied-for Project does not need to be expanded to accommodate open access transportation service.</p> <p>If a local distribution company contracts for natural gas transportation service, a tie-in connection will be required. Such a tie-in may or may not result in construction of other natural gas lines.</p>
Terrestrial Wildlife and their Habitat	Q-83	Clarity on how animal rights have been or would be considered.	Potential effects on terrestrial wildlife and wildlife habitat will be assessed in accordance with applicable provisions in the TIS Guidelines.
Terrestrial Wildlife and their Habitat	Q-84	Effects on wildlife (including waterfowl, large wildlife and furbearer populations) due to habitat loss and modification, creation of barriers to dispersal, disruption of movement corridors and changes in wildlife predation and migration.	Potential effects on wildlife will be assessed in the Impact Statement. Any measures to mitigate effects that could be necessary will be included in the Environmental Protection Plans for the Project.

Subject	ID	Summary of Issues	Gazoduq Responses
Terrestrial Wildlife and their Habitat	Q-85	Effects on wildlife due to the construction of permanent access roads (required to maintain the pipeline) on land access and the increased removal pressure that may result.	Potential effects on wildlife, including terrestrial and avian, will be assessed in accordance with applicable provisions in the TIS Guidelines. This assessment will include the construction of permanent access roads required for operations. Measures to mitigate effects will be included in the Environmental Protection Plans for the Project.
Terrestrial Wildlife and their Habitat	Q-86	Effect on wildlife caused by noise, including noise caused by blasting.	<p>Some wildlife species are sensitive to noise, while others are less sensitive.</p> <p>The effects of disturbance to wildlife (particularly related to noise during the construction period) will be documented in the Impact Statement.</p> <p>Measures to mitigate effects will be included in the Environmental Protection Plans for the Project.</p>
Terrestrial Wildlife and their Habitat	Q-87	Long-term effects on wildlife, including cumulative effects, taking into consideration, among other things, existing forestry operations, mining and hydroelectric dams in the study corridor, and residual effects after mitigation.	A cumulative effects assessment will be done for valued components of the Project. Existing conditions (e.g. forestry operations) will be presented as baseline conditions and future projects within the vicinity of the Gazoduq Project will be assessed to determine cumulative effects. This assessment will be provided in the Impact Statement. Residual effects after mitigation will also be assessed in accordance with the applicable TIS Guidelines.
General	Q-88	Clarity on the obligations that will be imposed by the proponent on future clients or subcontractors, particularly in terms of labour, community involvement and the fight against climate change.	<p>Gazoduq will strive to include, as much as possible, the communities along the route in the development of its Project. As for any similar project, Gazoduq will require prospective contractors to demonstrate their ability to meet or exceed Gazoduq's health, safety and environmental performance requirements as well as their alignment with Gazoduq's commitment to the communities it works with. Additional information on contractor performance with respect to commitments will be provided in the Impact Statement.</p> <p>Consultative working tables are currently being conducted in order to address specific questions and gather additional information/perspectives in connection with the economic spinoffs potential, which will be taken into consideration in the development of the Impact Statement.</p>
General	Q-89	Clarity on the extent, duration and reversibility of environmental effects.	The method used to assess impact significance is based on impact characterization including extent, duration and reversibility of environmental effects.

Subject	ID	Summary of Issues	Gazoduq Responses
General	Q-90	Clarity on what the proponent considers being approval by landowners who are affected by a field study or located on the proposed project route and the means and processes by which easements and access to public and private lands will be obtained. Details on the duration of the easement.	<p>Gazoduq intends to reach an agreement with each landowner with lands on the route of the underground natural gas transmission line.</p> <p>As mentioned in Section 3 of this Detailed Project Description , as part of its information and consultation process, Gazoduq has met with the vast majority of potentially affected landowners and is continuing ongoing discussions with them to finalize and conclude agreements authorizing field surveys on their property. The agreement for field surveys has been established in collaboration with the UPA and is clear that this agreement is only for field surveys, not an agreement for the permanent ROW.</p> <p>Further details on the land acquisition process will be described in the Impact Statement and during development of the Project.</p> <p>For further clarity, survey permissions and land rights will be negotiated with landowners. Survey permissions are short-term whereas the land rights, which must comply with Part 6, Lands, of the CER Act, are longer term. Sample agreements will be included in the Impact Statement. These sample agreements provide a framework for individually negotiated agreements, which will typically include additional information (including on compensation).</p>
General	Q-91	Address all requirements described in the Filing Manual of the National Energy Board, as well as the Interim Filing Guidance and Early Engagement Guide of the Canada Energy Regulator.	<p>Gazoduq will ensure that the applicable requirements in the Filing Manual and the CER Interim Filing Guidance and Early Engagement Guide dated 22 August 2019 are addressed.</p> <p>Gazoduq will also ensure that the applicable requirements of the TIS Guidelines and provincial requirements are addressed.</p>
General	Q-92	Clarity on the fees that could be collected by the proponent.	<p>Once the Project is placed in service, Gazoduq will charge its shipper(s) tolls for the transportation services it provides, based on cost-of-service principles. Information on the tolls will be provided in the Impact Statement. In addition, a separate application under Part 3 of the CER Act will be submitted to the CER in the first quarter of 2020, which will seek prior approval of the transportation services proposed for the natural gas transmission line, as well as of the tolls and tariffs needed to implement them. The application will not include the physical works associated with the applied-for Project.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
General	Q-93	Clarity about the proponent's management system, and whether it will be based on recognized standards (e.g., ISO standards).	<p>To reduce operational risk and promote continuous improvement, Gazoduq will put into place an integrated management system (IMS) that will comply with Sections 6.1 to 6.5 of the NEB/CER Onshore Pipeline Regulations. The IMS will integrate Gazoduq's operational activities and technical systems with its human and financial resources management to enable it to meet its obligations under applicable regulations.</p> <p>The IMS will apply comprehensively to all activities within each phase of the natural gas transmission line's lifecycle, through design, construction, operations, and abandonment of the natural gas transmission line, and to each of the Protection Programs developed by Gazoduq for Safety Management, Integrity Management, Security Management, Emergency Management, Damage Prevention, and Environmental Protection (collectively referred to as the 'Protection Programs'). The IMS will ensure systematic coordination between the Protection Programs. This management system will be described in the Impact Statement.</p>
General	Q-94	Clarification of disaggregated baseline data for demographic and socio-economic aspects, including gender, age and ethnicity, of communities along the proposed project route.	Gazoduq has commissioned a third-party consultant to conduct a socio-economic study of the Project. This study will include baseline data for demographic and socio-economic aspects along the preliminary route.
General — Project Description	Q-95	Effects on federal lands, including the Port of Saguenay.	Refer to Sections 13.6, 17, and 20.1 of this Detailed Project Description.
General — Project Description	Q-96	Effects on marine transportation in general, including the need for tugs, their home ports, the additional infrastructure required and the impacts related to their use on affected regions, including the Saguenay.	The Project will not be undertaken in a marine environment and as a result, effects on marine transportation are considered outside its scope. Gazoduq notes these items are being considered in the context of GNLQ's Énergie Saguenay project, which is subject to a separate and distinct regulatory assessment.
General — Project Description	Q-97	Use of complete and representative data to establish the baseline condition (condition before the project is carried out).	A thorough and extensive data compilation exercise was carried out to document environmental and human components within the Study Corridor, including data from existing databases and from Project-specific requests to municipalities, government authorities, stakeholders and other organizations. This data was used in locating the Preferred Planning Area. Field surveys were performed to complete this data set.
General — Project Description	Q-98	Use of the precautionary principle in the project.	Gazoduq will describe its contributions to sustainability in the Impact Statement. It is acknowledged that use of the "precautionary principle" is recommended as one of four guiding principles that will need to be considered in this analysis.

Subject	ID	Summary of Issues	Gazoduq Responses
General — Project Description	Q-99	Clarity on the fact that the Énergie Saguenay project is a proposed project, undergoing an environmental assessment.	Gazoduq notes these items are being considered in the context of GNLQ's Énergie Saguenay project, which is subject to a separate and distinct regulatory assessment.
General — Project Description	Q-100	Details on potential customers other than GNL Québec (Énergie Saguenay project).	As indicated in Section 7 of this Detailed Project Description, Gazoduq conducted a non-binding open season to confirm interest, and to solicit additional interest, in shipping natural gas through the Project.
General — Project Description	Q-101	Details on the number of wells to be constructed and operated each year to meet the main customer's request.	Gas extraction and existing natural gas transportation facilities up to the link to the TC Energy mainline are not part of the Gazoduq Project.
General — Project Description	Q-102	Details on the project's incidental activities such as the extraction method of natural gas in Alberta (hydraulic fracturing or conventional extraction) and marine transportation in the Saguenay, the Saint-Laurent and its Gulf for the transportation of natural gas to export markets.	See Q-101. The Project will not be undertaken in a marine environment and as a result, effects on marine transportation are considered outside its scope. Gazoduq notes these items are being considered in the context of GNLQ's Énergie Saguenay project, which is subject to a separate and distinct regulatory assessment.
General — Project Description	Q-103	Clarity on the possibility that substances other than natural gas may be transported via the pipeline and that the pipeline may be transformed into an oil pipeline. Details on the possibility that the natural gas transported in the pipeline may come from outside Canada.	The Project's sole purpose is for the transport of natural gas. The Project's regulatory approvals will only allow transport of natural gas. A public commitment was made and publicly reiterated by the company's top management in that sense. That element will also be included in the land rights agreements (easements or others) to be agreed upon with the landowners in due course. The interconnection point to TC Energy's mainline in northeastern Ontario enables the receipt natural gas from Western Canada.
General — Project Description	Q-104	Clarity on the addition of potential natural gas transportation services and details on the completion of this transportation (e.g. related pipelines connected to the main pipeline).	In December 2019, Gazoduq launched a non-binding open season for transportation service on the Project. Any subscriptions to transportation service with deliveries upstream of the Énergie Saguenay project would require a tie-in connection to the Project. Other than the potential for tie-in(s), no other third-party pipeline facilities are anticipated as a result of the open season.
General — Project Description	Q-105	Clarity on the proposed project alignment, including detailed maps illustrating all project components, including roads, watercourses, Indigenous land and reserves, municipalities and administrative regions, Crown lands and agricultural components.	More detailed maps will be provided in the Impact Statement. For any specific question or concern that requires immediate attention, Gazoduq's team is available: FR: https://gazoduq.com/fr/a-votre-ecoute/nous-joindre/ ENG: https://gazoduq.com/en/listening-to-your-needs/contact/

Subject	ID	Summary of Issues	Gazoduq Responses
General — Project Description	Q-106	Clarity as to the surface area of Crown lands or public lands (federal and provincial lands) currently unused that will be used for the project. Specify whether the Ontario Heritage Act covers any lands.	<p>Refer to Sections 13.6, 17 and 20.1 of this Detailed Project Description for information on Crown land.</p> <p>The amount of Crown or Crown land (federal and provincial lands) currently unused that will be used for the project will be in the Impact Statement.</p> <p>According to the information collected to date, Gazoduq is not aware of any lands in the Preferred Planning Area as being designated under the Ontario Heritage Act.</p>
General — Project Description	Q-107	Clarity on the energy demand for all the components of the project throughout its life cycle.	Energy consumption estimates will be presented in the GHG emissions study that will be included in the Impact Statement.
General — Project Description	Q-108	Details on the areas, locations and spacing of project components, including block valves, access roads and other areas affected by the installation of stations, substations, valves, power sources, transmission and other indirect activities generated. Details on the location of the operations control centre.	<p>Details on the areas, preliminary locations, and spacing of main Project components are provided in Sections 9 and 13 of this Detailed Project Description. Additional information will be provided in the Impact Statement.</p> <p>The location of the operations centre will be finalized during detailed design.</p>
General — Project Description	Q-109	Clarity on the management of the soil that will be excavated when the pipeline is installed.	A soil management and handling plan will be provided with the Environmental Protection Plans for the Project. This plan will set out measures for handling soils that are excavated during construction of the transmission line.
General — Project Description	Q-110	Clarity about the protected areas affected by the project, including the proportion of protected areas that are crossed by the corridor under study compared to the project's preferred planning area, and the need for buffer zones between the preferred planning area and these protected areas.	There are no federally designated protected areas in the Study Corridor and no legally-designated protected areas at a provincial level in the Preferred Planning Area. Refer to Section 14 of this Detailed Project Description. The requested clarity on buffer zones will be determined after a preferred route is selected. These will be addressed in the Impact Statement.

