

# LNG Canada

## 2020 Q4 Social Management Roundtable / CLISMP Update



March 26, 2021

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## Abbreviations

%	percent
ADR	average daily rate
BC	British Columbia
BCEHS	BC Emergency Health Services
BCNREB	BC Northern Real Estate Board
CDC	Community Development Centre
CGL	Coastal GasLink
CLISMP	Community-Level Infrastructure and Services Management Plan
CMHC	Canadian Mortgage and Housing Corporation
CMSD	Coast Mountain School District
CMTN	Coastal Mountain College
COT	City of Terrace
CVL	Cedar Valley Lodge
DOK	District of Kitimat
ECE	Early Childhood Educator
ER	emergency room
EWR	Extreme Weather Response
FID	final investment decision
FMOT	Facility Management Outbreak Team
HRVA	Hazard, Risk and Vulnerability Analysis
HSDA	Health Service Delivery Area
JFJV	JGC-Fluor BC LNG Joint Venture (Prime Contractor)
KFAS	Kitimat Fire and Ambulance Service

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KGH	Kitimat General Hospital
KRS	Ksan Residence and Shelter
KVES	Kitimaat Valley Education Society
KVI	Kitimat Valley Institute
LNG	liquified natural gas
LNGC	LNG Canada; the Project
LOA	Living Out Allowance
m <sup>3</sup>	cubic metres
M	Million
MMH	Mills Memorial Hospital
MOF	Material Offloading Facility
MOH	Ministry of Health
MOTI	Ministry of Transportation and Infrastructure
MPDS	Medical Priority Dispatch System
MVIs	Motor Vehicle Incidents
NHA	Northern Health Authority
NRS	Non-Resident Support
OFA	Occupational First Aid
OOSC	Out of School Care
PCR	Polymerase chain reaction
PRC	Project Resource Centre
RCMP	Royal Canadian Mounted Police
RDKS	Regional District of Kitimat-Stikine
SMR	Social Management Roundtable
SDOH	Social Determinants of Health
TFD	Terrace Fire Department

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TH	Transition House (Terrace)
TIS	Traffic Impact Study
TSW	Tamitik Status of Women
UNBC	University of Northern British Columbia
WCB	Workers' Compensation Board
YOY	year-over-year
YXT	Northwest Regional Airport



# 1. Executive Summary

LNG Canada is committed to managing socio-economic effects associated with the construction and operation of its liquefied natural gas (LNG) facility and marine terminal (the Project). LNG Canada began implementation of its Community Level Infrastructure & Services Management Plan (CLISMP) on April 1, 2019. The CLISMP entails social management plans that outline actions to mitigate the Project's adverse direct effects on community level infrastructure and services, community engagement mechanisms, socio-economic monitoring, and reporting over the duration of construction and 2-years into operations. CLISMP scope focuses on communities near the LNG Plant footprint, namely: District of Kitimat, City of Terrace, Regional District of Kitimat Stikine, Haisla First Nation, Kitselas First Nation and Kitsumkalum First Nation. When considering potential impacts to community health, primarily diet and nutrition, the CLISMP scope is broadened to also consider nearby Indigenous Groups: Gitxaala Nation, Gitga'at First Nation, Lax Kw'alaams Band and Metlakatla First Nation.

## 1.1. Summary of Project Effects

During November 2020, 4,105 people were employed to work on the LNG Canada Project in Kitimat with an average of 2,249 non-local workers staying at workforce accommodation centres while on rotation in Kitimat and 760 workers employed from local communities. Table 1 summarizes the direct Project effects on community infrastructure and services measured in 2020 Q3 & Q4 and evaluates the effectiveness of mitigations. Overall, the Project had limited direct impact on community level infrastructure and services during the second half of 2020, apart from waste volumes sent to the Forceman Ridge waste management facility, which are observed to be contributing to the decline in remaining available capacity. Induced effects resulting from increased economic activity and population continue to be felt in surrounding communities, most notably increasing demand for non-market housing services, primarily attributed to high rental costs and less available rental housing stock. The continual effects of the COVID-19 pandemic and the related lockdowns across British Columbia in 2020 have also played a significant role in changing demand for infrastructure and services in the region.

During Q4 2020 (and early into Q1 2021) from November 29, 2020 to January 11, 2021, the LNG Canada Project experienced two COVID-19 outbreaks at the Project site with a total of 72 confirmed COVID-19 positive cases. The LNG Canada Project worked closely with Northern Health to contain the outbreaks and to lessen the draw down on public resources by internalizing public health and health care services to the extent possible. All 72 individuals have recovered. On December 29, the Provincial Health Officer issued an Industrial Projects Restart Order, requiring five major industrial Projects in Northern British Columbia, including LNG Canada Project, to ramp up more slowly over the month of January to reduce the risk of further COVID-19 cases in the Northern Health Region. The Project subsequently submitted a plan to Northern Health and the Provincial Health Officer to address this order. The plan was approved in early February 2021 to proceed with a staged and cautious restart through to the end of March 2021. The Project has continued to take district actions in response to COVID-19 in the second half of 2020, including continuous enhancement of COVID-19 protocols on site and at workforce accommodations, increased staffing of medical and non-medical (Personal Care Attendants) personnel, on-site COVID-19 test swab collection, and increased medical grade oxygen supplies. In early 2021 the Project began a mandatory COVID-19 rapid screening program for workers





operated through charter flight hubs, while policy was implemented to restrict non-local workers from leaving the Project site and other work areas.

**Table 1 Summary of Direct Project Effects July—December 2020 (2020 Q3 & Q4)**

Social Impact Category	Measurable changes	Effectiveness of Mitigations
Housing & Accommodations	2,427 non-local Project workers were accommodated at dedicated workforce accommodations in November with 93% of workers housed onsite at Cedar Valley Lodge. The remaining 7% of non-local Project workers were housed at open lodges in Kitimat. Also, during Q4 2020 a peak of 54 relocated Project employees were living in Kitimat in company-provided housing with 28 accompanying school-aged children	By prioritizing hiring from the local area, providing housing for non-local workers in open lodges and the Cedar Valley Lodge, providing company housing for relocated Project employees with family, and not paying living out allowances to the workforce, the Project has limited demand on market housing. As of December 2020, the Project was only using Cedar Valley Lodge to house the workforce, and not using any of the open lodges in Kitimat
Community Health	There were 44 workplace injuries and illnesses (13 occupational, 31 non-occupational) requiring treatment in local hospitals in Q4, compared to 45 in Q3 (13 occupational, 32 non-occupational). This is approximately 1.4% of the ER visits to Kitimat General Hospital in 2020 Q3 and Q4.  The Project met frequently with health authorities to establish and implement COVID-19 prevention and containment protocols. The Project worked closely with Northern Health to contain the two COVID-19 outbreaks experienced in Q4 2020 and to minimize the draw down on public resources.	By providing medical services at the Project site, effectively implementing preventive COVID-19 protocols, providing on-site COVID-19 swabbing (as directed by health authorities), increasing staff of medical professionals and non-medical Personal Care Attendants on-site, and regular communication and coordination with health officials, the Project has limited direct demand on local medical services.
Air Traffic	In 2020 Q3, 7.7% of average commercial airport traffic was directly attributable to the Project. This increased to 9.4% in 2020 Q4, while the overall volume of commercial aviation passengers decreased for this period due to COVID-19.	By increasing the use of chartered flights for ~70% of the workforce in the second half of 2020, Project direct effects on YXT commercial flights were limited.
Road Traffic	During 2020 Q3 approximately 0.4% of overall road traffic on Hwy 37 (north of Kitimat) was directly attributable to the Project movement of workers via shuttle busses, with additional road use associated with delivery of materials and equipment. This increased slightly to 0.7% in 2020 Q4.	By transporting workers to and from the airport, open lodges and Project site on company-provided shuttles, establishing Park & Ride lots and enforcing shuttle transit for local workers, the Project has limited the use of personal vehicles on local roads.





**Table 1 Summary of Direct Project Effects July—December 2020 (2020 Q3 & Q4)**

Social Impact Category	Measurable changes	Effectiveness of Mitigations
Emergency Response Services	In 2020 Q4, 2.8% of KFAS calls and 0.3% of RCMP calls were directly attributable to the Project, compared to 1.1% of KFAS calls and 0.6% of RCMP calls in 2020 Q3. A total of 10 incidents required RCMP response over the 2020 Q3 & Q4 period. There were 22 ambulance service calls to address Project workforce needs in Q3 & Q4, and one fire department call or medical evacuation required for 2020 Q3 (none reported for Q4).	By implementing the workers code of conduct and cultural awareness training, Emergency Response Plans, the Safer Together Program, and regularly engaging with RCMP and First Responders, the Project has limited direct demand for local emergency services.
Community Amenities	There were no adverse changes in the available service capacity of community amenities providers attributable to the Project.	By providing recreational facilities in Sitka Lodge, Sitka Annex 2, Crossroads Lodge and Cedar Valley Lodge, the Project is limiting direct demand on community amenities.
Education	28 school age children relocated to the area accompanying Project employees in Q4 2020 (compared to 28 children in Q3 2020), with no notable impact on educational enrollment rates.	By limiting the number of employees relocated to Kitimat with accompanying family, Project direct effects on childcare facilities and education programs is minimized.
Utilities	In 2020 Q4, 48% of waste disposed at the RDKS Forceman Ridge waste management facility was directly attributed to the Project (compared to 49% in Q3 2020). The Project's solid waste disposal has contributed to the decline in available capacity of the Forceman Ridge facility. As a result of increased waste volumes received in the past year, the projected facility lifespan of 100 years (as of 2018) was adjusted downwards to 95 years (as of end of 2020). No Project waste was disposed at the Kitimat municipal landfill in 2020 Q4.	By implementing the Waste Management Plan (solid waste, wastewater), the Project has limited direct demand on municipal utilities. The Project is working directly with Forceman Ridge to plan for future anticipated waste volumes.