Subject	ID	Summary of Issues	Gazoduq Responses
<p>General — Project Description</p>	<p>Q-111</p>	<p>Details and distinction between the activities and studies that will be carried out in the study corridor compared to those that will be carried out in the preferred planning area.</p>	<p>A Study Corridor was delineated to assess and compare different alternatives for the natural gas transmission line route between the starting point on TC Energy’s mainline near Ramore, Ontario and the end point, GNLQ’s Énergie Saguenay project in Saguenay, Québec.</p> <p>A thorough desktop data collection to establish the baseline environmental conditions was performed in order to document sensitive elements within the Study Corridor. This data collection included a specific information request to various organizations, ministries and municipalities, and the integration of numerous publicly available databases. Moreover, Gazoduq initiated public consultations on the Study Corridor in order to complement the collected information. The Study Corridor and Preferred Planning Area were developed for consultation and desktop data collection purposes.</p> <p>Field surveys were performed in specific locations in the Preferred Planning Area to further enhance the information collected on the receiving environment and to evaluate Project’s direct effects.</p> <p>A more limited spatial boundary (e.g. a 200 m--wide band) will be used to assess direct local effects in the Impact Statement.</p>
<p>General — Project Description</p>	<p>Q-112</p>	<p>Clarity on the appropriateness of the scale of the study corridor for the study of pipeline impacts and the criteria used to delineate it, including the extent of effects outside the proposed corridor.</p>	<p>The Study Corridor was delineated in order to proceed with the extensive data collection needed to assess and compare different route alternatives from the starting point on TC Energy’s mainline near Ramore, Ontario and the end point, GNLQ’s Énergie Saguenay project in Saguenay, Québec. This area will be considered in assessing regional and cumulative effects. Certain effects related to socio-economic considerations could also extend beyond the Study Corridor to urban centers in close proximity, where applicable.</p> <p>A more limited spatial boundary (e.g., a 200 m-wide band) will used to assess direct local effects. The assessment will be presented in the Impact Statement.</p>
<p>General — Project Description</p>	<p>Q-113</p>	<p>Clarity on the type of watercourses crossed by the pipeline (e.g. river, permanent or intermittent stream), their location, planned crossing methods and whether they constitute fish habitat.</p>	<p>Appendix M of this Detailed Project Description (Biophysical Elements of the Preferred Planning Area) provides a preliminary list of watercourses to be crossed by the transmission line. The list includes permanent and intermittent watercourses. An updated list will be provided in the Impact Statement. Planned crossing methods and fish habitat information will also be provided.</p>
<p>General — Project Description</p>	<p>Q-114</p>	<p>Clarity on the criteria that will determine the type of pipeline crossing in watercourses (under or in the watercourse), including clarification on the importance given to the economic aspect in the choice of crossing methods.</p>	<p>The criteria for determining a watercourse crossing method will be provided in the Impact Statement.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
General — Project Description	Q-115	Clarity on the quantity of water required for the construction of the project.	Quantities of water needed for construction of the Project will be estimated in the Impact Statement.
General — Project Description	Q-116	Clarity on the criteria that will be used by the proponent to select the contractors and suppliers responsible for the construction and operation of the project and how and by whom the supervision of the contractors will be carried out.	Prime contractors will be retained for Project construction through a competitive bidding process. Their safety management programs and performance records will be required as part of the contractor qualification and selection process. The work of the construction contractors will be subject to inspection by trained and experienced personnel and quality audits by Gazoduq. Additional information will be provided in the Impact Statement.
General — Project Description	Q-117	Clarity on the criteria used by the proponent to select the types of materials for the construction of the pipeline, including coating and metering system.	A quality management plan will be developed and used to ensure that the goods and services acquired for and used by the Project meet or exceed Gazoduq's quality requirements. These requirements will be specified in the plan and will adhere to the applicable requirements of ASME B31.8 and CSA Z662-19. The plan will also specify the audit and inspection plans for construction. Additional information will be provided in the Impact Statement.
General — Project Description	Q-118	Details on the method of burying the pipeline, cathodic protection and assembly methods, including the use of mechanical or chemical means and their effects on the environment.	Details on installing the natural gas transmission line and its major components are outlined in Section 9 of this Detailed Project Description. Additional information will be provided in the Impact Statement. This will include a conceptual description of cathodic protection (CP) facilities and installation. The actual CP facilities will be determined during detailed design, after the Impact Statement has been filed.
General — Project Description	Q-119	Clarity regarding the proponent's quarrying needs throughout the proposed project route.	Gazoduq will develop preliminary estimates of the quantities and potential sources of borrow material, including from quarries, that may be required for construction. It will endeavour to provide these estimates in the Impact Statement, recognizing that this type of information is typically determined during detailed design.
General — Project Description	Q-120	Clarity on the development of temporary sites (e.g., worker camp, storage areas, access road), including the location of these sites, their footprint, their environmental, social and economic effects and what will happen to them when construction is completed.	The development of temporary construction-related infrastructure will be described and assessed in the Impact Statement. Measures to mitigate effects will be provided in the Environmental Protection Plans for the Project. Follow-up and monitoring programs will be included.
General — Project Description	Q-121	Clarity on the development of permanent access roads, including long-term environmental, social and economic effects.	Permanent access roads could be required for the meter station, compressor stations and certain valve sites. A preliminary description of these roads will be provided, and their potential effects assessed, in the Impact Statement.

Subject	ID	Summary of Issues	Gazoduq Responses
General — Project Description	Q-122	Clarification of the work schedule and how it will be communicated to Indigenous peoples.	<p>Key milestones in the preliminary Project schedule are provided in Section 11 of this Detailed Project Description.</p> <p>The Impact Statement will provide a preliminary work schedule. Gazoduq will share the work schedule through the preferred means of communication for each Indigenous group, as identified through the course of Project consultations. At a minimum, notice of the work schedule will be provided in advance to each potentially impacted Indigenous group by e-mail.</p>
General — Project Description	Q-123	Clarity on the life of the project, particularly that of the gas pipeline.	As stated in Section 9.5 of this Detailed Project Description, the Project is anticipated to be in operation for at least 25 years. However, the Project's facilities could operate for 50 or more years, based upon the experience of existing natural gas transmission lines in North America. However, the Project's facilities could operate over an economic life of 50 or more years based on the experience of existing natural gas transmission lines in North America.
General — Project Description	Q-124	Clarity on the decommissioning and closure measures that will be taken by the proponent and details on the site rehabilitation plans at the end of the project life, including access roads.	When the transmission line and/or facilities are decommissioned or abandoned, long into the future, the proposed work will subject to federal and provincial regulatory requirements at that time. Meanwhile, as the Project is subject to life cycle regulation by the CER, Gazoduq will develop an estimate of future abandonment costs that will, if approved by the CER, be collected in a surcharge on its tolls for transportation service. This collection over time will ensure that sufficient funds will be available for future abandonment requirements.
General — Project Description	Q-125	Clarity on the proponent's commitment to remove the pipeline from agricultural and forest land upon cessation of activities.	As described in Section 9.5 of this Detailed Project Description, the Project's facilities could operate over an economic life of 50 or more years based on the experience of existing natural gas transmission lines in North America. Decommissioning and abandonment activities will comply with applicable federal and provincial regulatory requirements in force at the time of abandonment or decommissioning.
General — Project Description	Q-126	Clarity on the proponent's ability and financial strength to carry out its project over the long term, including consideration of potential ownership changes and resulting monitoring considerations.	The Impact Statement will include evidence of Gazoduq's ability to finance the Project and manage the potential costs associated with risks and liabilities that may arise during construction and operation.
General — Project Description	Q-127	Clarity on the proponent's plan, before the start of the project, to ensure the rehabilitation of the site in the event of bankruptcy or sudden termination of the project.	Project construction will not begin until the requisite regulatory approvals are obtained and a favourable final investment decision (FID) is made by Gazoduq and its shareholders. All of the financing arrangements necessary to complete construction will also have to be in place and are a prerequisite to a favourable FID. These are major milestones in the development of the Project and will not be achieved without the demonstrable financial strength and ongoing commitment of the Project proponent.
General — Project Description	Q-128	Clarity on the provision of funds for the removal of a pipeline from the ground under the jurisdiction of the Canada Energy Regulator.	See Q-124. Gazoduq is required to have a process and mechanism in place that will ensure adequate funds are available to pay for future abandonment of the transmission line and related facilities. These will be described at a high level in the Impact Statement. Before the in-service date of the Project, Gazoduq will file a separate application with the CER for approval of the mechanism that will be used to collect and manage the abandonment funds.

Subject	ID	Summary of Issues	Gazoduq Responses
General information — Impact Assessment Process	Q-129	Conduct a comprehensive impact assessment of all facilities and activities related to the project (gas pipeline, natural gas liquefaction plant, hydroelectric power supply, marine LNG terminal and marine traffic) that considers the impacts of gas extraction until its final use.	See Q-101. The Project will not be undertaken in a marine environment and as a result, effects on marine transportation are considered outside its scope. Gazoduq notes these items are being considered in the context of GNLC's Énergie Saguenay project, which is subject to a separate and distinct regulatory assessment.
General information — Impact Assessment Process	Q-130	Concerns about the consequences of two separate review processes for the pipeline and the liquefaction and marine export terminal facility on the resources available to government organizations and public agencies that will be involved in the impact assessment process.	Please note that the project description of a designated project regarding GNLC's Énergie Saguenay project was submitted in November 2015 to responsible authorities and that the assessment of the Énergie Saguenay Project is now well advanced. Gazoduq defers to responsible authorities in regards to the availability of adequate resources for the impact assessment process of the Gazoduq Project.
General information — Impact Assessment Process	Q-131	Need to set up an independent expert committee that will be able to provide complete and objective information on the project to the public and Indigenous peoples.	In Section 3.1 of this Detailed Project Description , Gazoduq explains that its information sharing and consultation process was designed, among other things, to achieve objectives that align with its values and approach. These objectives include providing factual, clear information on the Project to facilitate informed stakeholder participation, and establishing and providing various channels of communication to make information readily available to stakeholders and facilitate their participation in its information and consultation process. Accordingly, Gazoduq has always been, and remains, committed to ongoing and collaborative dialogue, including with applicable experts.

Subject	ID	Summary of Issues	Gazoduq Responses
<p>General information — Impact Assessment Process</p>	<p>Q-132</p>	<p>Details on the different impact assessment processes applicable to the project and possible joint coordination or consultation mechanisms between the Agency and the following jurisdictions or processes: Canada Energy Regulator, Ministère de l'Environnement et de la Lutte contre les changements climatiques (or Canada-Quebec joint Review Panel), Ontario Pipeline Coordination Committee, Ontario Energy Board and the environmental assessment process under Chapter 22 of the James Bay and Northern Quebec Agreement.</p>	<p>As indicated in Section 18 of this Detailed Project Description, the Project will be subject to an integrated review process led by the Agency and supported by the CER. This will require an impact assessment by an integrated review panel. Gazoduq understands that, under Section 39(2) of the <i>Impact Assessment Act</i>, the integrated review panel is to be comprised of IAAC and CER members. It further understands that under Section 21 of the Act, the Minister of Environment must offer to coordinate and consult with the jurisdictions, as they are defined in Section 2 of the Act. All of the jurisdictions listed in this issue appear to be captured by this definition. Also, in accordance with Section 5 of the Information and Management Time Limits Regulations, the Agency must namely provide to Gazoduq a plan for cooperation with other jurisdictions in the notice of commencement.</p> <p>Gazoduq has also indicated when it launched the Project, and in Section 18 of this Detailed Project Description, that it will participate in the Québec MELCC evaluation process leading to a BAPE hearing. For the Ontario portion of the Project, as described in Section 18 of the Detailed Project Description, Gazoduq continues to consult with various provincial authorities on their permitting and authorization responsibilities for the Project, including the assessment of potential environmental effects. Since its IPD filing in October 2019, Gazoduq has been advised that a coordinated review by the various Ontario government authorities is desirable, and that there is potential for the appointment of a lead agency. Gazoduq has however been advised that the lead agency will not be the Ontario Energy Board. Gazoduq will continue to seek near-term clarity concerning a lead agency and coordinated review by Ontario, and ensure that required dialogue and reviews are completed by the applicable authorities. Finally, Appendix Q of this Detailed Project Description contains the preliminary list of authorizations for the Project (which includes federal, provincial and others).</p>
<p>General information — Impact Assessment Process</p>	<p>Q-133</p>	<p>Details on the proponent's targeted timelines for completing its Impact Statement, which is scheduled to be filed in the first quarter of 2020, including the steps that will allow it to complete the assessment of the project's impacts on Indigenous peoples.</p>	<p>Refer to Section 11, Project Schedule, of this Detailed Project Description for the requested target timelines.</p> <p>Refer to Section 4, Engagement and Consultation Approach with Indigenous Groups, for details about Gazoduq's information and engagement process with Indigenous groups.</p> <p>Refer to Section 4.6.1.5 Indigenous-led Project-related Studies and Offers of Technical and Financial Support and to the sections related to discussions with each Aboriginal group (Section 4.6.2 and following).</p> <p>Gazoduq invited Indigenous groups to develop their own project-related studies and, to that end, offered financial and technical support.</p> <p>Refer to Section 4.7 Next Steps, which states that Gazoduq will also share with each Indigenous</p>

Subject	ID	Summary of Issues	Gazoduq Responses
			<p>group the part of the Impact Statement that concerns them prior to its submission in order to solicit their comments and take them into account.</p>
<p>General information — Impact Assessment Process</p>	<p>Q-134</p>	<p>Importance of scientific and social transparency and ethical conduct of the impact assessment process by all stakeholders.</p>	<p>Gazoduq holds itself and its subcontractors to high ethical standards. It is part of its core corporate values and is reflected in its actions and processes.</p>
<p>General information — Impact Assessment Process</p>	<p>Q-135</p>	<p>Clarity on the laws and regulations to be complied with and the authorization that must be obtained before the project is carried out, as well as the authorities responsible for making the final decision on the project. Details on the feasibility of the project schedule proposed by the proponent in relation to the scope of the project and the requirements of the Impact Assessment Act.</p>	<p>A preliminary list of authorizations for the Project (including laws and regulations) contained within Appendix Q of this Detailed Project Description. The list will be updated in the Impact Statement. Furthermore, as indicated on its website, the Agency will issue a Permitting Plan during Phase 1, which is a "document outlining the anticipated permits, licenses and authorizations required for a project" (https://www.canada.ca/en/impact-assessment-agency/services/policy-guidance/impact-assessment-process-overview/phase1.html). Also refer to Section 18 Jurisdictions with Powers or Duties Related to the Environmental Impact Assessment, of the Detailed Project Description for information on responsible authorities and the laws and regulations applicable to the Project.</p> <p>Subject to obtaining the required regulatory approvals by the third quarter of 2021, Gazoduq expects to make a final investment decision and begin construction in late 2021 / early 2022. The start of the construction phase cannot be delayed without significantly affecting the Project schedule. The success of the Project is based on the commissioning of the natural gas transmission line and compressor stations in the fourth quarter of 2024. This will require a strictly controlled but achievable approval schedule and Project execution.</p>

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General information — Impact Assessment Process	Q-136	Clarity on how the issues raised after the development of the summary of issues will be considered in the impact assessment process.	<p>Gazoduq understands that the answers it provides to the Agency’s Summary of Issues will help inform the tailoring of the TIS Guidelines for the Project. Gazoduq also understands that these guidelines will identify the information and studies that will be required for its Impact Statement.</p> <p>The Impact Statement will have a distinct section that outlines how significant Project issues have been considered, addressed, or incorporated into the Project.</p> <p>From an overall perspective, Gazoduq will maintain ongoing consultations with Indigenous groups and stakeholders throughout the planning and construction phases of the Project to address issues or concerns that arise.</p>
General information — Impact Assessment Process	Q-137	Clarity on the scope of the project to be assessed by the Agency and other regulatory jurisdictions (components and activities that will be included in the impact assessment process)	<p>The scope of the Project to be assessed by the Agency is comprised of the components and activities that are described in Gazoduq’s Initial Project Description and in this Detailed Project Description, as well as in the TIS Guidelines and the CER Filing Manual.</p> <p>The components and activities to be assessed by other regulatory authorities are identified in the Preliminary list of authorizations for the Project contained within Appendix Q of this Detailed Project Description.</p>
General information — Impact Assessment Process	Q-138	Consider the project in relation to a strategic climate change assessment and how it would be integrated into the project’s impact assessment.	<p>Refer to Section 6, Strategic Assessments under Section 95 of the <i>Impact Assessment Act</i>, of the Detailed Project Description.</p> <p>Gazoduq will provide the information requested in the draft Strategic Assessment of Climate Change (August 2019) in the Impact Statement.</p>
General information — Impact Assessment Process	Q-139	Inclusion impact analysis on a regional scale.	As indicated in Section 5 of the Detailed Project Description, Gazoduq is not aware of any Project-related regional assessment that has been or is in the process of being prepared.
Vulnerable population groups (GBA+)	Q-140	Effects on future generations.	Gazoduq will describe its contributions to sustainability in the Impact Statement. This analysis will consider the effects on future generations.
Vulnerable population groups (GBA+)	Q-141	Effects on the civil rights of the population.	The Impact Statement will include a Project-specific socio-economic study.