Available socio-economic data for Q3–Q4 2020 indicates that the Project has managed its direct demand on community level infrastructure and services. While no adverse effects directly attributable to Project activities have been observed for this time period, the increase in out of service area solid waste directed to the Forceman Ridge facility is being closely monitored by both the Project and RDKS to ensure adequate planning and capacity considerations are addressed. As Project mitigations are seen to be effective, there are no adaptive management considerations for this period. Adaptive management is a cycle in which the effectiveness of mitigation measures is evaluated based on monitoring results, and adjusted if needed, to achieve desired objectives. While adaptive management will be a continual process, the CLISMP will be reviewed on an annual basis, and adjustments made as needed, with respect to engagement, monitoring, and reporting.

## 1.2. Summary of Community Trends

CLISMP community data was last reported for the 2020 Q1 & Q2 period. The following trend analysis represents community monitoring data over a six month or semi-annual period. Stated increases or decreases are year-over-year (YOY) comparisons of 2020 compared to 2019, unless otherwise indicated. Several trends were observed from community socio-economic monitoring efforts during 2020 Q3 & Q4 that are more generally attributed to the decline in economic activity, population mobility, and service demand stemming from the COVID-19 pandemic.

### REGION

- The COVID-19 pandemic resulted in reduced capacity at facilities, business closures, and travel bans affecting the regional economy, and the global economy at large.
- Childcare programs are operating at below capacity due to staffing shortages and COVID-19 restrictions. Inadequate wages and lack of qualified workers were reported as barriers to staffing childcare centres.
- Extreme weather response shelters extended from April 2020 to March 2021 in response to the pandemic.
- Shelter and transition house usage declined at both TSW Dunmore Place in Kitimat and Ksan Society Transition House (TH) in Terrace.
- 15% YOY decrease in hotel/motel occupancy in 2020 Q3 and a 32% YOY decrease in 2020 Q4, and 11% YOY decrease in average daily rates (ADR) in 2020 Q3 and 5% YOY decrease in 2020 Q4.
- 49% YOY decrease in commercial passengers transiting through Northwest Regional Airport (YXT) in 2020 Q3 and a 56% YOY decrease in 2020 Q4.
- 1% YOY increase in Highway 37 traffic in 2020 Q3, followed by a 0.1% YOY increase in 2020 Q4.
- A 10% decrease in Coast Mountain School District (CMSD) total headcount was observed between the 2019/20 and 2020/21 K-12 enrolment years.
- 2020 total student enrolment at the UNBC Northwest Campus<sup>1</sup> decreased by 75% for the Summer semester (May to Aug) and decreased by 38% for the Fall semester (Sept to Dec) compared to 2019.
- Total waste disposed at the RDKS Forceman Ridge Waste Management Facility increased 116% for YOY Q3 and increased 35% for YOY Q4.

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<sup>1</sup> Northwest Campus includes Kitimat, Terrace, Hazelton, Prince Rupert, Haida Gwaii and sometimes Smithers (depending on the demand)



## KITIMAT

### Housing

- Steady decline in workers accommodated at Kitimat open lodges Sitka, Annex 2, and Crossroads from July to December 2020, primarily attributed to the opening of Cedar Valley Lodge which began to house an increasing number of workers on the LNG Canada Project site during the second half of 2020.
- Highest combined average occupancy across all Kitimat open lodges was over 1,500 occupants in July 2020. By December 2020, average combined occupancy was under 500 guests, with zero LNG Canada workers staying at Kitimat open lodge facilities.
- Reduced capacity of social housing and non-resident support (NRS) services in response to COVID-19, resulting in decreased available capacity and suppressed demand.
- Kitimat EWR Shelter has continued to operate at nearly full capacity all summer and into the fall as a Capacity Expansion Shelter.
- Hiring and retention is an ongoing challenge for housing service providers unable to provide competitive wages in light of heightened industry employment opportunities.
- Slight decline in total rental housing stock between October 2019 and October 2020. The number of apartment and row units both declined by approximately 2%.
- Rental vacancy increased in Q4 2020 compared to Q4 2019, and a slight increase in average rent was also observed during this period.
- Residential house resale prices in 2020 Q4 were down 1.4% from 2019 Q4 but remained above pre-FID prices (27% increase).

### Emergency Response

- Across all call categories, there was an 18% overall increase in calls for service to Kitimat Fire and Ambulance Services (KFAS) in the second half of 2020 compared with the same period in 2019.
- KFAS fire related calls increased 26% for Q3 YOY, followed by a 94% increase YOY for Q4.
- KFAS medical-related calls increased 25% for Q3 YOY followed by a 19% increase YOY for Q4.
- KFAS reported 119 mental health related calls in 2020, compared to 122 mental health related called in 2019.
- Calls for service to the Kitimat RCMP increased 7% YOY in Q3 and increased 14% YOY in Q4.

### Community Health

- ER Visits to Kitimat General Hospital (KGH) decreased 10% YOY in Q3 and decreased 3% YOY in Q4. This decline is consistent with the pattern seen across BC resulting from COVID-19 public health measures.
- Founded crime occurrences in Kitimat increased 14% YOY in Q3 and increased 20% YOY in Q4.
- In 2020, the Kitimat RCMP responded to 274 mental health occurrences, a drop of 21% compared to 2019, but similar to the 268 occurrences responded to in 2018.

### Utilities

- The Kitimat landfill experienced a 21% increase in total waste disposed in 2020 compared to the 2017–2019 average



## TERRACE

### Housing

- Increased demand for non-market, supportive and emergency housing options in the Greater Terrace area.
- Emergency shelters operating at reduced capacity in response to COVID-19, resulting in decreased available capacity and suppressed demand, with seasonal operation extended into warmer months.
- Slight decline in total rental housing stock between October 2019 and October 2020. The number of apartment and row units both declined by approximately 2%.
- Rental vacancy increased in Q4 2020 compared to Q4 2019, and a slight increase in average rent was also observed during this period.
- Residential house resale prices in 2020 Q4 were down 1.4% from 2019 Q4 but remained 27% above pre-FID prices.

### Emergency Response

- Terrace Fire Department calls decreased 66% in Q3 YOY and decreased 55% in Q4 YOY, largely due to changes in call routing in 2020.
- Ambulance service (BCEHS) calls increased 8% in Q3 YOY (-13% urgent calls), followed by a 26% increase YOY in Q4 BCEHS calls (+28% urgent calls).
- Terrace RCMP calls for service in 2020 decreased 15% YOY in Q3 and decreased 11% YOY in 2020 Q4.

### Community Health

- Founded crime occurrences in Terrace decreased 15% in Q3 YOY and decreased 8% in Q4 YOY
- In 2020, Terrace RCMP responded to 798 mental health occurrences, an increase of 9% over 2019, and considerably more than the 583 mental health occurrences responded to in 2018
- ER visits to Mills Memorial Hospital (MMH) in 2020 Q3 declined by 10% in Q3 YOY and declined by 14% in Q4 YOY with COVID-19 response identified as the primary reason for this decline.

### Education

- The Coast Mountain College (CMTN) Terrace campus reported a 7% decrease in student enrolment in FY 2019-2020 compared to FY 2018-2019

Additional Community monitoring trends can be found in Appendix E of the report.

## **1.3. Summary of Social Management Roundtable Working Group Sessions**

On February 23 and 24 2021, LNG Canada and its prime contractor JGC Fluor BC LNG Joint Venture (JFJV) convened its 2020 Q4 Social Management Roundtable (SMR) which pulled together four working groups to review Project data and socio-economic monitoring trends and gathered feedback to better understand the experiences of community.

Working groups were:

1. Housing & Accommodations (and Child Care)
2. Community Health
3. Traffic & Emergency Response
4. Community Amenities, Utilities and Education



76 participants representing 34 communities, First Nations, government agencies and stakeholder groups joined the LNG Canada Project team virtually (via MS Teams) to ask questions and to provide feedback and insights. Ahead of the meeting, participants were provided with pre-read materials including comprehensive community monitoring data for the 2020 Q3 & Q4 period, Project monitoring data and an update on open actions from previous SMR sessions.

As in prior sessions, the Project team addressed items raised at previous meetings and took on additional areas for clarification and response to support overall mitigation efforts. Several provincial agencies also participated at the roundtable and contributed to areas of community discussion above and beyond what the LNG Canada Project might be able to directly address. A representative from Northern Development Initiative Trust joined the grounding session to provide an overview of the [Northern Healthy Communities Fund](#) and answer any related questions.

Discussion points from each working group sessions are captured in Section 6 of this report. A summary of SMR action items and follow up discussion points can be found in Section 7 of this report.