Subject	ID	Summary of Issues	Gazoduq Responses
Vulnerable population groups (GBA+)	Q-142	Effects on vulnerable population groups (GBA+) such as women, children, persons with disabilities, seniors and youth and details of the consultation activities that will be undertaken by the proponent to reach these population subgroups.	Potential effects of the Project on vulnerable population groups will be documented and assessed from a human health, social and economic perspective. The findings will be provided in a socio-economic study that is being prepared by a third party consultant and will be appended to the Impact Statement.
Vulnerable population groups (GBA+)	Q-143	Effects on the safety of Indigenous women due to the influx of workers into communities.	<p>Potential effects of the Project on local Indigenous groups will be documented and assessed from a human health, social and economic perspective. The findings will be provided in a socio-economic study constituting part of the Impact Statement.</p> <p>Mitigation measures that are identified and developed in consultation with potentially impacted Indigenous groups, will be incorporated into the Impact Statement and follow-up and monitoring programs will be clearly outlined.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding potential effects of the Project on the safety of Indigenous women due to an influx of temporary workers or any other Project-related concerns.</p>
Vulnerable population groups (GBA+)	Q-144	Effects on youths' fundamental rights to life and security, including environmental security.	Potential effects of the Project on vulnerable population groups, including youth, will be documented and assessed from a human health, social and economic perspective. The findings will be provided in the socio-economic study that is being prepared by a third party and will be appended to the Impact Statement.
Vulnerable population groups (GBA+)	Q-145	Effects on the quality of life of residents of local communities affected by the project, such as the Saguenay-Lac-Saint-Jean region, including population growth, unemployment rate, average housing prices, household incomes, cost of living and planning services for the aging population, and diversification of the regional economy.	Potential effects of the Project on local communities will be documented and assessed from a human health, social and economic perspective. The findings will be provided in a socio-economic study that is being prepared by a third-party consultant and will be appended to the Impact Statement. Measures to mitigate effects and follow-up and monitoring programs will be outlined in the Impact Statement, as required.
Vulnerable population groups (GBA+)	Q-146	Effects on access to services, including public services (e.g. health, community, etc.) for the different population groups affected by the project.	Potential effects of the Project on local and regional infrastructure, facilities and services will be documented and assessed from a human health, social and economic perspective. The findings will be provided in a socio-economic study that is being prepared by a third-party consultant and will be appended to the Impact Statement. Measures to mitigate effects and follow-up and monitoring programs will be outlined, as required.
Vulnerable population groups (GBA+)	Q-147	Clarification of the steps already taken and to be undertaken to conduct a GBA+ that includes the specific characteristics of Indigenous peoples.	<p>Gazoduq will conduct a socio-economic study of the Project and will include a GBA+ analysis.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team</p>

Subject	ID	Summary of Issues	Gazoduq Responses
			regarding specific characteristics of Indigenous peoples that should be taken into account into a GBA+ analysis.
Vulnerable population groups (GBA+)	Q-148	Clarity about the segments of the population that will benefit from or be affected (directly or indirectly) by the project, such as information on indigeneity (being an Indigenous person), religion, education levels, employment level, disability or accessibility, etc.	Gazoduq has retained a third-party consultant to conduct a socio-economic study of the Project. The study is expected to describe the social and economic benefits of the Project, as well as identify and assess potential effects on these components. It will be appended to the Impact Statement. Measures to mitigate effects and follow-up and monitoring programs will be outlined in the Impact Statement, as required.
Vulnerable population groups (GBA+)	Q-149	Consideration of the effects of gender equality and inclusion issues in all the elements considered by the proponent during the impact assessment process and throughout the project's life cycle, from planning to decommission.	Potential effects of the Project will be documented and assessed from a human health, social and economic perspective. The findings will be provided in the third party socio-economic study, which will be appended to the Impact Statement.
Vulnerable population groups (GBA+)	Q-150	A consultation approach that includes ensuring that barriers to the participation of underrepresented local groups are taken into account in consultation activities.	In Section 3.1 of this Detailed Project Description, Gazoduq explains that its information sharing and consultation process was designed, among other things, to achieve objectives that align with its values and approach. These objectives included providing factual, clear information on the Project to facilitate informed stakeholder participation and establishing and providing various channels of communication to make information readily available to stakeholders and facilitate their participation in its information and consultation process. Gazoduq will continue to adapt its communication and consultation processes based upon feedback received to further applicable participation.
Marine Mammals	Q-151	Effects on marine mammals, including beluga whales, right whales, dolphins and seals, due to project activities that alter, disrupt or destroy their habitat and cause noise pollution and collisions, including marine transportation in the Saguenay, the Saint-Laurent and its Gulf.	The Project will not be undertaken in a marine environment and as a result, effects on marine animals and mammals are considered outside its scope.

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Mitigation Measures, Follow-up, and Monitoring Programs	Q-152	Clarity on the application of the Law with respect to follow up and monitoring, including air and water quality requirements.	The Project will be designed, constructed, operated, and ultimately decommissioned in accordance with all applicable laws, regulations, and industry codes and standards. In the event of a conflict, the more rigorous requirement will prevail. Additionally, as part of its integrated management system, Gazoduq will have a process for monitoring and updating regulatory requirements on an ongoing basis. This approach applies across-the-board, including the monitoring and surveillance functions in this issue.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-153	Appropriate mitigation measures for the components they are intended to protect and that take into account cumulative effects.	As indicated in Section H.2 of the Detailed Project Description (Public Safety and Environmental Stewardship), Environmental Protection Plans are being developed for construction of the Project. Environmental Protection Plans, based mostly on standard mitigation, will be appended to the Impact Statement. The final Environmental Protection Plans, including both standard and site-specific mitigation, will be completed prior to construction, in the condition compliance phase of the Project. Appropriate mitigation measures will be included in these Environmental Protection Plans.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-154	Mitigation measures for impacts on fauna and flora that encompass all affected ecosystems and not only species with legal protection status.	Measures to mitigate potential effects on flora and fauna, for species with and without legal protection status, will be incorporated into the Environmental Protection Plans.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-155	Mitigation measures related to carbon offsetting or carbon neutrality of the project.	As indicated in Section 23 of its Initial Project Description, Gazoduq aims to reduce GHG emissions from operations primarily through effective design of the required compressor stations. Specifically, the feasibility of using electric power drive compression for the two compressor stations in Québec is being assessed and evaluated. In operations, the use of gas-powered turbines would be the main source of GHG emissions. Fugitive emissions could also be a contributing factor and as a result, mitigation measures to limit them will be implemented. Additional information on these and other measures will be provided in the Impact Statement.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-156	Mitigation measures for operators of commercial vessels crossing the Saguenay River.	The Project does not cross or otherwise affect the Saguenay River. Accordingly, Gazoduq does not and will not have information enabling it to comment on mitigation measures for operators of commercial vessels crossing the Saguenay River, as this is outside the scope of the applied-for Project
Mitigation Measures, Follow-up, and Monitoring Programs	Q-157	Mitigation measures related to habitat connectivity and species circulation.	Mitigation measures related to habitat connectivity and species passage will be integrated into the Environmental Protection Plans for the Project.

Subject	ID	Summary of Issues	Gazoduq Responses
Mitigation Measures, Follow-up, and Monitoring Programs	Q-158	Mitigation measures related to the protection of surface water in the various watersheds crossed by the proposed project.	Mitigation measures related to the protection of surface water will be incorporated into the Environmental Protection Plans for the Project.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-159	Mitigation measures related to integrated resource and land management, including logging requirements to limit impacts on sensitive species.	Gazoduq has been consulting with the forestry industry in the context of a series of consultative working tables, as well as with the forestry stewardship certification associations regarding such issues. The feedback and information obtained from these consultations will be used to develop appropriate mitigation measures, as required.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-160	Erosion control mitigation measures tailored to the ecological regions of the proposed project route.	The Environmental Protection Plans will include an erosion control risk management plan containing a suite of sediment and erosion control measures. Follow-up and monitoring programs will also be outlined.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-161	Mitigation measures to prevent all-terrain vehicles and snowmobiles from entering the corridor created by the pipeline right-of-way.	Various mitigation measures, including those pertaining to right-of-way access and safety, will be developed in consultation with stakeholders, Indigenous groups, landowners and regulatory authorities. Consultative working tables are currently being conducted in order to address specific questions and gather additional information/perspectives, which will be taken into consideration in the development of the Impact Statement.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-162	Mitigation measures relating to long-term agreements or leases, binding on any potential project owner, to clarify the possible compensation or indemnities granted to farm owners whose activities would be affected by the pipeline.	<p>Compensation and indemnities to agricultural landowners will be reflected in the land acquisition agreements negotiated for the Project. Sample agreements will be provided in the Impact Statement in compliance with the CER Act (Part 6, Lands) although individually negotiated agreements may include additional content, including compensation details.</p> <p>Gazoduq is having discussions with the UPA to conclude an agreement which will detail mitigation measure guidelines for agricultural and forestry lands, right-of-way management and potential compensation methods.</p>
Mitigation Measures, Follow-up, and Monitoring Programs	Q-163	Mitigation measures related to the burial of the pipe to allow the free circulation of agricultural machinery.	Various mitigation measures, including the burial depth in agricultural areas, are being discussed with UPA. As the Project will be subject to life-cycle regulation by the CER, crossings and use of heavy agricultural equipment in operations must comply with the CER's Damage Prevention Regulations.

Subject	ID	Summary of Issues	Gazoduq Responses
Mitigation Measures, Follow-up, and Monitoring Programs	Q-164	Mitigation measures related to the construction period to limit the overbidding of local resources and restrict the contribution of non-permanent external resources to the region to promote local economic benefits.	Various measures to limit overbidding of local resources and restrict the temporary influx of external resources, are being developed for the Project, in consultation with stakeholders, Indigenous groups, landowners and regulatory authorities. These measures will be incorporated into the Impact Statement, as required.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-165	Mitigation measures that take into account vulnerable population groups, including measures to prevent sexual harassment and gender-based violence.	Various mitigation measures, including to limit potential adverse effects on vulnerable population groups, will be developed for the Project, in consultation with stakeholders, Indigenous groups, landowners and regulatory authorities. These measures will be incorporated into the Impact Statement.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-166	Mitigation measures related to impacts on Indigenous peoples, their rights and their social, health and economic conditions.	<p>Various mitigation measures, including with respect to Indigenous groups and their rights, are being developed for the Project in consultation with potentially impacted Indigenous groups. These measures will be shared with potentially impacted Indigenous groups during ongoing consultations. Information on these consultations, including the results to-date, will be provided in the Impact Statement.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding mitigation measures related to effects on Indigenous peoples, impacts on their rights, and effects on their social, health and economic conditions or any other Project-related concerns.</p>
Mitigation Measures, Follow-up, and Monitoring Programs	Q-167	Involvement of Indigenous peoples in the development and implementation of environmental protection and emergency response plans, including training and related communication strategies. Consideration of existing services in Indigenous communities.	<p>As indicated in Section H.3.5 of the Detailed Project Description, Gazoduq will ensure that appropriate relationships are established with all organizations that may be involved in an emergency response. These could include first responders, municipalities, regional branches of applicable ministries and Indigenous groups with existing services.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding involvement of Indigenous peoples in the development and implementation of environmental protection and emergency response plans, including training and related communication strategies as well as consideration of existing services in Indigenous communities or any other Project-related concerns.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Mitigation Measures, Follow-up, and Monitoring Programs	Q-168	Mitigation measures related to monitoring involving Indigenous peoples, the proponent and relevant federal and provincial jurisdictions.	<p>As indicated in Section H.4.1 of this Detailed Project Description, Gazoduq expects that the terms and conditions of its monitoring program for Indigenous peoples will be discussed during consultations with potentially impacted Indigenous groups. This program will be applicable to the construction and post-construction phases of the Project, and will generally include monitoring of adverse environmental effects, effects on heritage resources, areas related to traditional land and resource use, and areas of cultural importance. They could include any or all of the other mechanisms above, subject to safety and oversight protocols.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding mitigation measures related to monitoring involving Indigenous peoples, the proponent and relevant federal and provincial authorities, or any other Project-related concerns.</p>
Mitigation Measures, Follow-up, and Monitoring Programs	Q-169	Details on the effectiveness and possible alternatives for the proposed mitigation measures.	The Environmental Protection Plans provided in the Impact Statement will be based primarily on standard mitigation, with measures that have been proven to be effective. In addition, follow-up and monitoring programs will be included in the Impact Statement. These programs will be used, among other things, to evaluate the effectiveness of mitigation measures and determine whether additional actions are necessary.
Mitigation Measures, Follow-up, and Monitoring Programs	Q-170	Mitigation measures to ensure that complaints are received and managed in a timely manner through the establishment of a committee by the proponent.	Mitigation measures to maintain open communication with potentially affected landowners, Indigenous groups and other stakeholders (e.g., other operators in the region and recreational land users) will be included in the Impact Statement. These measures will include the process for submitting complaints and how complaints will be handled (i.e., on a case-by-case basis).
Mitigation Measures, Follow-up, and Monitoring Programs	Q-171	Monitoring of mitigation measures, follow-up and monitoring programs by independent inspectors.	Follow-up and monitoring programs will be included in the Impact Statement. These programs will be used, among other things, to evaluate the effectiveness of mitigation measures and determine whether additional actions are necessary.
Wetlands, Forest and Agricultural Areas	Q-172	Effects on wetlands, water and forests, including old-growth forests and improved management areas, on the overall health of these areas, their ecological functions and resident species attributable to the construction of project components.	Potential Project-related effects on valued components of the biophysical environment, including the items in this issue, will be assessed in the Impact Statement, according to applicable guidance in the TIS Guidelines. Mitigation measures, as well as follow-up and monitoring programs, will also be provided.

Subject	ID	Summary of Issues	Gazoduq Responses
Wetlands, Forest and Agricultural Areas	Q-173	Effects on native plants, including their cutting and the risk of the spread of invasive plant species.	Potential Project-related effects on native plants will be assessed in the Impact Statement. Field surveys were conducted to identify and delineate the locations of rare native plants and invasive plant species. Mitigation measures to limit effects and the dispersion of invasive plants during construction and reclamation activities, as well as follow-up and monitoring programs, will also be provided in the Impact Statement.
Wetlands, Forest and Agricultural Areas	Q-174	Cooperation with Indigenous peoples to select plant species that should be planted along the proposed project route after the construction phase.	Gazoduq plans to work with potentially impacted Indigenous groups to select plant species that may be used in reclamation after construction. Gazoduq encourages communication with designated members of the Indigenous relations team regarding work with Indigenous peoples to select plant species for reclamation after construction or any other Project-related concerns.
Wetlands, Forest and Agricultural Areas	Q-175	Details on the methods used for deforestation, mechanical or chemical clearing and maintenance of the proposed project route and rights of way, including effects on human and animal health, ecosystems, biodiversity and species of cultural value.	Information on clearing for construction, including measures that will be used to mitigate potential effects, will be provided in the Impact Statement. Mitigation measures will be included in the Environmental Protection Plans. Follow-up and monitoring programs will also be included.
Wetlands, Forest and Agricultural Areas	Q-176	Details of the wetland and water loss compensation project(s) in order to respect the principle of zero net loss of wetlands and water.	The installation of the line will not result in permanent loss of wetlands, as the hydraulic functions of the wetlands will remain, including flora and soil indicators, with the exception of mature trees in the right-of-way. Aboveground installations, such as compressor stations, may result in the loss of wetlands. Gazoduq strives to minimize the net loss of wetlands and will endeavour to optimize the placement of such infrastructure. Preliminary information on wetland losses will be provided in the Impact Statement. Compensation and/or offsetting plans are expected to evolve in response to ongoing consultation with applicable regulatory authorities, Indigenous groups and potentially affected stakeholders after the filing of the Impact Statement.
Wetlands, Forest and Agricultural Areas	Q-177	Details on how the proponent will compensate for the loss of wetlands and comply with Quebec's Loi concernant la conservation des milieux humides et hydriques.	See Q-176.

Subject	ID	Summary of Issues	Gazoduq Responses
Navigation	Q-178	Effect on navigation on navigable waters, as defined in the Canadian Navigable Waters Act, attributable to activities during the construction phase.	Potential effects on navigation in navigable waters, as defined in the Canadian Navigable Waters Act, attributable to activities during the construction phase, will be addressed in the Impact Statement.
Navigation	Q-179	Effects on public and Indigenous peoples' navigation, including activities that impede or limit access to waterways (e.g. portage routes, access roads and places of tourist interest).	See Q-178.
Navigation	Q-180	Effects on sustainable navigation in the Saguenay River.	The Project does not cross or otherwise affect the Saguenay River and as a result, there are no potential effects on navigation in the Saguenay River.
Birds, Migratory birds, and their Habitats	Q-181	Effects on birds, including migratory birds due to loss, fragmentation and temporary or permanent alteration of habitat and disruption of traffic corridors.	<p>Construction work will result in potential changes to the habitats of migratory birds, which may extend to the Project's operational phase. Specifically, clearing vegetation will disturb bird habitats for the duration of construction work, but native vegetation will grow back and reclaim the habitat it previously occupied after the Project is commissioned. Vegetation control activities will be structured to maintain the shrubbery and herbaceous vegetation within the permanent right-of-way, and trees will be able to grow within areas subject to temporary work. This change of habitat could deprive certain woodland species of their habitat, while creating new habitats for other species. Essentially, construction and compressor station operations could result in sensory disturbances of varying severity (noise and human presence), that will affect certain species. To address these issues, mitigation measures will be implemented to limit their potential impact on the natural environment. Efforts will be made to perform vegetation clearing outside the reproduction periods of birds, to limit potential effects on nests.</p> <p>Table 19-1 lists potential changes to migratory bird habitat, their potential causes, and the risk of mortality (if mitigation measures were not required).</p> <p>Potential effects on birds, including migratory birds, will be assessed in the Impact Statement. Mitigation measures will be included in the Environmental Protection Plans, and follow-up and monitoring programs will be outlined.</p>
Birds, Migratory birds, and their Habitats	Q-182	Effects on birds, including migratory birds, of disturbance during nesting periods, including sensory disturbance from noise, lights, vibration, blasting and machinery.	See Q-181.

Subject	ID	Summary of Issues	Gazoduq Responses
Birds, Migratory birds, and their Habitats	Q-183	Effects on birds, including migratory birds, of mortality of individuals and destruction of nests and eggs or any other structure necessary for reproduction and survival, including effects on reproduction, migration and wintering.	See Q-181. Furthermore, field surveys were conducted in 2019 to identify and delineate the locations of potential habitats and nests.
Birds, Migratory birds, and their Habitats	Q-184	Effects on migratory birds of collision risks with vehicles or infrastructure related to the project.	See Q-181. Mitigation measures will also be applied during construction to avoid wildlife mortality from vehicle collisions.
Birds, Migratory birds, and their Habitats	Q-185	Effects on migratory birds and their habitats of accidental oil or chemical spills.	See Q-181. Mitigation measures will be applied during construction to avoid accidental oil or chemical spills. A spill contingency and response plan during construction will be included in the Impact Statement as part of the Environmental Protection Plans.
Birds, Migratory birds, and their Habitats	Q-186	Clarity on species for which vegetation control activities would create new habitats.	The following is a preliminary list of some species observed during the field surveys and which are associated with open shrub environments, clearings and forest edges. In theory, these birds would be favored by the opening that the right-of-way will create in the forest environment and by the control of the vegetation that will follow. <ul style="list-style-type: none"> • White-throated Sparrow (<i>Zonotrichia albicollis</i>) • Song Sparrow (<i>Melospiza melodia</i>) • Lincoln's Sparrow (<i>Melospiza lincolnii</i>) • Swamp Sparrow (<i>Melospiza georgiana</i>) • American Goldfinch (<i>Spinus tristis</i>) • Alder Flycatcher (<i>Empidonax alnorum</i>) • Wilson's Warbler (<i>Cardellina pusilla</i>) • Chestnut-sided Warbler (<i>Setophaga pensylvanica</i>) • Nashville Warbler (<i>Oreothlypis ruficapilla</i>) • Yellow Warbler (<i>Setophaga petechia</i>) • Common Yellowthroat (<i>Geothlypis trichas</i>) • Mourning Warbler (<i>Geothlypis philadelphia</i>)

Subject	ID	Summary of Issues	Gazoduq Responses
<p>Birds, Migratory birds, and their Habitats</p>	<p>Q-187</p>	<p>Details on the proposed compensation measures, at all stages of the project life cycle, for migratory birds to continue to use the territory during their migration.</p>	<p>Construction work will result in potential changes to the habitats of migratory birds, which could extend to the operations phase. Clearing vegetation will disturb bird habitats for the duration of construction work, but after the commissioning of the natural gas transmission line, native vegetation will grow back and reclaim the majority of the habitat it occupied.</p> <p>Table 19-1 lists potential changes to migratory bird habitat, their potential causes and the risk of mortality (if mitigation measures were not required).</p> <p>If any residual effects to migratory birds are identified, preliminary information on compensation plans will provided in the Impact Statement.</p>
<p>Indigenous Peoples — Health Conditions</p>	<p>Q-188</p>	<p>Effects on the physical and psychological health of Indigenous peoples, including through their land use in relation to the proposed project route.</p>	<p>Gazoduq has engaged potentially affected Indigenous groups and will continue to do so throughout the duration of the Project. Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects.</p> <p>Gazoduq is conducting a socio-economic study of the Project to address human health effects and community well-being effects. Results of this assessment will be integrated into the Impact Statement.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding effects on the physical and psychological health of Indigenous peoples, including through their land use in relation to the Project route or any other Project-related concerns.</p>
<p>Indigenous Peoples — Health Conditions</p>	<p>Q-189</p>	<p>Effects on the physical and psychological health of Indigenous peoples of contaminants in water, air or soil that can be absorbed in food trapped, fished, hunted, harvested or cultivated for subsistence or medicinal purposes.</p>	<p>Gazoduq is conducting a socio-economic study of the Project to address human health effects and community well-being effects. The socio-economic study will further be informed by Health Canada's guide entitled "Evaluating Human Health Impacts in Environmental Assessments: Country Foods." Results of this assessment will be integrated into the Impact Statement.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding effects on the physical and psychological health of Indigenous peoples of contaminants in water, air or soil that can be absorbed in food trapped, fished, hunted, harvested or cultivated for subsistence or medicinal purposes or any other Project-related concerns.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous Peoples — Health Conditions	Q-190	Need to choose social health indicators adapted to the specificities of Indigenous communities.	<p>Gazoduq has engaged potentially impacted Indigenous groups and will continue to do so throughout the duration of the Project. Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects.</p> <p>Gazoduq has made offers to provide funding and assistance to potentially impacted Indigenous groups to hire experts of their choice and conduct their own studies with regard to traditional use, impact on rights and socio-economic studies as part of the Indigenous-led, Project-related studies. Gazoduq encourages Indigenous groups to conduct and provide information, such as, social health indicators in these studies.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding the choice of social health indicators adapted to the specificities of Indigenous groups or any other Project-related concerns.</p>
Indigenous Peoples — Economic Conditions	Q-191	Effects on the economic conditions and economic well-being of Indigenous peoples, including economic development, employment and business opportunities for Indigenous peoples.	<p>Gazoduq is conducting a socio-economic study of the Project. This assessment is expected to address the items identified in this issue, amongst others.</p> <p>Gazoduq has made offers to provide funding and assistance to Indigenous groups to hire experts of their choice and conduct their own studies with regards to traditional use, impact on rights and socio-economic studies as part of Indigenous-led, Project related studies. Gazoduq encourages potentially impacted Indigenous groups to conduct and provide information such as the specific characteristics of the economic situations of Indigenous groups in these studies.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding effects on the economic conditions and economic well-being of Indigenous peoples, including economic development, employment and opportunities for Indigenous peoples or any other Project-related concerns.</p>
Indigenous Peoples — Economic Conditions	Q-192	It is important to identify the specific characteristics of the economic situations of Indigenous communities in each region when describing the economy of administrative regions.	See Q-191.

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous Peoples — Economic Conditions	Q-193	Clarity on how Indigenous peoples will benefit from local economic spinoffs generated during the construction and operation phases, including the hiring of local labour, contract award, potential use of gas for the needs of Indigenous communities, opportunity to participate in tenders, etc.	Gazoduq is conducting a socio-economic study of the Project. This assessment will include an estimate of the Project's economic benefits and Indigenous groups perspective, amongst other items. Dialogue established through the consultation process should establish how members of the potentially impacted Indigenous groups and Indigenous businesses may participate and benefit economically from the various activities during the different phases of the Project.
Indigenous Peoples — Economic Conditions	Q-194	Clarity on the compensation that will be granted to Indigenous peoples for the loss of territory.	When construction is completed, the area will be available for use again, subject to applicable laws. The exceptions are areas that will be fenced in and for which access will be restricted, Examples include compressor station and mainline block valve sites. As part of Gazoduq's information and engagement process, Gazoduq plans to discuss potential financial participation and other benefits with Indigenous groups. Information collected through consultations of Indigenous groups will inform the impact assessment and mitigation measures developed.
Indigenous Peoples — Economic Conditions	Q-195	Details on business partnerships with Indigenous communities planned for the long term (at least 25 years).	Gazoduq has engaged potentially affected Indigenous groups and will continue to do so throughout the duration of the Project. During ongoing consultations with potentially impacted Indigenous groups, Gazoduq will strive to find Project benefits which are appropriate to each Indigenous group.
Indigenous Peoples — Economic Conditions	Q-196	Details on existing economic activities among Indigenous peoples and how they are taken into account in the development of the project, including how they have been taken into account in the development of the proposed project route.	Gazoduq is conducting a socio-economic study of the Project. This assessment is expected to address the items identified in this issue, amongst others. Gazoduq has engaged potentially impacted Indigenous groups and will continue to do so throughout the duration of the Project. Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects. Gazoduq has made offers to provide funding and assistance to Indigenous groups to hire experts of their choice and conduct their own studies with regards to traditional use, impact on rights and socio-economic studies as part of the Indigenous-led, Project related studies. Gazoduq encourages Indigenous groups to conduct studies and provide information, such as the specific characteristics of economic conditions or activities, in these studies. Information provided in these Indigenous-led studies will be incorporated into the Impact Statement. Furthermore, Gazoduq has sought and remains open to input regarding the Project route since the launch of its Project. Gazoduq encourages communication with designated members of the Indigenous relations team for concerns related to existing economic activities and routing and any other Project-related concerns.