## 2. Introduction

This interim update provides an overview of Project activities during 2020 Q4 ending December 31 and summarizes Project-specific metrics alongside socio-economic trends observed in community and anecdotal feedback to help the Project assess effectiveness of its social management plans. This report also serves as a record of information and discussion from Social Management Roundtable (SMR) working group meetings that took place via tele-conference on February 23 and 24, 2021.

## 3. Project Update

The LNG Canada Project (Phase 1) is anticipated to take approximately five years to complete. The initial three years of Project construction will focus on site preparation, construction of Cedar Valley Lodge (workforce accommodation), the LNG tank and the marine terminal. Major construction is slated to commence in 2022, involving assembly of the LNG plant and associated components. An overview of Project construction activities for the reporting period and an update on workforce and current COVID-19 site protocols was shared for discussion at the February 23–24 SMR meeting. A summary is provided below.

### 3.1. Current Project Activities

During Q4 2020 work progressed on a number of activities ranging from marine works to site preparation to early construction efforts. Several key activities were completed at year end 2020, while a number of activities were ongoing into 2021 as follows:

#### Completed Scopes of Work at YE2020:

- Minette Bay North Large Woody Debris removal
- Kitimat River Side Channel North and Beaver Creek diversion
- Site preparation (stripping, excavation and backfill to rough grade)
- 3 km Module Haul Road
- Anderson and Moore Creek Bridges

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## Notable 2020 Construction Progress Milestones:

- Concrete pour and foundations – 35,000 m3 poured
- Cedar Valley Lodge – first 3,000 beds
- LNG Tank – foundation concrete and first wall lift completed
- Piling – 6,400 piles driven ~80% complete

## Ongoing Scopes of Work continuing into 2021:

- Cedar Valley Lodge **to be completed by Q2 2021**
- Materials Offloading Facility **to be completed by Q2 2021**
- Piling program **to be completed by Q2 2021**
- Minette Bay Salt Marsh activities
- Wharf construction and marine construction at Terminal A Extension (Rio Tinto)
- 3rd Dredging season commenced October 2020
- LNG Tank
- LNG Berth
- Non-process Buildings and Admin area
- River water intake
- Perimeter bund wall
- Concrete foundations / pile caps
- 24-hr hauling of aggregate materials to site
- Receiving construction materials via marine transport
- Road transport deliveries for construction and operation of Cedar Valley Lodge; concrete deliveries

During the month of December 2020, the LNG Canada Project began its annual ramp down for the holidays, with a limited set of activities continuing at the Kitimat site from December 23, 2020 to January 3, 2021 including marine scopes progressing through environmentally sensitive windows, safety, security, environment and site-wide services (snow clearing, waste management). A gradual restart resumed in January 2021 in line with COVID-19 Public Health Orders as outlined in the next two sections.

The following images capture a range of site construction activities as of Q4 2020:



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**Figure 1** Moore Creek & Anderson Creek Bridges (Q4 2020)



**Figure 2** Minette Bay Salt Marsh (Q4 2020)



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**Figure 3 Cedar Valley Lodge (Q4 2020)**



**Figure 4 Quay Wall at the Berth (Q4 2020)**



**Figure 5** LNG Tank (Q4 2020)

### 3.2. Project COVID-19 Update

LNG Canada is committed to protecting workers and surrounding communities from COVID-19, and to reducing the risk of infection in all areas of our operations and activities through:

- Continuous enhancement of COVID-19 protocols on site and at workforce accommodations
- COVID-19 rapid screening program<sup>2</sup> at charter hubs in Calgary and Edmonton
- Additional resources and equipment to manage COVID-19 prevention and care, including increased staffing of medical professionals and increased supplies of medical grade oxygen
- Adherence to [Orders from Provincial Health Officer](#), Dr. Bonnie Henry, including the [Industrial Projects Restart](#) order
- Adherence to [Industrial Camp Guidance \(BC Centre for Disease Control\)](#)
- Adherence to [safe construction worksite requirements \(WorkSafeBC\)](#)
- Frequent communication with regulators, Northern Health, stakeholders, and communities
- Participation in District of Kitimat COVID-19 Emergency Operations Centre Interagency meetings
- Participation in Kitimat Economic Recovery Task Force
- Policy restricting all non-local Project workers from leaving the Project site, and other work areas, or visiting any public establishments when they are on rotation in Kitimat (with the exception of medical emergencies or critical appointments). Social gatherings among Project workers are also prohibited

From November 29, 2020 to January 11, 2021, the LNG Canada Project experienced two (2) COVID-19 outbreaks at the Project site with a total of 72 confirmed COVID-19 positive cases. Each outbreak triggered mobilization of a Facility Outbreak Management Team (FOMT) led by Northern Health, composed of representatives from multiple government

<sup>2</sup> COVID-19 rapid screening at BC charter hub locations and at the Project site in Kitimat anticipated to commence by the end of March 2021.



agencies and the LNG Canada Project. The FOMT met on a daily basis at the onset of each outbreak, with a decreasing meeting frequency once the number of cases diminished and was supported with a regular cadence of related public notifications. Both outbreaks were contained with the support of Northern Health. Due to patient privacy laws, the Project is unable to comment on the patient care provided; however, all 72 individuals have fully recovered.

Efforts to contain each outbreak entailed: swabbing; PCR testing; contact tracing; isolation, care and treatment of COVID-19 patients, including, in rare circumstance, hospitalization. A total of 137 PCR tests were conducted in response to the outbreaks. The LNG Canada Project worked closely with Northern Health over the duration of the outbreaks to reduce the draw on public resources and to internalize public health and health care services to the extent possible, through increased staffing of medical professionals and non-medical personal care attendants, and development of in-house protocols and capability (e.g., swabbing/sample collection and transport, Case Contact Management, increased supplies of medical grade oxygen, isolation wing in camp). Table 2 provides an overview of COVID-19 outbreak management efforts.

**Table 2 LNG Canada Project Metrics—COVID-19 Management**

LNG Canada COVID-19 Outbreak Management	Outbreak #1 (Nov 19 – Dec 25)	Outbreak #2 (Dec 16 – Jan 11)
Duration	37 days	28 days
COVID positive cases	56 cases	*16 cases
Case Contact Management by LNG Canada Project	905 hours	
Intake Patient & Follow-up effort by LNG Canada Project	1,405 hours	
COVID swab effort by LNG Canada Project	407 hours	

NOTE: Above estimates based on aggregate hours of Project medical and non-medical personnel including: COVID-19 Registered Nurse, Nurse Practitioner, Emergency Response Technicians and Site Liaison Officers during outbreak designated days.

\*Includes Outbreak #2 numbers that extended into January 2021 and beyond the Q4 2020 reporting period

On December 29, the Provincial Health Officer issued an Industrial Projects Restart Order, requiring five major industrial Projects in Northern British Columbia, including the LNG Canada Project, to ramp up slowly over the month of January to reduce the risk of further COVID-19 cases in the Northern Health region (the order was updated with minor adjustments to workforce numbers on January 12, 2021). The LNG Canada Project subsequently submitted a plan to Northern Health and the Provincial Health Officer outlining measures taken to safely ramp up the workforce beyond the numbers identified in the order, with approval received in early February to proceed with a staged and cautious restart through to the end of March. Any further increase in workforce will be a decision based on prudent COVID-19 control and will involve appropriate engagement with public health authorities.

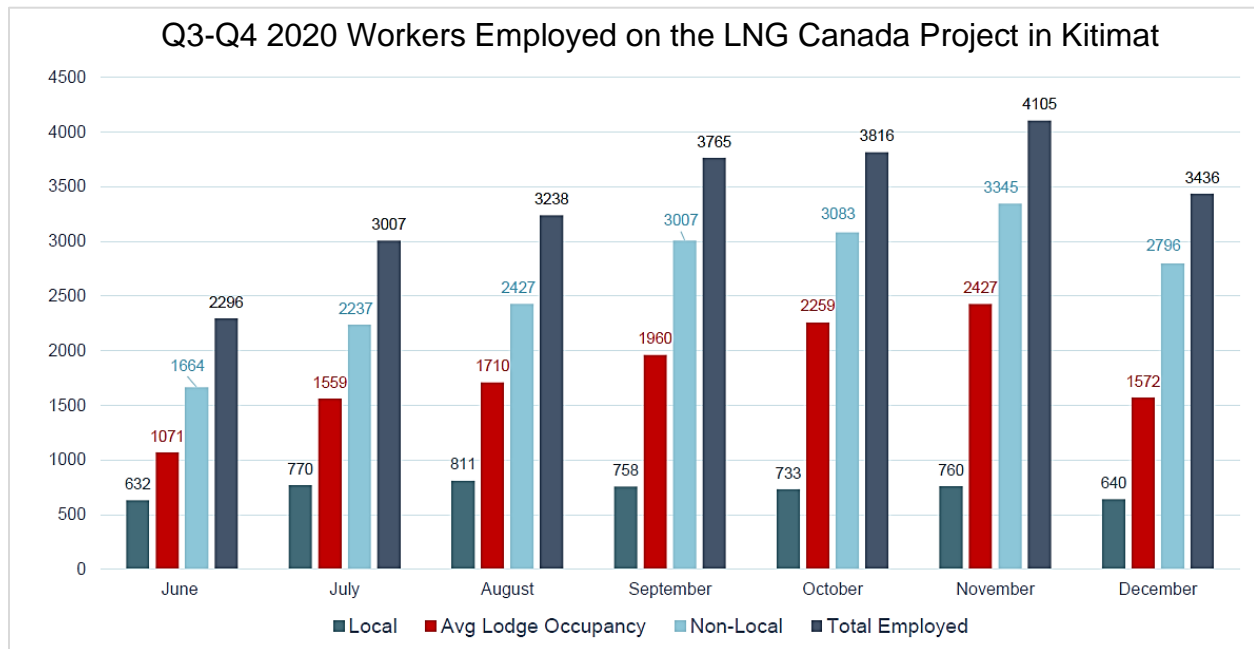
### 3.3. Project Workforce

During 2020 Q4, with further completion of Cedar Valley Lodge (CVL) facilities and the availability of increased bed capacity, a cautious workforce increase continued at the Kitimat site. The Project employed a peak of 4,105 people in the month of November. This total employed workforce is higher than the total number of workers at the job site each day, as it includes local and non-local workers on rotation in Kitimat, along with workers currently off rotation and newly





hired workers mobilizing to site. For the same time period, a peak population of 2,427 non-local workers was staying in open lodge accommodations in Kitimat or on-site at Cedar Valley Lodge, while a peak of 760 workers from local communities were employed by the Project, commuting daily from their local area residences.



**Figure 6 Workers Employed on the LNG Canada Project in Kitimat 2020 Q3 & Q4**

In December 2020, the annual seasonal ramp down took place at the Kitimat Project site with approximately 450 workers remaining from December 23 to January 3. In adherence to the Provincial Health Officer Restart Order, the Project gradually increased workforce numbers up to 1,162 on site by January 20, 2021. Following the recent approval of LNG Canada’s restart plan, workforce numbers will be gradually increased to approximately 3,000 on site by the end of March 2021. Any further increase in workforce will be a decision based on prudent COVID-19 control and will involve appropriate engagement with health authorities.

Recognizing the uncertainty of the evolving COVID-19 pandemic, 2021 may see an optimal increase in hiring and workforce numbers during the second half of the year in anticipation of main construction activities from 2022 through to 2024. During peak construction, 7,500 employed workers are anticipated, with 4,500 workers housed on site at Cedar Valley Lodge and others commuting daily from their local residence, with the balance of workers off rotation in their home communities.

## 4. Engagement

LNG Canada has a robust stakeholder and Indigenous engagement program designed to provide updated Project information and to discuss the implementation of the CLISMP during construction of the Project. LNG Canada will review its engagement mechanisms on an ongoing basis and will revise if needed. Table 3 below outlines a range of engagement activities carried out by LNG Canada and its prime contractor, JFJV, during 2020 Q4. These activities are



complemented by routine and frequent engagement with Indigenous groups, community organizations, and local governments, including key authorities and planning focal points. In light of physical distancing and other constraints imposed by the COVID-19 pandemic, the Project has reduced some engagement activities, while increasing a range of engagements specifically related to COVID-19 response as outlined in Section 3.2. Most engagements were conducted virtually during the reporting period.

**Table 3 Project Community Engagement during 2020 Q4**

Engagement Type	Activities During 2020 Q4
Community Feedback Process	812 inquiries were received and addressed from July - December 2020, of which 13 were concerns or complaints. Nine concerns or complaints received were related to infrastructure & services impacts.
Project Website and Facebook page	<a href="http://www.jfvkitimat.com">www.jfvkitimat.com</a> for online construction updates, employment and contract opportunities. Follow JFJV Kitimat on Facebook (3,389 followers) <a href="https://www.facebook.com/jfvkitimat">www.facebook.com/jfvkitimat</a>
Project Resource Centre (PRC)	Walk-in Project information centre located in Kitimat mall open Mon–Fri. In response to COVID-19 the PRC was closed to the public from December 22, 2020 until the end of the year and into 2021 (re-opened to the public March 1, 2021). In addition to the PRC, the community is able to reach the Project via email <a href="mailto:info@jfvkitimat.com">info@jfvkitimat.com</a> and phone 1-888-499-5358
Social Management Roundtable	2020 Q3 SMR meeting held virtually December 8, 2020 (three working groups: 28 different First Nations, municipalities, provincial agencies and community groups were represented during the session, with 70 participants).
Municipal Project Updates	Project Updates are provided multiple times per year to local municipalities with an opportunity for municipal leaders to ask the Project questions and provide feedback. During Q4 2020 one municipal update was provided to the District of Kitimat Mayor and Council on December 4 focused on COVID-19 Management at the Project site.

## 5. Project Benefits

LNG Canada works with local municipalities, First Nations, local organizations, the local business community and area residents to ensure both direct and indirect benefits are realized by communities in proximity to the LNG plant site.

### CONTRACTING & PROCUREMENT

The Project places a priority on contracting and procurement with Haisla and other Indigenous-owned businesses as well as with local area businesses. As of Q4 2020, the Project has awarded contracts and procurement totalling approximately CAD \$3 billion to businesses in British Columbia. Of this amount, over CAD \$2.5 billion has been awarded to Local Area and Indigenous businesses.

**CAD 2.5 billion**  
Local & Indigenous Contracts

Joint venture companies



## EMPLOYMENT IN KITIMAT

LNG Canada, JFJV, subcontractors and sub-subcontractors are all required to follow a local hire first policy that evaluates qualified applicants and prioritizes hiring of Haisla members or their spouses, and local residents from the Kitimat-Terrace area including Kitselas and Kitsumkalum members. Next hiring priority is given to BC residents including Gitga'at, Gitxaala, Metlakatla and Lax Kw'alaams members, and then Canadians more broadly.



During the month of November 2020 in Kitimat, the Project employed a total of 4,105 workers including 278 Indigenous workers (~60% of whom were from the local area), 580 women, and 760 workers from the local area. The total employed workforce represents total persons employed to support work activities in Kitimat reported by LNG Canada, its contractors, subcontractors and sub-subcontractors, and is composed of local workers and non-local workers both on and off rotation as well as newly hired workers who have not yet mobilized to site.

## WORKFORCE DEVELOPMENT

LNG Canada has to date invested **over \$4M in workforce development programs**—meaningful trades training and development programs designed to increase the participation of local area residents, Indigenous communities and British Columbians. LNG Canada partnerships have supported training and applied work opportunities for BC residents, including:

- over 1,300 apprentices trained through the Trades Training Fund
- 349 local area residents placed on construction jobs in NW BC through the Connect Program
- 32 women hired onto the LNG Canada Project or into other employment opportunities after receiving introductory trades training through the YOUR PLACE program

Workforce Development programs were paused during 2020 Q2 due to COVID-19 restrictions limiting travel, group gatherings and use of classroom facilities. Efforts are underway by LNG Canada and its prime contractor JFJV to support delivery of the following programs in 2021:

- Arc & Spark Indigenous youth welding camps (Canadian Welding Bureau)
- Trades Training fund apprentice training support (BC Construction Association)
- Connect construction job placement program (BC Construction Association)
- YOUR PLACE women in trades program (Women Building Futures)
- Introduction to Industrial Construction boot camp (JFJV)

## MUNICIPAL CONTRIBUTIONS

During the second half of 2020 alone, **\$672,000 was contributed to the District of Kitimat (DOK) Affordable Housing Fund** directly from the LNG Canada Project (paid by JFJV) for additional bed capacity in line with further completion of Cedar Valley Lodge. District of Kitimat (DOK) Affordable Housing Fund levies a one-time contribution of \$500 per unit for workforce accommodations centre operators in Kitimat.



## STRATEGIC SOCIAL INVESTMENTS

LNG Canada works closely with local municipalities, Indigenous communities, and non-profit groups to partner on sustainable programs that help address community needs, strengthen community resilience, and enhance CLISMP-related Project mitigation efforts where possible. Some examples of recent contributions spanning community health and road traffic needs include:

- Northern Health COVID-19 vaccine freezers
- District of Kitimat Traffic Light Upgrades (Lahakas & Haisla Blvds)

## 6. Social Management Plans

As part of its monitoring requirements under the CLISMP, LNG Canada tracks and collects Project-specific data related to direct Project demand for and impacts to community infrastructure and services and collects community level data that measures impacts on infrastructure and services at the community level. The following summarizes Project actions to limit direct effects on community infrastructure and services, Project direct demands during Q3–Q4 2020, key trends and issues identified from community monitoring for the same period, and feedback captured during SMR meetings.

### 6.1. Housing and Accommodations (and Childcare)

The Project has implemented the following measures to manage Project-direct effects on housing and accommodations during 2020 Q3 and Q4:

- No Living Out Allowances (LOA) provided to the workforce.
- Non-local workers follow a job rotation system (primarily 14 days on / 7 days off) to encourage workers to maintain their home base, with charter flights provided from multiple hubs.
- Build and operate Cedar Valley Lodge workforce accommodation centre, to house the non-local Project workforce on site.
- As needed, provide accommodations to non-local workers at open lodges in Kitimat: Crossroads Lodge Sitka Lodge and Sitka Annex 2. Since December 2020 all non-local workers have been housed on site at Cedar Valley Lodge.
- Actively discourage non-local job seekers from relocating to Kitimat or Terrace. Share information about charter hubs and rotation system.
- Limit the number of employees relocated to Kitimat with accompanying partner and/or children. Provide accommodations through company-provided housing.
- The Project works closely with DOK to consider any housing stock utilized for a small number of relocated direct employees and supervisors.