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous Peoples — Economic Conditions	Q-197	Details on planned investments in the economic and social development of Indigenous peoples.	<p>Gazoduq has engaged potentially impacted Indigenous groups and will continue to do so throughout the duration of the Project. During ongoing consultations with potentially impacted Indigenous groups, Gazoduq will strive to find Project benefits which are appropriate to each Indigenous group.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding economic and social development and any other Project-related concerns.</p>
Indigenous Peoples — Economic Conditions	Q-198	Details on how Indigenous peoples will be informed of the calls for tenders.	See Q-197.
Indigenous Peoples — Economic Conditions	Q-199	Training of Indigenous people interested in participating in the project.	<p>Gazoduq has engaged potentially affected Indigenous groups and will continue to do so throughout the duration of the Project. During ongoing consultations with potentially impacted Indigenous groups, Gazoduq will strive to find Project benefits which are appropriate to each Indigenous group.</p> <p>For example, in an effort to provide early training and work opportunities, a sub-contractor of Gazoduq hired Indigenous people to perform environmental field surveys as part of the technical field crews. Gazoduq plans to adapt and enhance its approach to recruiting members of potentially affected Indigenous groups for future surveys.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding training and any other Project-related concerns.</p>
Indigenous Peoples — Social Conditions	Q-200	Effects of the jobs created by the project on the social life and cultural well-being of Indigenous peoples, including the social consequences of the arrival of temporary workers and limited-term jobs for the community.	<p>Gazoduq is conducting a socio-economic study of the Project.</p> <p>Gazoduq has made offers to provide funding and assistance to Indigenous groups to hire experts of their choice and conduct their own studies with regards to traditional use, impact on rights and socio-economic studies as part of the Indigenous-led, Project-related studies.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding workers, workers' camps, limited-term jobs and any other Project-related concerns.</p>
Indigenous Peoples — Social Conditions	Q-201	Effects on the well-being of Indigenous peoples resulting from environmental effects.	<p>See Q-200.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding environmental effects on well-being and any other Project-related concerns.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous Peoples — Social Conditions	Q-202	Effects of the increased demand for community services on Indigenous peoples already living in poverty.	See Q-200. Gazoduq encourages communication with designated members of the Indigenous relations team for concerns related to community services and any other Project-related concerns.
Indigenous Peoples — Social Conditions	Q-203	Concerns that the project may affect the social cohesion of members of Indigenous communities.	Gazoduq has engaged potentially impacted Indigenous groups identified by the Crown and will continue to do so throughout the duration of the Project. Gazoduq will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects. Gazoduq encourages communication with designated members of the Indigenous relations team regarding concerns that the Project may affect the social cohesion of members of Indigenous groups or any other Project-related concerns.
Indigenous Peoples — Social Conditions	Q-204	Effects on the social conditions of Indigenous peoples and how the project could contribute to their transformation, taking into account sparsely populated areas that are conducive to the exercise of Indigenous peoples rights.	See Q-200. Gazoduq encourages communication with designated members of the Indigenous relations team for concerns related to changes to social conditions and any other Project-related concerns.
Indigenous peoples — Consultation and Engagement	Q-205	Government of Canada's duty to consult with Indigenous peoples.	This falls under the Government of Canada's jurisdiction. Additional requests for information on this issue should be submitted directly to the Agency.
Indigenous peoples — Consultation and Engagement	Q-206	Details on the powers and responsibilities, affirmed or recognized, of Indigenous peoples with regard to the conduct of impact assessment.	The framework applicable to the impact assessment process for this Project is set out in the <i>Impact Assessment Act</i> , including the participation of Indigenous groups in the process.
Indigenous peoples — Consultation and Engagement	Q-207	Details on how the provisions of the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) will be considered in the consultation process.	This falls under the Government of Canada's jurisdiction. Additional requests for information on this issue should be submitted directly to the Agency.

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Consultation and Engagement	Q-208	Meaningful engagement of Indigenous peoples to obtain their free, prior and informed consent before undertaking any project-related activities.	Gazoduq has engaged potentially affected Indigenous groups and will continue to do so throughout the duration of the Project. Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating or otherwise managing Project effects.
Indigenous peoples — Consultation and Engagement	Q-209	Consideration of Indigenous peoples' individual engagement and consultation preferences throughout the assessment process, including language preferences and consultation with the broader community and not just band councils.	<p>Gazoduq will continue to adjust the nature and scope of consultation activities it performs depending on input received from Indigenous groups on how they prefer to engage in consultation activities. This includes taking into account language preferences. Gazoduq has held and will continue to hold meetings or information sessions in Indigenous groups, at the request of the Indigenous group's elected leadership and representative(s) appointed for Project consultations to allow community members to gain a better understanding of the Project. These venues also provide community members an opportunity to express any Project-related concerns. Also, Gazoduq has made offers to provide funding and will continue to provide funding for those consultation activities.</p> <p>Please note also that Gazoduq has held and will continue to hold public information sessions (open houses) available to stakeholders and Indigenous groups to gain a better understanding of the Project. These venues also provide stakeholders and Indigenous groups an opportunity to express any Project-related concerns.</p>
Indigenous peoples — Consultation and Engagement	Q-210	Clarity on the capacity funding provided by the proponent to support Indigenous peoples' participation in the consultation.	<p>Gazoduq has made offers to provide funding and will continue to provide funding to facilitate the participation of Indigenous groups in the consultation activities undertaken by Gazoduq. For example, Gazoduq has offered to provide technical assistance and capacity funding to Indigenous groups to hire experts of their choice and conduct their own studies with regards to Indigenous knowledge and land use, values and rights as part of Indigenous-led, Project-related studies.</p> <p>Please note that Gazoduq will also support applications for capacity funding filed by Indigenous groups with governmental authorities to facilitate their participation in the impact assessment process.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Consultation and Engagement	Q-211	Significant, early and ongoing mobilization of Indigenous peoples by the proponent and the Agency during all phases of the project: planning, construction, operation (including equipment maintenance) and site rehabilitation. Consultations that will provide a comprehensive list of concerns raised and will result in concrete actions to address these concerns.	<p>Gazoduq has engaged with many potentially affected Indigenous groups since the spring of 2018 and will continue to do so throughout all the phases of the Project. Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects.</p> <p>A robust and constructive consultation process is underway, potential benefits are being explored and maximized where possible, and potentially adverse effects are being mitigated. Concerns that emerge from the consultations and involvement of Indigenous groups will be documented in the Impact Statement, as will the responses and actions taken to address those concerns. Measures suggested by Indigenous groups will also be recorded in the Impact Statement and considered for implementation.</p> <p>This approach, as well as the mitigation and enhancement measures being adopted and developed for the Project, will be documented in the Impact Statement.</p>
Indigenous peoples — Consultation and Engagement	Q-212	Need to establish a detailed communication plan for all phases of the project assessment and the entire life of the project.	See Q-211.
Indigenous peoples — Consultation and Engagement	Q-213	Details on the maintenance of the proponent's consultation files, including evidence of information, correspondence and mobilization of Indigenous communities regarding the development of the project and the development of an associated consultation plan.	Gazoduq uses a record keeping system which creates a record of all communications with potentially affected Indigenous groups. A more detailed summary of communications will be included in the Impact Statement. Further, the consultation program, summarized in Section 4 of this Detailed Project Description, will also be discussed in more detail in the Impact Statement.
Indigenous peoples — Consultation and Engagement	Q-214	Details on the criteria that were used by the proponent to determine which Indigenous communities were consulted.	As described in section 4.3 of the DPD, in February 2019, Natural Resources Canada (NRCan) issued an initial list of Indigenous groups potentially impacted by the Project. In addition to the 17 groups with which Gazoduq had already shared information, this list included seven other Indigenous groups in Ontario and Québec. In May 2019, another group, Temagami First Nation, was added to the list. In October 2019, the Cree First Nation of Waswanipi was added to the list by the Agency. In November 2019, the Cree Nation of Waskaganish was added to the list by the Agency. The list now counts a total number of 27 Indigenous groups. Those 27 Indigenous groups (listed in section 4.5 of the DPD) are those that have been identified by the Agency as Indigenous groups whose Aboriginal and/or treaty rights may be adversely affected by the proposed project.

Subject	ID	Summary of Issues	Gazoduq Responses
<p>Indigenous peoples — Consultation and Engagement</p>	<p>Q-215</p>	<p>Capacity for Indigenous peoples to actively participate in the impact assessment process, with access to documents to be revised within a reasonable timeframe and for a reasonable period of time, in both official languages.</p>	<p>Gazoduq has engaged with many potentially affected Indigenous groups since the spring of 2018 and will continue to do so throughout all the phases of the Project. Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects.</p> <p>A robust and constructive consultation process is underway, details of which will be included in the Impact Statement. Gazoduq has developed a collaborative approach to involve affected Indigenous groups in decisions related to the Project. In addition, Gazoduq transmits information related to the Project in both languages, or in one of the two languages depending on the preferences of the Indigenous group. Further, Gazoduq has and will continue to consult Indigenous groups in the manner in which they prefer, as indicated through ongoing consultation efforts.</p> <p>Gazoduq has made offers to provide funding and assistance to Indigenous groups to hire experts of their choice and conduct their own studies with regards to traditional use, impact on rights and socio-economic studies as part of Indigenous-led, Project-related studies. Gazoduq encourages Indigenous groups to conduct studies and provide information to inform the Project.</p> <p>Gazoduq encourages communication with the Agency regarding its role in providing capacity funding for active participation in the impact assessment process.</p>
<p>Indigenous peoples — Consultation and Engagement</p>	<p>Q-216</p>	<p>Details on how the Agency's "Interim Guidance: Indigenous Participation in Impact Assessment" will be considered.</p>	<p>Gazoduq intends to comply with any applicable guidance provided by the Agency, as well as Section 5.3 of the Agency's "Interim Guidance: Indigenous Participation in Impact Assessment" (Interim Guidance) dated December 6, 2019. This document details the role and responsibilities of the proponent.</p>
<p>Indigenous peoples — Consultation and Engagement</p>	<p>Q-217</p>	<p>Details on the division of responsibilities between the proponent and the Crown (provincial and federal) for consultations and protection of the rights of Indigenous peoples potentially affected by the project.</p>	<p>For the purposes of this impact assessment process (federal), the roles and responsibilities of the proponent, the Crown and stakeholders are set out in the <i>Impact Assessment Act</i>. Additional requests for information on this issue should be submitted directly to the Agency.</p> <p>Gazoduq has also submitted the Project to the impact assessment and environmental review procedure provided for under the Québec Environment Quality Act, by submitting a Project Notice dated November 20, 2018. Any request for information about the Québec Government's Crown consultation activities should be submitted directly to the Québec Government.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Consultation and Engagement	Q-218	Details on the process for recruiting Indigenous partners for project development, such as hiring workers for field inventories, including measures taken to ensure the participation of individuals representing the interests of the Indigenous peoples consulted.	<p>Gazoduq has engaged potentially impacted Indigenous groups and will continue to do so throughout the duration of the Project. During ongoing consultations with potentially affected Indigenous groups, Gazoduq will strive to find Project benefits which are appropriate to each Indigenous group.</p> <p>In an effort to provide early training and work opportunities, a sub-contractor of Gazoduq hired Indigenous peoples to perform environmental field inventories as part of the technical field crews. Gazoduq plans to adapt and enhance its approach to recruiting members of potentially affected Indigenous groups for future surveys.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team for questions regarding training and any other Project-related concerns.</p>
Indigenous peoples — Consultation and Engagement	Q-219	Integration of the tools developed by the communities (organizational processes, rights impact assessment tools, information and human resources, etc.) into the consultation and impact assessment process.	Requests for information on the integration of these tools into the Agency's impact assessment process should be submitted to the Agency.
Indigenous peoples — Consultation and Engagement	Q-220	Details on the two parallel consultation processes carried out simultaneously for non-Indigenous and Indigenous populations.	<p>As per the <i>Impact Assessment Act</i> and as more fully detailed in the Practitioner's Guide to Federal Impact Assessments under the <i>Impact Assessment Act</i> and Tailored Impact Statement Guidelines Template for Designated Projects subject to the <i>Impact Assessment Act</i> and the <i>Canadian Energy Regulator Act</i>, public participation and engagement with Indigenous groups are treated separately.</p> <p>Gazoduq's consultation process with Indigenous groups currently underway is described in Section 4 of the DPD.</p> <p>Gazoduq's information and consultation process currently underway is described in Section 3 of the DPD.</p>
Indigenous peoples — Consultation and Engagement	Q-221	Distinction between consultation activities and discussions aimed at developing economic opportunities in communities.	<p>Refer to Section 4 of the DPD.</p> <p>Also, as stated in the DPD, as part of Gazoduq's information and engagement process, Gazoduq plans to discuss potential financial participation and other benefits with Indigenous groups.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Consultation and Engagement	Q-222	Concern about launching the 180-day planning phase of the impact assessment before consultation agreements are developed with Indigenous peoples.	The impact assessment process, including the 180-day planning phase is managed by the Impact Assessment Agency of Canada; any concerns regarding the process should be addressed by the Agency.
Indigenous peoples — Rights	Q-223	Impacts on the rights of Indigenous peoples protected under section 35 of the Constitution, including modern treaty rights (such as the James Bay and Northern Quebec Agreement).	<p>As per the <i>Impact Assessment Act</i>, the decision made by the Minister and Governor in Council must be based on the impact assessment report and a consideration of the effect that the designated project may have on any Indigenous group and any adverse impact that the designated project may have on the rights of the Indigenous peoples of Canada recognized and affirmed by Section 35 of the Constitution Act, 1982.</p> <p>As the proponent, Gazoduq will:</p> <ul style="list-style-type: none"> · collect information, including Indigenous knowledge, and conduct or support studies to develop an Impact Statement that meets the applicable requirements of the Tailored Impact Statement Guidelines; · engage with potentially-affected Indigenous communities to identify and address potential effects on Indigenous and treaty rights; and · incorporate considerations of valued components identified in consultation with Indigenous groups and Indigenous knowledge or studies provided by Indigenous groups, into the assessment of potential Project effects. <p>Information collected through consultations of Indigenous groups will inform the impact assessment and mitigation measures developed, and will be detailed in the Impact Statement.</p>
Indigenous peoples — Rights	Q-224	Effects on the treaty, unceded or subject to a land claim lands of Indigenous peoples, including those straddling Ontario and Quebec. Details on the size (hectares) of affected Indigenous territories, occupied and unoccupied, based on project components.	Potential effects of the Project on Indigenous groups' treaty, unceded or land claims lands of Indigenous peoples, including those straddling Ontario and Québec, will be assessed in the Impact Statement.
Indigenous peoples — Rights	Q-225	Effects on Indigenous territories where natural gas will be extracted and transported in the pipeline.	Gas extraction and existing natural gas transportation facilities up to the link to the TC Energy mainline are not part of the Gazoduq Project.