In response to the COVID-19 pandemic, all open lodge facilities in Kitimat were required to reduce their maximum capacities and were operating below capacity for July to December 2020. While the Project housed some of its non-local workers at open lodges during this period, Kitimat open lodges also house workers from other Projects in the area. Due to reduced operating capacity, percent occupancy at open lodges directly attributed to the Project could not be





accurately assessed in Q4 2020. The Project stopped using Sitka Lodge in September and stopped using Annex 2 and Crossroads Lodge in November. Crossroads Lodge has closed as of December 22, 2020.

During 2020 Q3 and Q4, a decreasing number of non-local Project workers were accommodated at open lodges in Kitimat (Sitka Lodge, Annex 2 and Crossroads Lodge) as the Project transitioned workers on site, to Cedar Valley Lodge. The average Project occupancy across all open lodges peaked at just over 1,200 workers in July 2020 and steadily declined to 178 workers in November 2020. The Project's on-site workforce accommodation centre, Cedar Valley Lodge (CVL), began operations in July 2020 with an average occupancy of 336 workers, increasing to a peak of 2,249 workers in November 2020. As of December 2020, all non-local Project workers are accommodated at the Cedar Valley Lodge. As Cedar Valley Lodge construction is completed in Q2 2021, capacity will gradually increase until 4,500 beds are available for the workforce.

As of November 2020, a total of 54 employees had been relocated to Kitimat with company-provided housing, in some cases accompanied by family members with 28 accompanying children in total. This number of relocated employees has fluctuated as scopes of work start up or conclude and due to COVID-19. The Project has managed its direct demand on the local housing market by housing its non-local workers in open lodges and Cedar Valley Lodge, and by not providing LOAs. No adverse effects on housing directly attributable to the Project have been observed. Additional Housing & Accommodations monitoring data and trends can be found in Appendix E of the report.

Since the CMHC 2020 Fall Survey (October 2020), estimated average rent rates continue to increase for both communities, particularly in Terrace. In 2020 Q4, estimated rental vacancy rates decreased for Kitimat (from 22.7%<sup>3</sup> in 2019 Q4 to 9.15% in 2020 Q4) and increased for Terrace (less than 1% in 2019 Q4 to 4.58% in Q4) compared to 2019 Q4.

The extreme weather (EWR) shelter data at Kitimat continued to be operated at full capacity throughout the fall of 2020. The Kitimat CDC has secured funding from BC Housing to operate the shelter year-round, due to the COVID pandemic. Place Transition House in Kitimat (operated by Tamitik Status of Women [TSW]) experienced a 41% decrease in bed-stays in 2020 Q3/Q4 compared to 2019 Q3/Q4, which is likely attributed to reduced capacity in response to COVID-19 restrictions.

In Terrace, the EWR Shelter reported a 53% decrease in bed-stays in 2020 Q4 compared to 2019 Q4. Due to COVID-19, the Terrace EWR Shelter has been extended as a Capacity Expansion Shelter until March 31, 2021. The Ksan Residence and Shelter (KRS) experienced a 63% drop in nights full/overfull in 2020 Q3/Q4 compared to the same period in 2019. At the Terrace Transitional House (TH; operated by Ksan Society), bed stays decreased by 52% in 2020 Q3/Q4 compared to 2019 Q3/Q4. Occupancy rates at the M'akola Housing units in Terrace were 1% lower in 2020 Q3 (July and August only) than in 2019 Q3, with at least 89% of the units occupied during each month. M'akola Housing unit data for Q4 2020 was not available at the time of reporting.

There remains a shortage of qualified Early Childhood Educator (ECE) staff in the region. Childcare facility operators indicate that attracting new staff from other communities is difficult due to high rental costs (Hemmy 2021). In Kitimat between Q2 and Q4 2020 the waitlists for infant toddlers (ages 0–3) has increased from 40 to 50 and is likely to increase

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<sup>3</sup> 13.5% Kitimat estimated rental vacancy rate is based on market availability rather than total rental housing stock. This excludes off-market units that may be in a state of disrepair or otherwise withheld by landlords.



with higher demand anticipated (Hemmy 2021). The Kitimat Community Development Centre (CDC) is currently unable to expand childcare services due to lack of qualified staff and COVID-19 restrictions.

During the SMR working group session, the Project gave an overview of the demand for social housing and emergency shelter use. Ksan Society indicated that its Capacity Expansion Shelter (24-hour drop-in facility) supports a maximum daily capacity of 50 individuals and, on average, supports 20 individuals in a 24-hour period. Its EWR shelter is available only at night, with a maximum daily capacity of 20 individuals and an average capacity of under nine clients per day. Ksan Society noted that the daytime services provided by the Capacity Shelter are much needed -- the facility is being used and is always busy. Ksan society has received positive feedback and gratitude from clients.

Kitimat Community Development Centre (CDC) commented that its EWR shelter would typically close on March 31 but remained open for the entirety of 2020 due to the pandemic. The shelter has four shelter beds across two rooms, with an average capacity of two individuals per night. It was noted that maintaining social distancing has been a challenge due to limited rooms available and this could have impacted its numbers. Kitimat CDC voiced that it would be good to know what the plan for the shelter's funding is beyond March 31, 2021. TSW shared an update regarding the trends in its shelter usage. TSW noted that it experienced full capacity in 2020 Q4. TSW further noted that its Transition House is in COVID-19 lockdown, and that people can only leave for reasons deemed necessary, which is a deterrent for some to use the facility.

A question was voiced on whether the increased need for shelter beds is related to employment or other issues, and if there is a correlation to demand for childcare services. Kitimat CDC responded that the lack of affordable housing is the challenge for the people it serves. Housing costs are disproportionately high for below average income households in Kitimat. In terms of childcare, Kitimat CDC does not have access to enough qualified early childhood educators (ECE) to meet staffing needs and demand for childcare. The City of Terrace (COT) also commented that its recently completed Housing Action Plan and Needs Assessment shows that adequate housing is neither available nor affordable in Terrace. Average rental prices are high and building materials for new housing are at an all-time high across Canada. Housing projects funded through the Province are underway but are slow to develop. In the meantime, the COT noted that there will be continued pressure on the community, and many people are being squeezed out of the opportunity to buy a house. Increased rent is making it more difficult for people to save for down payments.

Childcare staff wages were further discussed, with a question raised on the availability of recruitment competition data, and information on disposable income for parents needing to pay for services (with respect to eligibility for childcare subsidies). It was noted that the Skeena Child Care Resource & Referral in Terrace has tracked most of this information and that the fee-for-service structure considers costs of operations and staff salaries and what is charged to parents. Kitimat CDC indicated they have lost staff to major construction projects in the area and that childcare service providers cannot compete with industry wages. The need for a current assessment of cost of living / living wage for Kitimat was raised by service providers.

A question was raised about the Terrace Annual Homeless Count, and when the next survey would occur. The COT responded that the survey is ideally undertaken in March 2021, but it is unlikely to happen this Spring due to COVID-19. In the meantime, COT is working closely with Ksan Society and shelter focal points to understand needs. The COT hopes to accomplish the survey by fall of 2021.



The SMR identified a number of suggestions to help track and/or manage changes in housing and accommodations and child care in the region (see Section 7, Table 4). No additional Project mitigation measures were identified at the SMR meeting.

## 6.2. Community Health

The Project has taken the following actions regarding Community Health in Q3 and Q4 2020 to minimize direct impacts on local and regional health care services and to promote community cohesion:

- Medical services provided at Project site, Sitka Lodge, Annex 2, Cedar Valley Lodge.
- Crossroads Lodge has an Occupational First Aid (OFA) person available day/night. ISOS Medical is there to support critical emergencies. All non-emergencies are directed to the Project site clinic.
- Communication and coordination with Kitimat General Hospital (KGH). Regular check in with Mills Memorial Hospital.
- Workers at site receive training and must sign a Workers Code of Conduct and complete Cultural Awareness Training. Consequence management is enforced.
- Implementation of Health & Medical Services Management Plans, including health promotion, worker wellness (including mental health), infectious disease prevention and outbreak controls.
- COVID-19 management:
  - Continuous enhancement of COVID-19 protocols on site and at workforce accommodations
  - COVID-19 rapid screening program introduced in January 2021 at charter hubs in Calgary and Edmonton. Screening at BC charter hubs and at Cedar Valley Lodge in Kitimat are anticipated to follow in Q1 2021
  - Isolation wings in workforce accommodations, where any resident with symptoms or confirmed COVID-19 infection is housed and receives services and care
  - Increased staffing of medical professionals and non-medical Personal Care Attendants
  - On site COVID-19 swabbing as directed by health authorities
  - Increased supplies of medical grade oxygen
  - Policy restricting all non-local Project workers from leaving the site, and other work areas

The Project strives to have no impact to regional healthcare services and infrastructure, except in the case of emergencies which cannot be predicted or avoided, such as cardiac arrest. Managing direct effects on community health also considers workforce activities and behaviours to promote healthy living and working environments, and community cohesion.

In 2020 Q4, the Project recorded 13 occupational and 31 non-occupational injuries/illnesses requiring treatment in local hospitals (compared to 13 occupational and 32 non-occupational injuries/illnesses in 2020 Q3). There were 189 notifications to Northern Health for occurrence of communicable illnesses/diseases, primarily related to COVID-19, including daily briefings (compared to 107 notifications in 2020 Q3). Also, in Q4 2020 the Project's first aid and medical staff responded to 3,618 non-occupational health needs of workers at clinics located at the Project site or at worker accommodation centres.