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Rights	Q-226	Effects of the conversion of unoccupied Crown land into occupied Crown land on the availability of land for use by Indigenous peoples and details of the area or percentage of traditional territories used based on the available territories.	<p>Information collected through consultations of Indigenous groups will inform the impact assessment and mitigation measures developed.</p> <p>When construction is completed, the area will be available for use again, subject to applicable laws. The exceptions are areas that will be fenced in and for which access will be restricted. Examples include compressor station and mainline block valve sites.</p>
Indigenous peoples — Rights	Q-227	Collaboration with Indigenous peoples in assessing the impacts on their rights and in choosing the preferred approach to achieve the assessment, and details on the expertise and capacity that will be available to Indigenous peoples for this purpose.	<p>Gazoduq will continue to adjust the nature and scope of consultation activities it performs depending on input received from Indigenous groups on how they prefer to engage in consultation activities.</p> <p>Gazoduq has made offers to provide funding and will continue to provide funding to facilitate the participation of Indigenous groups in the consultation activities part of Gazoduq’s information and engagement process currently underway and described in Section 4 of this DPD. For example, Gazoduq has offered to provide technical assistance and capacity funding to Indigenous groups to hire experts of their choice and conduct their own studies with regards to Indigenous knowledge and land use, values and rights as part of the Indigenous-led Project-related studies.</p> <p>Specific requests related to the expertise and capacity that will be available to Indigenous groups to facilitate their participation in the impact assessment process lead by the Agency should be submitted to the Agency.</p>
Indigenous peoples — Rights	Q-228	Clarity on the proponent’s commitment and the Crown’s commitment to mitigate and accommodate the impacts on the rights of Indigenous peoples and details of the process that will help identify and implement appropriate actions, including the review of commitments advancing reconciliation.	<p>Regarding Gazoduq’s commitment, mitigation measures that are developed in consultation with the potentially affected Indigenous groups, will be recorded in the Impact Statement and considered for implementation.</p> <p>Regarding the Crown’s commitment, any specific requests in this regard should be submitted to the Agency as this falls under the Government of Canada’s jurisdiction.</p> <p>Gazoduq encourages communication with the Crown regarding its commitment to mitigate and accommodate impacts on the rights of Indigenous peoples and clarification on the process by which appropriate measures will be identified and implemented, including consideration of reconciliation commitments.</p>
Indigenous peoples — Rights	Q-229	Clarity on the involvement of Indigenous peoples in decision-making for the granting of land access rights to the proponent.	Gazoduq encourages communication with the Crown or regulatory authorities to request clarity on the involvement of Indigenous peoples in decision-making for the granting of Crown and public land access rights to the proponent.

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Rights	Q-230	Clarity on the distinction between Indigenous communities, lands used for traditional purposes by Indigenous peoples and lands covered by a comprehensive land claim or self-government agreement.	<p>Regarding the terms used by Gazoduq, the expression “Indigenous group” is used by the Crown in its correspondence to Gazoduq in relation to consultation. The same expression is used in the <i>Impact Assessment Act</i>, for example where the act refers to consultation with “any Indigenous group that may be affected by the carrying out of the designated project” (Section 12 of the <i>Impact Assessment Act</i>). Gazoduq therefore uses that expression in its correspondence and filings to ensure consistency. However, to refer to a specific Indigenous group, Gazoduq uses the name of that Indigenous group as used on the list provided by the Crown. We note that the expression “Indigenous communities” is used in initial project description, most often to refer to the physical settlement of a specific Indigenous group.</p> <p>As the proponent, Gazoduq will:</p> <ul style="list-style-type: none"> · collect information, including Indigenous knowledge, and conduct or support studies to develop an Impact Statement that meets the applicable requirements of the Tailored Impact Statement Guidelines; · engage with potentially-affected Indigenous communities to identify and address potential effects on Indigenous and treaty rights; and · incorporate considerations of valued components identified in consultation with Indigenous groups and Indigenous knowledge or studies provided by Indigenous groups, into the assessment of potential Project effects. <p>To the extent specifically required or as a result of input received from Indigenous groups, Gazoduq will make a distinction between Indigenous groups, lands used for traditional purposes by Indigenous groups, and lands covered by a comprehensive land claim or self-government agreement in its Impact Statement.</p>
Indigenous peoples — Rights	Q-231	Details on how the proponent and the Crown will involve Indigenous peoples in decision-making throughout the life of the project.	<p>Gazoduq has engaged with many potentially affected Indigenous groups since the spring of 2018 and will continue to do so throughout all the phases of the Project. Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects.</p> <p>A robust and constructive consultation process is underway, details of which will be included in the Project Application. Further, Gazoduq has and will continue to consult Indigenous groups in the manner in which they prefer, as indicated through ongoing consultation efforts.</p> <p>Gazoduq encourages communication with the Crown regarding how it will involve Indigenous peoples in decision-making throughout the Project.</p>
Indigenous peoples — Rights	Q-232	Details on the process by which free, prior and informed consent will be obtained from Indigenous peoples.	<p>This falls under the Government of Canada’s jurisdiction. Additional requests for information on this issue should be submitted directly to the Agency.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Rights	Q-233	Details on the easements required for the pipeline and facilities so that Indigenous peoples can assess the rights to be granted should the project be approved.	During detailed design, the temporary and permanent workspaces, including access roads required for construction of the Project, will be identified and discussed with the public and Indigenous groups to ensure clarity on the purpose and use of the land.
Indigenous peoples — Knowledge	Q-234	Consideration of Indigenous knowledge in the broad sense and not only of so-called "traditional" knowledge.	<p>The approach to and outcomes of integrating Indigenous knowledge into the Impact Statement will be informed by Gazoduq’s ongoing consultations with Indigenous groups.</p> <p>Gazoduq has made offers to provide funding and assistance to potentially affected Indigenous groups to hire experts of their choice and conduct their own studies with regards to traditional use, impact on rights and socio-economic studies as part of the Indigenous-led Project related studies. Gazoduq encourages Indigenous groups to conduct and provide information, such as consideration of Indigenous knowledge in the broad sense, in these studies.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team for particular concerns regarding consideration of Indigenous knowledge and any other Project-related concerns.</p>
Indigenous peoples — Knowledge	Q-235	Details on the components of the project that were developed in collaboration with representatives of Indigenous peoples or in light of Indigenous knowledge, including details of the consultation process that led to the choice of the proposed project route. Details on how Indigenous knowledge studies will inform the impact statement and project development for each stage of the project life cycle.	The Impact Statement will provide clarity on how collaboration with representatives of Indigenous peoples or Indigenous knowledge may inform, among other things, the choice of the proposed Project route, assessment and development for each stage of the Project’s life cycle. The approach to and outcomes of integrating Indigenous knowledge to the Impact Statement will be informed by Gazoduq’s ongoing consultations with Indigenous groups.
Indigenous peoples — Knowledge	Q-236	Inability to compare Indigenous knowledge with natural science knowledge and to ensure that the two types of knowledge are mutually enriching if the species against which the effects are assessed are not the same for the proponent, legislator and Indigenous peoples.	See Q-235.
Indigenous peoples — Knowledge	Q-237	Clarity on how Indigenous knowledge will inform the establishment of acceptability thresholds for effects on valued components and cumulative effects.	See Q-235.

Subject	ID	Summary of Issues	Gazoduq Responses
<p>Indigenous peoples — Knowledge</p>	<p>Q-238</p>	<p>Details on how Indigenous peoples with expertise in environmental protection, particularly species at risk, will be involved in the studies required during the various phases of the environmental impact statement.</p>	<p>Gazoduq continues to invite Indigenous groups to develop their own Indigenous-led Project-specific study for which Indigenous knowledge, concerns, and recommendations can be collected and shared with Gazoduq for integration to the Impact Statement. To this end, Gazoduq continues to offer financial and technical support.</p> <p>Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, minimizing or mitigating negative Project impacts. In addition, dialogue established through the consultation process should establish how members of the potentially impacted Indigenous groups may participate in the various phases of the environmental impact assessment and other phases of the Project.</p>
<p>Indigenous peoples — Physical and Cultural Heritage</p>	<p>Q-239</p>	<p>Effects on Indigenous cultural heritage, including archaeology.</p>	<p>Gazoduq has engaged potentially affected Indigenous groups and will continue to do so throughout the duration of the Project. Gazoduq will continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects.</p> <p>Gazoduq has also made offers to provide funding and assistance to Indigenous groups to hire experts of their choice and conduct their own studies with regards to traditional use, impact on rights and socio-economic studies as part of the Indigenous-led Project related studies. Gazoduq encourages Indigenous groups to conduct these studies for integration into its Impact Statement.</p> <p>In addition, an archaeological potential study has been commissioned. Potential and known archaeological sites and sites of ecological importance will be described and their effects assessed in the Impact Statement. Indigenous groups will be provided with the study for their information and comments. Gazoduq will consider and integrate Indigenous knowledge, that will be received from Indigenous groups, in the Impact Statement.</p> <p>It should be noted that work in the vicinity of known archaeological sites is prohibited or restricted unless authorized by the appropriate regulatory agencies. Additionally, mitigation measures that are developed in consultation with the potentially affected Indigenous groups will also be recorded in the Impact Statement and considered for implementation.</p>
<p>Indigenous peoples — Physical and Cultural Heritage</p>	<p>Q-240</p>	<p>Need to conduct archaeological inventories in areas of archaeological potential before construction begins, to share the schedule of these exercises with Indigenous peoples and to encourage their participation. Details on the possibility of having members of Indigenous communities on site during this work.</p>	<p>An archaeological potential study has been commissioned. Potential and known archaeological sites and sites of ecological importance will be described and their effects assessed in the Impact Statement. Indigenous groups will be provided with the study for their information and comments. Gazoduq will consider and integrate Indigenous knowledge, that will be received from Indigenous groups, in the Impact Statement.</p> <p>Surveys to validate some of the findings are planned in 2020. Should Indigenous groups wish to participate in these surveys, Gazoduq would encourage communication with designated members of the Indigenous relations team.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Physical and Cultural Heritage	Q-241	Details on how the historical context, toponymy, language and all the other elements that make up a culture will be integrated into the heritage study.	Gazoduq will include the terms of reference and potential effects concerning cultural heritage for each Indigenous group in the Impact Statement.
Indigenous peoples — Physical and Cultural Heritage	Q-242	Details on visual disturbances and measures taken to limit impacts on the landscape.	<p>An extensive data collection effort was deployed to document the valued landscapes that may be crossed or affected by the Project. Potential effects of the Project on the visual environment will be assessed in the Impact Statement.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team for particular concerns regarding visual disturbances and measures taken to limit effects on the landscape and any other Project-related concerns. The feedback obtained and the data collected will be integrated in the assessment of the potential effects of the visual environment which will be presented in the Impact Statement.</p>
Indigenous peoples — Physical and Cultural Heritage	Q-243	Protection of burial sites in the preferred planning area.	Gazoduq will avoid and maintain the integrity of burial sites which are known or which are identified by Indigenous groups. Gazoduq will use known methods for the protection of burial or archaeological sites. For example, if a site is not known to Gazoduq prior to construction and is discovered during construction, work will be suspended, the site will be assessed, and appropriate mitigation measures will be determined in collaboration with the affected Indigenous group, stakeholders and applicable authorities.
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-244	Effects on traditional practices of Indigenous peoples due to increased risk of accidents and malfunctions and land encroachment.	<p>Potential effects of the Project on Indigenous groups' traditional practices will be assessed in the Impact Statement.</p> <p>Additionally, mitigation measures that are developed in consultation with the potentially impacted Indigenous groups, will also be recorded in the Impact Statement and considered for implementation.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-245	Temporary or permanent effects on the traditional practices of Indigenous peoples such as trapping, hunting, fishing, gathering (traditional plants, medicines, etc.), including the deterioration of wetlands and forests that support these practices for all phases of the project, and impacts of these effects on cultural well-being and the ability to hand down knowledge between generations.	See Q-244.
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-246	Effects of increased use of the territory by people from outside the communities on accessibility to the territory and on the components valued by Indigenous peoples.	See Q-244.
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-247	Effects on traditional practices of Indigenous peoples such as hunting on traplines and effects on family hunting and fishing territories along the proposed project route.	See Q-244.
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-248	Effects on traditional land use by future generations.	See Q-244.