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During 2020 Q4, 100% of workers signed off on the Worker Code of Conduct (same as Q3) and 100% of workers were reported to have completed cultural awareness training (compared to a monthly average of 95% in Q3). Newly onboarded workers have 30 days to complete cultural awareness training, hence the percent completion of this training reported for any given month may be less than 100%.

An overall decrease in KGH and Mills Memorial Hospital (MMH) ER visits occurred in 2020 Q3 & Q4 compared to 2019. Q3 & Q4 was consistent with other Northern Health services in response to COVID-19 measures. During 2020 Q3 and Q4, KGH in Kitimat reported a lower portion of unscheduled ER visits compared to MMH in Terrace (66% for KGH compared to 84% for MMH), but a higher portion of reported patients from outside the Northern Health Authority (NHA) compared to MMH (10% for KGH compared to 5.7% for MMH). This suggests that some Project workers may be visiting the KGH emergency room for non-workplace related issues. In Q3 and Q4 2020, the Project had limited direct demand on health facilities, with Project occupational and non-occupational injuries and illnesses accounting for roughly 1.2% of the ER visits at Kitimat General Hospital (KGH). Additional community health monitoring trends can be found in Appendix E of the report. Seven health concerns were received between August and December 2020.

For the first time, CLISMP community monitoring efforts have enabled an initial profile of mental health service demand in the community base on a limited number of available metrics: 12 patients in 2020 were transferred from KGH to MMH for adult psychiatry. Within the TSW's Homeless Protection Program in Kitimat, 49% of family units have known and confirmed cases of mental health and addiction. Over the course of 2020, KFAS reported 119 calls related to mental health, which was comparable to what was recorded in 2019 (122 calls). The RCMP responded to 274 mental health occurrences in 2020, which was a 21% drop compared to 2019, but similar to what was reported in 2018.

Induced effects resulting from regional economic development continue to affect some community health determinants, particularly with respect to a scarcity of affordable housing. This is evidenced by the ongoing high demand for emergency and temporary housing, despite lower nights full and bed-stays due to reduced capacity in response to COVID-19. As indicated by RCMP, founded/reportable crime occurrences in both communities increased in Q3 (+14% in Kitimat and +15% in Terrace), while Q4 saw an increase in Kitimat (+20%) and a decrease in Terrace (-8%).

Feedback from the SMR community health working group discussion considered the Project COVID-19 response and additional considerations for protecting and supporting the workforce and community:

- The Project noted that it has introduced rapid COVID-19 screening and workers must also complete health checks. Accreditation is required before rapid testing can be rolled out to BC-based locations. The vaccination rollout will follow the Province's direction.
- To combat mental health issues for people in isolation/quarantine, the Project noted that local day-to-day support and medical professionals are in constant communication with those affected. All workers are regularly made aware of individual company benefits/support programs.
- The Project indicated that its cultural orientation training program does not specifically address the sensitivity of Indigenous populations to COVID-19. However, the Project has taken separate efforts to help workers understand Indigenous cultural considerations and vulnerabilities and will continue to do so. The Project has delivered some strategic and targeted support in First Nations communities in response to the pandemic.



- In relation to contact tracing for the workforce, the Project noted that this is a joint effort between JFJV and Northern Health. The Project has increased medical staffing to support contact tracing carried out by the Project under the guidance of Northern Health.
- Northern Health commented that the Project has been great to work with, noting great processes and a high attentiveness. Northern Health have confidence in the Project's work.
- In relation to Northern Health resource allocation to support the two COVID-19 outbreaks at the LNG Canada site in Kitimat, the Project noted that it took measures to increase medical staffing for the purpose of lessening the draw down on Northern Health resources who were supporting these outbreaks.
- Northern Health added that while it has diverted regional resources to manage outbreaks in the region, these were not necessarily resources meant for Kitimat and Terrace. As an example, Northern Health had allocated resources for outbreak scenarios including planning of the Facilities Outbreak Management Team (FOMT) in anticipation of any outbreak in a non-healthcare facility. This was done in advance of the LNG Canada outbreaks.
- Northern Health indicated a large portion of its work with industry focuses on partnership and capacity-building and that the LNG Canada Project did a great job of increasing capacity.

The Project presented data collected by the RCMP on mental health, violent crimes and sexual assault occurrences. A comment was made on the how the data and long-term trends are analysed, suggesting it would be helpful to look at this from a rate perspective, rather than raw data, to take into consideration changes in population. Another question was posed regarding the inclusion of non-reported cases and if COVID-19 restrictions have created barriers for individuals to report and seek help. It was noted that the current data set does not include non-reported cases, and that the pandemic has certainly impacted data, though it is not something that can be directly correlated to the trends observed. Ksan House Society shared that through an Ending Violence in BC grant it has hired a new Sexual Assault Response Coordinator.

Kitsumkalum First Nation shared that its community is a state of anxiety, fear and doubt due to COVID-19 but are looking forward to the opportunity for the community to gather again. An appreciation was extended to LNG Canada for keeping the community up to date as outbreaks have occurred.

The SMR identified a number of recommendations to help track and/or manage changes in community health in the region (see Section 7, Table 4). No additional Project mitigation measures were identified in the SMR meeting.

### **6.3. Traffic**

The Project has implemented the following mitigation measures to manage Project-direct effects on road and air traffic during Q3 and Q4 2020:

- Implement Traffic Management Plan, developed in consultation with DOK and the Ministry of Transportation and Infrastructure [MOTI], including consideration for offsite motor vehicle incidents (MVIS).
- Majority of heavy, oversized equipment and materials delivered by marine transport.
- Shuttle service provided to and from site with local pick up points in Terrace and Kitimat, including the Northwest Regional Airport, Sitka Lodge, Sitka Annex 2 and Crossroads Lodge.



- Local residents are required to park their personal vehicles at specific Park 'n Ride locations in Kitimat, Kitimaat Village and Terrace and take shuttles to and from the worksite.
- The Project continues to work with DOK to minimize local traffic impacts.
- In-vehicle monitoring systems with zero-tolerance Project policy for speeding in Project vehicles
- Charter flight service in place since 2019 Q4.
- Ongoing logistics planning and coordination with Northwest Regional Airport, MOTI, DOK.

In 2020 Q3 and Q4, the Project continued to limit its impact on roadway traffic volumes by transporting local and non-local workers by shuttle bus. There were increases in the number of workers being transported between Project construction sites and local Park 'n Ride lots in Kitimat and Terrace. By enforcing shuttle transit for workers, the Project limited the use of personal vehicles on local roads, with only a small proportion of the increased traffic measured at MOTI's Kitimat North monitoring site, located 0.8 km south of Oolichan Avenue on Highway 37 directly attributable to the transportation of Project workers (estimated at approximately 0.4% of total traffic volume in Q3 and 0.7% in Q4). The Project reported 14 transport-related incidents or near misses in 2020 Q3 and 16 in 2020 Q4. Eight traffic related complaints/concerns from the public were reported by the Project in 2020 Q3, followed by three complaints/concerns in 2020 Q4.

A 56% YOY decrease<sup>4</sup> in 2020 Q4 air traffic through YXT was observed, with the decline attributable to the COVID-19 pandemic (following a 49% YOY decrease in 2020 Q3). The Project directly accounted for approximately 9.4% of commercial passengers transiting through the airport in Q4 (compared to 7.7% in Q3). The use of commercial flights by the Project has remained fairly consistent over the second half of 2020, while there was a 71% increase in Project workers transported by charter carriers in Q4 compared to Q3 (Appendix D). Complete traffic monitoring trends can be found in Appendix E.

During the SMR working group session, the Project shared an update on implementation of its Traffic Impact Study (TIS) and Traffic Management Plan. A question was raised on where the risk areas/hot spots were identified in the updated Traffic Impact Assessment and if there were any areas of concern. The Project noted that roadway traffic associated with Haisla Blvd in Kitimat's industrial zone is where most activity is concentrated. For example, work is underway with the DOK to consider traffic from the concrete plant within Kitimat's industrial zone. No areas of concern have been identified outside of the industrial zone. Adjustments to the TMP are made as new information becomes available. It was noted that the DOK traffic study will be released in Spring 2021 which considers cumulative traffic impacts to the full length of Haisla Blvd. Another question was raised on updated traffic planning due the closure of the Rio Tinto traffic rail diversion. MOTI stated that CN Rail will be moving 100 cars of normal large loads by road and relocating them to the Terrace side of the track and does not anticipate any issues.

MOTI shared a comment that LNG Canada's approach to using personal shuttle buses to/from site with pick-up points in Terrace and Kitimat (airport, lodges) has been very successful at mitigating traffic impacts on the roads.

The Project indicated it would share details of its Incident Management Plan and Public Information Plan at a future meeting. WorkSafeBC shared that it is enacting changes to emergency vehicles with respect to traffic control, which

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<sup>4</sup> In response to COVID-19 travel restrictions, business shut-downs and limits on group gatherings.





may have impacts to the Incident Management Plan. WorkSafeBC will be addressing these changes with all parties involved, including regional fire departments.

The SMR identified a number of suggestions to help track and/or manage changes in traffic in the region (see Section 7, Table 4). No additional Project mitigation measures were identified in the SMR meeting.

## 6.4. Emergency Response

The Project has implemented the following mitigation measures to manage Project-direct effects on emergency response services:

- Site Emergency Response Plans are in place, developed with inputs from KFAS.
- Primary onsite emergency response managed with on site personnel and equipment.
- Safer Together Program reinforces a safety mindset that is based on four pillars with a strong foundation of caring for people.
- All site personnel complete Worker Code of Conduct and Cultural Awareness Training.
- Regular Project engagement with RCMP and First Responders

In 2020 Q4, the Project recorded 16 incidents requiring ambulance service calls to site and three RCMP service call to meet Project workforce needs (compared to six ambulance service calls and seven RCMP service calls in Q3). One fire department service call or medical evacuation to Project worker locations was required in Q3 only.

In 2020 Q3 and Q4, there was an increase in total call volume for most emergency services in Kitimat and Terrace, except for the Terrace Fire Department (TFD), which experienced a significant drop in calls, mostly attributed to changes in dispatch coding. In Q4, the Project directly accounted for approximately 2.8% of fire and ambulance calls in Kitimat (compared to 1.1% in Q3).

In 2020 Q4 RCMP calls increased in Kitimat but decreased in Terrace compared to 2019 Q4, with a similar trend observed in 2020 Q3. The number of founded/reportable crime occurrences in Kitimat was 14% higher in Q3 2020 compared to Q3 2019, and 20% higher in Q4 2020 compared to Q4 2019. In Terrace, the number of founded/reportable crime occurrences decreased by 15% in Q3 2020 compared to the same period in 2019 and declined by 8% in Q4 2020 compared to Q4 2019. Approximately 0.5% of RCMP calls were directly attributed to the Project in Q3 and Q4, 2020. Additional emergency response monitoring data and trends can be found in Appendix E.

During the working group session, the Project provided an update on its Emergency Response Plan. Questions were raised on whether the general public in the Kitimat area is aware of some of the emergency response scenario risks and related communication protocols, and if there have been any broader engagement/awareness raising campaigns on this topic that the Project has undertaken. With regards to engagement/awareness raising campaigns, the Project responded that the risk assessments point to minimal risk outside of the construction site(s) and while no public awareness campaigns have been held regarding construction emergency response, JFJV does put out public notices around any level of Project activity that may cause disruption outside the fence. The Project noted that it is currently working directly with DOK during construction to ensure hazards and risks are identified in the DOK's Hazard, Risk and Vulnerability Analysis (HRVA). DOK provided additional comment on public engagement in emergency response, stating that the DOK currently only has a mass notification system but it is moving to a different notification system in





March 2021 that allows them to provide notices (both emergency and non-emergency) to a large population in a short amount of time. DOK will be working closely with the Project to understand if there are any needs of this new system.

Terrace Fire Department provided a brief update on the Highway 37 task force that will continue to focus on building capacity for stakeholders and agencies to work together in the event of a significant motor vehicle incident e.g. bus rollover. Efforts in 2021 will focus on training.

Kitselas First Nation asked about plans to undertake a local emergency response capacity assessment for operations. The Project responded that this has already been done during the construction phase to understand the types of emergency scenarios and the level of response required. As the Project continues to transition into the future phases, such as operations, the Project's risk profile and emergency scenarios will be different, so detailed assessments and discussions will be completed to understand and ensure the adequate level of response capacity is met. The scenarios that the Project will be looking at include emergency response at the plant site itself and emergency management related to impacts on the community if a large event were to take over the site such as a large earthquake.

Community monitoring data on mental health related emergency response was presented during the working group session. The question was posed as to whether mental health services in the region need to be better supported by multiple agencies or if the system is handling this issue adequately. The RCMP stated that in Kitimat, many of its responses are to repeat residences (same address for similar reasons). As an example, in September, the Kitimat RCMP had 56 calls for service for one individual, however in December, there was one call with the same individual.

The RCMP is working on setting up a Kitimat situation table, which is a collaborative approach to address issues in a timely manner. It was noted that non-profit organizations are not always adequately trained to address people with mental health and addiction issues. The RCMP offered to share a resource guide outlining mental health awareness/first aid courses available in the community and encouraged that organizations, non-profits, government and the private sector can all train their staff to be able to identify people in crisis.

Kitselas First Nation made a comment that mental health is a priority for the community that has been elevated significantly in the past several months. In the next year, Kitselas First Nation is interested in looking at how this issue can best be addressed collaboratively to bridge service provides with Indigenous and non-Indigenous communities.

The SMR identified a number of recommendations to help track and/or manage changes in emergency response demand in the region (see Section 7, Table 4). No additional Project mitigation measures were identified in the SMR meeting.

## **6.5. Community Amenities, Education and Utilities**

The Project has implemented the following measures to manage Project-direct effects on community amenities, utilities and education during 2020 Q4:

- Limit the number of employees relocated to Kitimat with accompanying family.
- Non-local workforce hired on unaccompanied basis and provided accommodation at workforce accommodation centres. No LOAs paid.
- All workers required to complete code of conduct and cultural awareness training.

Joint venture companies



- Recreational facilities included at all workforce accommodation centres.
- Restrict non-local workers from using community resources.
- Implement waste management plan (solid waste, wastewater), send waste streams to approved facilities, avoiding use of municipal landfill.
- Make Cedar Valley Lodge self-sufficient (to the extent practicable) with respect to potable water and wastewater treatment services, avoiding additional service demands on municipal water and sewer services.
- Provide stakeholders with information on anticipated changes in resident populations attributable to the Project.

### 6.5.1. Amenities

In 2020 Q3 and Q4, there was an overall decrease in total facility/program attendance in Kitimat (Riverlodge Recreation Centre and Tamitik Jubilee Sports Complex) and Terrace (Terrace & District Aquatic Centre and Sportsplex), which was attributed to the COVID-19 pandemic. Municipal campgrounds were fully open in 2020 Q3, with Radley Park campground in Kitimat experiencing a 16% increase in attendance compared to 2019 Q3, and Ferry Island campground experiencing a minimal decline (1%) in attendance compared to 2019 Q3. 2020 Q3 data was not available for the Lakelse Lake Provincial Park at the time of reporting. Additional amenities monitoring data can be found in Appendix E. The availability of recreation facilities at Sitka Lodge, Sitka Annex 2, Crossroads Lodge and Cedar Valley Lodge, where non-local Project workers were lodged during 2020 Q3 & Q4, has minimized Project-related demand for community fitness facilities. No concerns or comments were raised during the working group session.

### 6.5.2. Education

The Coast Mountain School District<sup>5</sup> (CMSD) reported a 10% decrease in student enrolment in 2020/21 school year compared to the 2019/20 school year. Projections in future CMSD headcount indicate a drop of 64 students in K–12 student enrolment over the next 10 years (Ministry of Education 2021). No noticeable change in student enrolment was observed for St. Anthony’s Catholic School in Kitimat between the 2019/20 and 2020/21 school years. A limited number of Project staff with school aged children have moved into the region in the second half of 2020, with limited corresponding demand for K–12 education services.

The Coast Mountain College (CMTN) Terrace campus reported a 7% decrease in student enrolment in FY 2019–2020 compared to FY 2018-2019. UNBC Northwest Campus experienced a 75% decrease in enrolment in the 2020 summer semester (May to August) and a 38% decline in enrolment in the fall semester (September to December), compared to 2019. These trends reflect changes in some program offerings (e.g., in 2020/21, there were no course offerings in M.Ed. and other elective undergraduate courses), and attrition from cohort-based education programs including certificates and diplomas in education (Indigenous languages), and degree programs. For each particular program, cohorts of students transfer into UNBC from community colleges, approximately every two years (Bahr 2021). Additional education monitoring data can be found in Appendix E.

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<sup>5</sup> School District 82 (Coast Mountains) includes K-12 schools in Kitimat, Terrace, Kitwanga, New Hazelton, Hazelton, South Hazelton, and Stewart.



During the working group session, Kitimaat Valley Education Society (KVES) noted that it is working on building its 5-year and 10-year plans around the operations of LNG Canada and requested that LNG Canada provide information on its accreditation process. KVES confirmed that it has shifted to virtual programming due to COVID-19 and that LNG Canada would be required to move the YOUR PLACE training program to another location.

A consideration was voiced to add community data around childcare providers such as the Coast Mountain childcare provider. The Project noted that it would review additional childcare providers in the area (e.g., Haisla and Coast Mountain) and include the data in the next monitoring round.

### 6.5.3. Utilities

During Q3 and Q4 2020, waste generated at the Project site was sent to waste management facilities outside of Kitimat's municipal waste system. Non-hazardous solid waste was sent to the RDKS Forceman Ridge Waste Management Facility while hazardous wastes were sent outside the region. Project efforts are underway to reconcile a complete profile of waste from site disposed to approved facilities in 2020.

The Forceman Ridge waste management facility is located in the Regional District of Kitimat Stikine and serves a population of approximately 20,000 people, including the City of Terrace. The facility has a total capacity of over 1.5 million m<sup>3</sup>. In 2020 Q3 & Q4, 17,038 tonnes<sup>6</sup> of waste were disposed at the Forceman Ridge Waste Management Facility, a 73% increase compared to 2019 Q3 & Q4. Approximately 49% of the total waste disposed in the second half of 2020 was directly attributed to the Project. The Project is working directly with Forceman Ridge to plan for future anticipated waste volumes with consideration for future capacity.