Subject	ID	Summary of Issues	Gazoduq Responses
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-249	Effects on species of special interest to Indigenous peoples, but not listed as threatened or vulnerable (such as moose, beaver, bear, small game and blueberries).	<p>The initial phase of field surveys was completed in the spring and summer of 2019; survey protocols were shared with Indigenous groups and comments were solicited. The results of the surveys will be shared once an analysis has been completed. Should Indigenous groups wish to participate in additional field surveys for 2020, Gazoduq would encourage communication with designated members of the Indigenous relations team, as soon as possible.</p> <p>Effects on wildlife of interest to Indigenous groups are expected to be documented, in particular through Indigenous-led Project-related studies . If necessary, Gazoduq may consider mitigation measures.</p>
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-250	Consideration of periods of land use by Indigenous peoples in the development of construction, maintenance and rehabilitation schedules for the site.	See Q-244.
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-251	Avoidance of some preferred areas due to landscape changes and concerns about site safety or contamination of country food.	Gazoduq has engaged potentially affected Indigenous groups and will continue to do so throughout the duration of the Project. Gazoduq has and will communicate Project information and continue to solicit issues and concerns regarding the Project with a view of avoiding, mitigating, or otherwise managing Project effects. Gazoduq has and will remain open to requests from Indigenous groups for proposed route changes.
Indigenous peoples — Current Use of Lands and Resources for Traditional Purposes	Q-252	Effects on access to Indigenous peoples' land in the study corridor area.	<p>Potential effects of the Project on Indigenous peoples' access to the land will be assessed in the Impact Statement.</p> <p>Additionally, mitigation measures that are identified and developed in consultation with potentially impacted Indigenous groups, will be incorporated into the Environmental Protection Plans for the Project.</p> <p>Gazoduq encourages communication with designated members of the Indigenous relations team regarding effects on Indigenous peoples' access to land in the Study Corridor area or any other Project-related concerns.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Fish and Fish Habitat	Q-253	Effects on fish and fish habitat, including water quality, stream morphology and dynamics, disturbance, alteration or destruction of fish habitat and eggs, or fish death. This includes the alteration or destruction of sensitive habitats (spawning, breeding, etc.) in the medium and long term.	<p>Gazoduq has identified that potential effects to fish and fish habitat would be primarily attributable to construction, particularly in and around watercourse/waterbody crossings. Without mitigation, changes could occur to habitat, as well as travel and migration paths, and pose a risk of mortality. However, Gazoduq intends to implement mitigation measures during construction which are proven and effective, and crossing methods will be selected that are suited to the biophysical conditions of each watercourse/waterbody. Field surveys were conducted to characterize the aquatic habitat (ex. potential spawning grounds) at crossing points.</p> <p>Table 19-1 lists potential changes to fish and fish habitat and their potential causes (if mitigation measures were not required).</p> <p>Potential Project-related effects on fish and fish habitat will be presented in the Impact Statement. Measures to mitigate potential effects will be included in the Environmental Protection Plans.</p>
Fish and Fish Habitat	Q-254	Effects on fish mortality in the pre-construction and construction phase due to geophysical survey activities, the use of explosives and fish dragging during water pumping.	<p>To date there have been no fish mortalities related to pre-construction activities, including geophysical surveys, with the exception of one specimen which had to be preserved to be sent to provincial authorities for species confirmation.</p> <p>Table 19-1 lists potential changes to fish mortality risk during construction (if mitigation measures were not required).</p> <p>The Impact Statement will provide Project-specific effects on fish, including the potential for fish mortality due to the activities identified in this issue. Measures will be included in the Environmental Protection Plans.</p>
Fish and Fish Habitat	Q-255	Effects on fish habitat, particularly because of potential risks to the survival of plants, invertebrates and insects.	Effects on fish habitat, particularly because of potential risks to the survival of plants, invertebrates and insects. Field surveys were conducted at watercourse crossing points for the natural gas transmission line. Potential Project-related effects on fish habitat (including bivalves and aquatic plants) will be addressed in the Impact Statement and included in the Environmental Protection Plans.
Fish and Fish Habitat	Q-256	Effects on fish health, diet and offspring.	<p>See Q-253.</p> <p>Potential Project-related effects, including the elements in this issue, will be assessed in the Impact Statement.</p>
Fish and Fish Habitat	Q-257	Effects on fish population movement and migration patterns.	<p>See Q-253.</p> <p>Potential Project-related effects on fish, including their movement and migration patterns, will be assessed in the Impact Statement.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Fish and Fish Habitat	Q-258	Effects on fish-free circulation during the construction phase, depending on the watercourse crossing methods chosen or the potential culverts to be used.	<p>Structures designed to isolate the work area, when an isolated trenching method is used, could temporarily disturb fish movement patterns. The presence of suspended matter in the water could also contribute to changes in the movement and migration of fish.</p> <p>The selected crossing method and characteristics of the watercourse will determine if a fish salvage or passage will be required. Trenchless crossing methods or work executed in dry or frozen to bottom watercourses would not require any provisions for fish salvage or passage.</p> <p>Otherwise, work in watercourses (isolated trench crossing methods) would require a fish salvage, as it is typically the case in similar situations on other projects. A fish salvage involves collecting fish from the isolated section of the watercourse and relocating them upstream or downstream of this section, prior to the start of the work. Additional mitigation measures would also be applied, such as screens for water pump intakes. Such measures will be included in the Environmental Protection Plans provided in the Impact Statement.</p>
Fish and Fish Habitat	Q-259	Effects of the spread of invasive aquatic species.	Field surveys were conducted at watercourse crossing points with the natural gas transmission line, which involved the documentation of aquatic invasive species. Potential Project-related effects on the spread of aquatic invasive species will be assessed in the Impact Statement. If potential issues are identified in the assessment, mitigation measures will be included in the Environmental Protection Plans.
Fish and Fish Habitat	Q-260	Effects on aquatic wildlife, including Atlantic salmon, Greenland halibut and polar cod, due to project activities that alter, disrupt or destroy their habitat, including marine transportation in the Saguenay, the Saint-Laurent and its Gulf.	As mentioned, the Project will not take place in a marine environment and therefore potential effects on aquatic wildlife in the Saguenay River, the St. Lawrence River and the Gulf of St. Lawrence will not be considered in the Impact Statement.
Fish and Fish Habitat	Q-261	Details on the number of watercourses affected their locations and the effects on the fauna and flora present in these watercourses, including the Saint-Maurice River upstream of the Rapide Chaudière.	A preliminary compilation of the number of watercourses in the Preferred Planning Area is presented in Appendix M of this Detailed Project Description. The Impact Statement will provide the requested details on the number and locations of watercourses and the potential effects on the fauna and flora present in the watercourses (including the St-Maurice River) at the crossing points with the natural gas transmission line. Field data collected at the crossing points will be provided in the technical data report (TDR) on fish and fish habitat appended to the Impact Statement.
Fish and Fish Habitat	Q-262	Clarification of the concepts of "temporary" and "longer-term" duration of anticipated changes and degradations to the aquatic environment as described in the initial project description.	'Temporary' refers to effects that may occur only during construction activities. 'Longer term' effects may remain, for a certain period, even after the construction activity is complete. The actual length of time is variable and will be dependent on the activity and location.

Subject	ID	Summary of Issues	Gazoduq Responses
Fish and Fish Habitat	Q-263	Details on the reversibility or non-reversibility of predicted changes to the aquatic environment.	The effects of changes to the aquatic environment on fish and fish habitat will be assessed in the Impact Statement. This assessment will include the reversibility or non-reversibility of the predicted changes.
Fish and Fish Habitat	Q-264	Details on the planned measures and time scale to control sediment yields to watercourses during watercourse crossing works, as well as details on the planned measures in the event of contamination of watercourses as a result of abnormal sediment yields.	<p>The selected crossing method and characteristics of the watercourse will influence potential sediment input. The isolated trench crossing method is used to limit sediment input to watercourses (compared to open cut).</p> <p>An erosion management plan that proposes standard measures to limit sediment input to watercourses will be provided in the Environmental Protection Plans. The specific measures to be implemented are typically selected in the field depending on actual site conditions and watercourse characteristics at the time of crossing construction.</p> <p>Furthermore, avoiding work during periods of extreme flooding or precipitation limits the risk of abnormal sediment input and erosion. Sediment management measures and prevention of further erosion in anticipation of extreme weather events would be implemented to control the risk of abnormal sediment input.</p>
Public Consultation Process	Q-265	Ability for the public to actively participate in the impact assessment process, including those who can only do so in one of the two official languages.	Gazoduq strives to accommodate all stakeholders in their language of choice, but cannot speak for the Agency, which is responsible for the impact assessment process.
Public Consultation Process	Q-266	Details on the proponent's planned consultation activities for the general public (other than landowners, residents and users in the vicinity of the proposed project).	<p>In winter 2020, broad-based thematic public consultation activities will take place in all potentially affected regions. The purpose of these consultations will be to present the results of the studies conducted to-date and to gather comments and proposals from the general public in order to improve the Project.</p> <p>Additionally, Gazoduq provides ongoing Project information on its website and through its newsletters. Questions and comments can be provided via the Gazoduq website or by calling Gazoduq (the contact number is available on the website): FR: https://gazoduq.com/fr/a-votre-ecoute/nous-joindre/ ENG: https://gazoduq.com/en/listening-to-your-needs/contact/</p>
Public Consultation Process	Q-267	Public hearings held by the Agency.	Gazoduq will participate in public hearings held by the Agency and is awaiting further details on the process.
Public Consultation Process	Q-268	Clarification of the definition, role and issues of each "stakeholder", including organizations included in socio-economic groups and agricultural and forestry producers.	Preliminary lists of stakeholders and issues are included in Section 3, Appendix A, and Appendix B of this Detailed Project Description. Further details and updated information will be provided in the Impact Statement.

Subject	ID	Summary of Issues	Gazoduq Responses
Public Consultation Process	Q-269	Non-Indigenous consultation approach, similar to what has been developed for Indigenous people.	In Section 3 of this Detailed Project Description, Gazoduq describes its approach to information sharing and consultation as well as its evolving process for identifying stakeholders. Additional information on its approach to and objectives for consultation, which aligns with its core values, will be provided in the Impact Statement. It is also updated regularly on Gazoduq’s website.
Public Consultation Process	Q-270	Concerns about the length and method of announcing public comment periods, including the late public notification of the comment period on the initial project description. Questioning on the clarity of the objectives of the public consultation and the relevance of the reference documents provided.	Timing and methods of announcing public consultation periods, as well as the objectives of public consultation, are developed and administered by the Agency.
Public Consultation Process	Q-271	Concerns about the impact of two separate review processes for the pipeline and the liquefaction and marine export terminal facility on the effectiveness of public participation, including consideration of consultation fatigue.	<p>The Gazoduq Project and GNLQ’s Énergie Saguenay project are two distinct projects which are subject to distinct regulatory processes, as determined by the applicable regulatory agencies. Please note that the project description of a designated project regarding GNLQ’s Énergie Saguenay project was submitted in November 2015 to responsible authorities and the assessment of the Énergie Saguenay project is now well advanced.</p> <p>Gazoduq takes note of the concerns raised in relation to consultation fatigue. Gazoduq welcomes comments on measures that could be put in place to further ease the process for Indigenous groups while at the same time ensuring that the impact assessment process is not impaired.</p>
Public Consultation Process	Q-272	Easy access to the Canadian Impact Assessment Registry (the Registry) for the public, including the need for social media authentication, and comment postings format.	The Impact Assessment Agency of Canada is responsible for the Canadian Impact Assessment Registry. Gazoduq has no control over the Agency’s platform. As applicable and practical, Gazoduq will provide links to Agency information through its website, newsletters and written communications with Indigenous groups and stakeholders.
Public Consultation Process	Q-273	Communication approach with the public, including cottagers and forest workers, during the construction phase.	A specific communication strategy will be established during construction to inform the public and relevant stakeholders, including cottagers and forest workers. Gazoduq’s planned public engagement activities are outlined in Section 3.8 of this Detailed Project Description and will be provided in the Impact Statement.

Subject	ID	Summary of Issues	Gazoduq Responses
Purpose of and Need for the Project	Q-274	Rationale of the project in relation to social acceptability and the needs of society.	<p>In this Detailed Project Description, Gazoduq provides a high-level description of the purpose and major benefits of the Project. As indicated in Section 7, the Project represents an approximate \$5 billion dollar investment by Gazoduq and as such, is expected to create significant economic benefits, including job creation and various sources of additional revenue for Québec, Ontario, and Canada. Job requirements for the Project, as well as its predicted economic benefits, will be reflected in the third party socio-economic study that will be provided with the Impact Statement.</p> <p>Gazoduq also envisions that its Project represents an opportunity for Québec and Ontario to play a leading role in the fight against global climate change. Its business vision includes a significant contribution in the reduction of GHG emissions at the global level by replacing higher emitting sources of energy such as coal and fuel oil.</p>
Purpose of and Need for the Project	Q-275	Rationale of the project in relation to its potential effects on ecosystems.	<p>As described in Section H.2 of this Detailed Project Description, public safety and environmental stewardship are top of mind and priority for Gazoduq - goals that are being reflected in the Project. For example, the Project is being designed, built and operated with a focus on managing, mitigating and reducing effects and risks as per best industry practices. Public safety and environmental measures are being incorporated into the design to help prevent the potential for accidents and malfunctions, including the unintended release of natural gas. And the most recent standards available for the design and construction of natural gas transmission lines in Canada (i.e., CSA Z662-19) are being used for the Project, as are the most current practices for quality assurance, environmental risk mitigation, and operations management. This approach is expected to meaningfully reduce potential effects of the Project on ecosystems.</p>
Purpose of and Need for the Project	Q-276	Rationale of the project in relation to energy demand and the climate impacts of that demand.	<p>The Project is needed to provide GNLQ's Énergie Saguenay LNG project with a long-term supply of natural gas sourced exclusively from Western Canada, at a competitive price. As indicated in Section 7 of this Detailed Project Description, the Project is designed to be compatible with provincial, Canadian, and international energy and climate policies, as it is anticipated to facilitate an energy transition using natural gas, away from higher emitting sources of energy (e.g., coal, fuel oil, and diesel) currently used in international markets and locally in northern Ontario and Québec. This transition is expected to help support the fight against world-wide climate change by reducing global GHG emissions in international markets. It could also respond, in some cases, to specific needs in Québec and northern Ontario, also by offering potential users a lower emitting energy source and thus supporting the fight against climate change.</p>

Subject	ID	Summary of Issues	Gazoduq Responses
Purpose of and Need for the Project	Q-277	Rationale of the project in the context of the current climate crisis, efforts to combat climate change and the need for a transition to green and renewable energy, including the validation of the proponent's assumption that gas could replace more polluting energy. Consideration of the possibility that international markets will significantly reduce their demand for fossil fuels in the coming years.	See Q-276.
Purpose of and Need for the Project	Q-278	Rationale of the project and its viability in relation to an assessment of the expected economic benefits and environmental cost, including long-term cost.	See Q-276. As indicated in Section 7 of this Detailed Project Description, the Project represents a \$5 billion dollar investment and will create significant economic benefits, including job creation and various sources of additional revenue for Québec, Ontario, and Canada. Gazoduq intends to develop long-term relationships with local and Indigenous groups along the natural gas transmission line and create mutually beneficial business partnerships in support of the Project throughout its operating life
Purpose of and Need for the Project	Q-279	Rationale of the project and its viability in relation to natural gas demand, including an assessment of global natural gas demand during the project's operating years (2024 to 2049). Consideration of the potential context of a global decline in natural gas demand and the decline in renewable energy prices.	A third-party study is being conducted to assess global LNG markets. Another third-party consultant was commissioned to evaluate domestic local distribution company (LDC) markets accessible from the Project. These studies will be provided with the Impact Statement.
Purpose of and Need for the Project	Q-280	Use of renewable energy to make fossil energy more accessible.	As stated in Section 23 of this Detailed Project Description, Gazoduq aims to reduce GHG emissions through effective design. The feasibility of using electric power drive alternatives for compressor stations turbines in Québec is currently being evaluated.
Purpose of and Need for the Project	Q-281	Rationale of the project in relation to a questioning on the need to build a pipeline in the east of the country considering the proximity of natural gas extraction sites in Western Canada to the Pacific Coast and Asian markets.	The Project is designed to provide its primary customer GNLQ's Énergie Saguenay LNG project with a long-term supply of natural gas. The selection of the Énergie Saguenay site was made by GNLQ. Accordingly, questions regarding the rationale for site selection cannot be answered by Gazoduq. The Project will be an open access natural gas transmission line that could also serve local distribution companies in northern Ontario and Quebec.
Purpose of and Need for the Project	Q-282	Clarity and justification of the amount of hydroelectric energy used by the liquefaction facility.	Gazoduq will transport natural gas from an interconnection with the TC Energy mainline near Ramore, Ontario to GNLQ's Énergie Saguenay project near Saguenay, Québec. Accordingly Gazoduq does not and will not have information enabling it to comment on the amount of

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			hydroelectric energy used by the liquefaction facility, as this is outside the scope of the applied-for Project.
Purpose of and Need for the Project	Q-283	Clarity on the calculation in the assessment of global natural gas demand during the project's operating years (2024 to 2049).	A third-party study is being conducted to evaluate global natural gas (LNG) markets.
Human Health and Well-Being	Q-284	Effects on human health (physical and psychological) and the well-being of the local population due to the implementation of this project.	Potential Project-related effects on human health and well-being will be assessed in the third party socio-economic study. Noise mitigation measures will be incorporated into the Environmental Protection Plans.
Human Health and Well-Being	Q-285	Effects on human receptors due to construction activities that will cause disturbance such as noise and vibration and changes in air quality, water quality and quality of country food.	The potential effects of construction activities on human health will be assessed in the third party socio-economic study. Mitigation measures for noise, air quality, water quality and country food quality, amongst others, will be incorporated into the Environmental Protection Plans, as applicable and as required.
Human Health and Well-Being	Q-286	Effects on human health, including noise from blasting, machinery use and increased traffic, based on schedule, time and duration of construction.	Gazoduq has identified that the use of heavy equipment, the movement of vehicles, and blasting work could be the primary sources of temporary ambient noise increases during the construction phase of the Project. The potential effects of construction noise on human health will be assessed in the third party socio-economic study. Noise mitigation measures will be incorporated into the Environmental Protection Plans.
Human Health and Well-Being	Q-287	Effects of project-related activities on human health, including hydraulic fracturing.	Gazoduq will transport natural gas from an interconnection with the TC Energy mainline near Ramore, Ontario to GNLQ's Énergie Saguenay project near Saguenay, Québec. Accordingly Gazoduq does not and will not have information enabling it to comment on hydraulic fracturing, as it is outside the scope of the applied-for Project.
Human Health and Well-Being	Q-288	Effects on human health attributable to emissions of sulphur dioxide, nitrogen oxides and particulate matter.	An atmospheric emissions study is currently underway and will be presented in the Impact Statement. This study will cover the construction and operations phases of the Project. In addition, the potential effects of Project-related air emissions on human health will be assessed in the socio-economic study that is being prepared by another third party consultant. The socio-economic study will also be appended to the Impact Statement. Measures to mitigate effects will be included in the Environmental Protection Plans, as required.
Human Health and Well-Being	Q-289	Effects of socio-economic impacts on human health associated with temporary worker camps.	The potential effects of temporary worker camps, including on human health, will be assessed in the third party socio-economic study. If effects are identified in the assessment, appropriate mitigation measures will be developed and included in the Impact Statement, as required.

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Human Health and Well-Being	Q-290	Effects of gender-based violence, spread of sexually transmitted infections and human trafficking due to the influx of male workers into communities.	See Q-289.
Human Health and Well-Being	Q-291	Details on the emission of odours perceived by humans and animals from natural gas.	The Project will transport natural gas, which is colourless and odourless.
Soils, Geology, Geochemistry and Geological Hazards	Q-292	Effects on soils, including loss of quality, quantity, compaction and erosion, taking into account, among other things, the shallowness of soils in the proposed project area.	The Environmental Protection Plans will include an erosion control risk management plan containing a suite of sediment and erosion control measures. Follow-up monitoring programs will also be outlined.
Soils, Geology, Geochemistry and Geological Hazards	Q-293	Effects on soil stability, increased erosion and soil chemistry.	See Q-292.
Soils, Geology, Geochemistry and Geological Hazards	Q-294	Effects of seismic events, landslides and terrain hazards on project activities. Identification of risk areas for geological hazards.	Effects of seismic events, landslides and other geohazards likely to affect the Project will be dealt using a standard approach to risks assessment and risk mitigation during detailed design. This may include, aligned with best practices: avoiding the risk; managing or reducing its likelihood; or managing its consequence (mitigation measures). Geological hazards risk areas will be identified using several methods such as geomorphology, GIS risk mapping, geotechnical and geophysical investigations.
Soils, Geology, Geochemistry and Geological Hazards	Q-295	Effects on geological and seismic hazards due to project-related activities such as hydraulic fracturing for natural gas extraction.	Gas extraction and existing natural gas transportation facilities up to the link to the TC Energy mainline are not part of the Gazoduq Project.
Soils, Geology, Geochemistry and Geological Hazards	Q-296	Consideration of the characteristics of the soil crossed by the pipeline, including the type of soil (e.g., clay soils in Abitibi), its condition (e.g., frozen ground) and its location (e.g., under watercourses) to assess the effects of a methane leak on the soil and environmental integrity along the proposed project route.	The soils that are likely to be encountered along the natural gas transmission line will be characterized in the Impact Statement. Potential Project-related effects, including from accidents and malfunctions, will be assessed and mitigation measures provided in the Environmental Protection Plans for the Project.

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Soils, Geology, Geochemistry and Geological Hazards	Q-297	Clarity on the nature of formations and surface deposits and the depth to which the pipeline will be put in place.	Geotechnical analysis of the route has identified the likely terrain and materials to be encountered along the route, as well as the depth of cover, and will be included in the Impact Statement.
Soils, Geology, Geochemistry and Geological Hazards	Q-298	Clarity on the codes or good practice guides that will be used when analyzing the effects of earthquakes on the pipeline.	The CSA Z662-19 standard will be followed. It provides very robust design criteria for natural gas transmission lines and requires that the design take into account stresses caused by seismic activities including displacement, acceleration, subsidence, landslides and fault movement. Industry best practices such as the PRCI's (Pipeline Research Council International) Pipeline Seismic Design and Assessment Guideline will also be used when analyzing the effects of seismic activities during detailed design.
Soils, Geology, Geochemistry and Geological Hazards	Q-299	Clarity on the underground vibrations caused by the transportation of natural gas in the pipeline.	Typical maximum velocity of the gas inside the transmission line is approximately 7.5 metres per second. The gas flows in a very smooth and uniform manner to maintain a high level of efficiency. As the pipe is buried 0.9 to 1.5 metres below ground surface, there is no detectable vibration.
Structure, Site, Things of Historical, Archaeological, Paleontological or Architectural Significance	Q-300	Effects on archaeological sites and sites of potential and known ecological and historical importance of the region, including the Fur Route and the Dassera-Kanasuta area.	An archaeological potential study has been commissioned. Potential and known archaeological sites and sites of cultural importance will be described in the Impact Statement. Indigenous groups will be provided with the study for their information and comments.
Alternatives to the Project and Alternative Means of Carrying Out the Project	Q-301	Potential alternatives to the project or its implementation.	A high level discussion of potential alternatives to the Project is provided in Section 12 of this Detailed Project Description. The Impact Statement will include a detailed discussion of the potential alternatives to the Project.

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Alternatives to the Project and Alternative Means of Carrying Out the Project	Q-302	Consideration of transportation of alternative sources of green rather than fossil energy, such as ammonia rather than fossil fuels, taking into account potential uses of by-products and development of the ammonia facility.	This Project seeks approval to build a new natural gas transmission line linking the existing TC Energy (previously TransCanada Corporation) mainline in northeastern Ontario to a future natural gas liquefaction, storage and export facility in Saguenay, Québec (Énergie Saguenay). Gazoduq cannot consider transporting other sources of energy, as the Project's primary customer is a proposed LNG facility that can only liquify natural gas.
Alternatives to the Project and Alternative Means of Carrying Out the Project	Q-303	Options or scenarios in which the purpose of the Énergie Saguenay project would be changed.	See Q-101.
Alternatives to the Project and Alternative Means of Carrying Out the Project	Q-304	Economic variants that include implementing the project using natural gas from the United States rather than from Western Canada.	A third-party study is being conducted to prepare a report on future natural gas supply to the Project from Western Canada. Gas supply from U.S. sources is not presently contemplated for the Project.
Alternatives to the Project and Alternative Means of Carrying Out the Project	Q-305	Assessment of all technically and economically feasible options, including the use of best available technologies and alternatives for the use of electric turbines for compressor stations.	Gazoduq has evaluated technically and economically feasible alternatives for delivering long term, competitively priced gas supplies to GNLQ's Énergie Saguenay project. These include Gazoduq's early application of best available technologies and its ongoing evaluation of electric turbines for the proposed compressor stations. Refer to Section 12, Alternatives and Alternative Means, of this Detailed Project Description. Additional information will be provided in the Impact Statement.
Alternatives to the Project and Alternative Means of Carrying Out the Project	Q-306	Clarity on the advantages and disadvantages of a pipeline for transporting natural gas, including in terms of safety, accidents and malfunctions.	Public safety and environmental stewardship are top of mind and priority for Gazoduq. In view of these priorities, public safety and environmental protection measures are being incorporated into the design of the Project to help prevent the potential for accidents, malfunctions and the unintended release of natural gas. Transmission lines have been the safest and most reliable means to transport natural gas to their market. High-level information is provided in Section H.2 of this Detailed Project Description, in accordance with Annex III of the TIS Guidelines. Additional information will be provided throughout the Impact Statement, including a project-specific technological risk assessment.

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<p>Alternatives to the Project and Alternative Means of Carrying Out the Project</p>	<p>Q-307</p>	<p>Clarity on the proponent’s criteria for determining the proposed project path to minimize the environmental impact, including bedrock, local population, wildlife and ability to respond in the event of accidents and malfunctions.</p>	<p>As described in Section 13 of this Detailed Project Description, Gazoduq has undertaken an exhaustive and iterative route selection process to determine a preferred route for the transmission line from an environmental, social, economic and technical perspective.</p> <p>Gazoduq works in stages to define the preferred route, in accordance with feedback from stakeholders, Indigenous groups, landowners, regulatory authorities, as well as technical and scientific studies, Indigenous engagement and results of Indigenous-led Project-related studies. The ultimate objective is to achieve a route that strives to minimize impact on the environment, stakeholders, Indigenous groups, and landowners. This process will be described in detail in the Impact Statement.</p>
<p>Alternatives to the Project and Alternative Means of Carrying Out the Project</p>	<p>Q-308</p>	<p>Consideration of alternative route options that avoid streams and wetlands, including those considered in the ongoing environmental assessment for the Énergie Saguenay project.</p>	<p>As described in Section 13 of this Detailed Project Description, Gazoduq has undertaken an exhaustive and iterative route selection process to determine a preferred route for the transmission line from an environmental, social, economic and technical perspective. Current publicly-available data within or in proximity to the Gazoduq study area will be considered.</p> <p>Alternate alignment options that were analyzed will be presented in the Impact Statement with a discussion on the selection criteria, which includes reducing watercourse crossings and wetlands.</p>
<p>Alternatives to the Project and Alternative Means of Carrying Out the Project</p>	<p>Q-309</p>	<p>Alternative routes options avoiding private land owned by farmers and foresters in determining the selected route, including the technical and regulatory reasons that prevent this avoidance, if any, particularly for the Domaine-du-Roy and Lac-St-Jean-Est Regional Municipality Counties.</p>	<p>As described in Section 13 of this Detailed Project Description, Gazoduq has undertaken an exhaustive and iterative route selection process to determine a preferred route for the transmission line from an environmental, social, economic and technical perspective.</p> <p>Gazoduq works in stages to define the final preferred route, in accordance with feedback from stakeholders, Indigenous groups, landowners, regulatory authorities, technical and scientific studies, and Indigenous-led, Project-related studies. The ultimate objective is to achieve a route that strives to minimize impact on the environment, stakeholders, Indigenous groups, and landowners. This process will be described in detail in the Impact Statement.</p> <p>Concerning the Domaine-du-Roy and Lac-Saint-Jean Est RCMS, discussions with l’Union des producteurs agricoles (UPA) and the Syndicat des Producteurs de Bleuets du Québec (SPBQ) on alternative routes are underway. Additionally, through ongoing consultation with Indigenous groups, Gazoduq encourages communications with designated members of its Indigenous Relations team on project variants and alternatives as well as any other Project-related concern.</p>

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<p>Alternatives to the Project and Alternative Means of Carrying Out the Project</p>	<p>Q-310</p>	<p>Alternative route option through the regions of Lebel-sur-Quévillon and Chapais-Chibougamau, which already include existing infrastructure and industries that can benefit from it.</p>	<p>As described in Section 13 of this Detailed Project Description, Gazoduq has undertaken an exhaustive and iterative route selection process to determine a preferred route for the transmission line from an environmental, social, economic and technical perspective. In the early stages of the Project, Gazoduq identified and evaluated various alternative alignments.</p> <p>The suggested route through the Lebel-sur-Quévillon and Chapais-Chibougamau regions would result in additional length of corridor of 50 km to 80 km and associated incremental environmental effects, including but not limited to from the requirement for an additional compressor station .</p>