During the working group session, it was asked if the Project's site orientation includes waste segregation. The Project responded that recycling is included in the orientation package for Cedar Valley Lodge but is not currently included in the day-long site access orientation session; however, orientation materials are constantly being re-evaluated. COVID-19 has delayed most orientations, but as workers come back to the site, the Project will have this as a consideration. Modifications have been made to the dining room and lodge itself to support waste segregation efforts. The Project noted that it would follow up on when/if it might be appropriate to add recycling practices into the in-class orientation.

Forceman Ridge indicated that the facility is experiencing an increase in requests by Project subcontractors to access its services and that it would be preferred if sub-contractors applied under the broad/umbrella permits already in place with the project. The Project noted that it would review which controlled waste permits are currently held for better line of sight and waste tracking and will work collaboratively with Forceman Ridge to reconcile permits.

The Project takes efforts to provide self-sufficient water treatment at site and began reporting influent and effluent flow rates from the water treatment system of Cedar Valley Lodge in 2020 Q4, coinciding with the start up of CVL operations. Average influent and effluent flow rates from Cedar Valley Lodge wastewater treatment system were 10,762 m<sup>3</sup>/day and 12,984 m<sup>3</sup>/day, respectively.

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<sup>6</sup> Total waste includes air-space consuming waste (asbestos, construction and demolition, refuse and sludge cake) and non-air-space consuming waste (construction and demolition [clean wood], organics, septage and soil).



Demand for potable water and wastewater flow in Terrace have generally increased in 2020 compared to that reported in 2019. The 2020 peak day demand for potable water remains lower than the 2018 peak day demand, while the opposite is observed for wastewater flow. 2020 Q3 & Q4 utilities data (water, sewage) was not available from DOK, however, it is expected that the Project has indirectly contributed to an increase in demand through potable water consumption and wastewater disposal by Sitka Lodge, Annex 2, and Crossroads Lodge during this period. The Project continues to make Cedar Valley Lodge self-sufficient (to the extent practicable) for potable water and wastewater treatment services. Additional utilities monitoring data can be found in Appendix E.

The SMR identified a number of a recommendations to help track and/or manage changes in education, amenities or utilities demand in the region (see Section 7, Table 4). No additional Project mitigation measures were identified in the SMR meeting.

## **7. SMR Summary and Actions**

Participants representing 34 stakeholder groups and First Nations participated in LNG Canada's 2020 Q4 virtual Social Management Roundtable meetings to review monitoring data, ask questions, and provide feedback and insights. Several provincial agencies participating at the roundtable also contributed to areas of community discussion above and beyond what the LNG Canada Project might be able to directly address. Table 4 summarizes action items for the LNG Canada Project team and SMR participants that were addressed in the last quarterly reporting cycle and now closed out, those that remain open, and new items identified during meetings that took place on February 23–24. Items identified as closed will be removed from the tracking table for future reference.



**Table 4 Status Update on SMR Working Group Action Items**

#	Working Group	Responsible Party	Action	Status
2020-Q3-1	-	LNG Canada Project Team	Follow up with Kermode Friendship Centre on Indigenous apprenticeship efforts and linkages to youth workforce development programs	<b>Open 02/16/21.</b> LNG Canada to meet with new Kermode leadership in early March 2021
2020-Q4-1	-	LNG Canada Project Team	Follow up with Kitimat and Terrace Chambers of Commerce to provide additional information on local business participation in Project supply chain	<b>NEW 02/23/21</b>
2020-Q2-1	Housing & Accommodations	LNG Canada Project Team	Incorporate available data on demand for social housing services which do not use BC Housing Applicant registry	<b>Open 02/16/21.</b> Wait list data obtained from M'Akola Housing Society. Efforts underway to evaluate available data from other housing organizations in the Terrace/Kitimat area.
2020-Q3-4	Housing & Accommodations	LNG Canada Project Team	Follow up with TSW, Kitimat CDC and Ksan Society for data illustrating housing affordability gap for clientele. TSW to share rental subsidy demand data for BC Housing Homelessness Prevention Program	<b>Open 02/16/21.</b> TSW has shared data from HPP survey. Data from BC Housing, Kitimat CDC, and Ksan society remain outstanding
2020-Q3-5	Housing & Accommodations	Ministry of Child & Family Development	Working with LNG Canada, convene childcare service providers, Ministry of Advanced Education and Skills Training Coast Mountain College to assess key drivers of childcare staffing shortages, awareness of available supports, and ways to support skills development	<b>Open 02/16/21</b> – LNG Canada has coordinated a facilitated discussion to take place in early March 2021. The session will provide an opportunity to assess the challenges the childcare services are facing and discuss solutions.
2020-Q4-2	Housing & Accommodations	District of Kitimat	Provide available information on Kitimat Cost of Living/ Living Wage	<b>NEW 02/23/21</b>
2020-Q4-3	Housing & Accommodations	LNG Canada Project Team	Consider broadening number of Kitimat childcare providers included in community monitoring	<b>NEW 02/23/21</b>
2019-Q3-17	Community Health	Northern Health	Consider providing data from mobile unit service to support SMR monitoring needs	<b>Open 02/16/21.</b> NHA following up on data request



#	Working Group	Responsible Party	Action	Status
2020-Q2-6	Community Health	Northern Health	Consider providing Intensive Crisis Management Team data to assess changes in service demand	<b>Open 02/16/21.</b> NHA following up on data request
2020-Q3-6	Community Health	Northern Health Authority	Provide clarification of health information flow to First Nations communities, including COVID-19 notifications protocols	<b>Open 02/16/21.</b> NHA following up on data request
2020-Q4-4	Community Health	Northern Health	Follow up on secondary transmission and epidemiological data for Q42020 LNG Canada site outbreaks	<b>NEW 02/23/21</b>
2020-Q4-5	Community Health	Northern Health	Follow up with Kitsumkalum Health Director on case and contact management capacity building engagements	<b>NEW 02/23/21</b>
2020-Q4-6	Community Health	LNG Canada	Consider applying a rate perspective to CLISMP data that considers population (incidence and prevalence) <a href="https://www.mdpi.com/2075-163X/1/1/30">https://www.mdpi.com/2075-163X/1/1/30</a>	<b>NEW 02/23/21</b>
2019-Q2-5	Traffic & Emergency Response	DOK (District of Kitimat) Engineering Services	Re-opened action from Q2. Recommendation to DOK to assess need for traffic light at Nalabila/Hwy 37 intersection	<b>Open 02/61/21.</b> The DOK traffic study report is delayed and will be finalized by April 2021. DOK to share Traffic Study results and any related infrastructure improvement plans at an upcoming SMR meeting.
2020-Q2-9	Traffic & Emergency Response	LNG Canada Project Team	Confirm if Traffic Impact Study (TIS) can be distributed to Working Group participants	<b>Open 02/16/21.</b> MOTI and DOK directly involved in TIS review. Traffic Management Plan (including TIS) will be available on the BC EPIC site in 2021. Link will be sent to SMR Participants.
2020-Q4-7	Traffic & Emergency Response	LNG Canada Project Team	Address issue of workers (traveling via charter hangar) entering main Airport terminal despite COVID-19 restrictions.	<b>NEW 02/24/21</b>



#	Working Group	Responsible Party	Action	Status
2020-Q4-8	Traffic & Emergency Response	LNG Canada Project Team	Share details from Traffic Incident Management Plan and Public Information Plan at the next SMR meeting	<b>NEW 02/24/21</b>
2020-Q4-9	Traffic & Emergency Response	WorkSafe BC	Provide an update at an upcoming SMR session on changes to emergency scene management	<b>NEW 02/24/21</b>
2020-Q4-10	Traffic & Emergency Response	MOTI	Provide most recent short count data, as applicable	<b>NEW 02/24/21</b>
2020-Q4-11	Traffic & Emergency Response	RCMP	Share Kitimat Resources for mental health training and supports for distribution to SMR participants	<b>NEW 02/24/21</b>
2020-Q4-12	Traffic & Emergency Response	LNG Canada Project Team	Follow up to collect available overdose response call data from ambulance services in Kitimat and Terrace	<b>NEW 02/24/21</b>
2019-Q4-14	Community Amenities, Utilities and Education	LNG Canada Project Team	Support City of Terrace in development of municipal capacity metrics	<b>Open 02/16/21.</b> Efforts underway with the City of Terrace to identify potential metrics that better reflect strain on community amenities e.g. parks
2020-Q4-13	Community Amenities, Utilities and Education	LNG Canada Project Team	Provide links to Terrace Shadow Population studies 2015 and 2020	<b>NEW 02/24/21</b>
2020-Q4-14	Community Amenities, Utilities and Education	LNG Canada Project Team	Consider ways to improve education of site workforce and CVL residents on compliance requirements for waste segregation e.g. during site orientation	<b>NEW 02/24/21</b>
2020-Q4-15	Community Amenities, Utilities and Education	LNG Canada Project Team	Follow up with Forceman Ridge to verify values reported in SMR Pre-read for Q3-Q4 2020 waste volumes received from LNG Canada Project	<b>NEW 02/24/21</b>
2020-Q4-16	Community Amenities, Utilities and Education	LNG Canada Project Team	Follow up with Forceman Ridge to confirm all known controlled waste permits directly associated the LNG Canada Project	<b>NEW 02/24/21</b>
2020-Q4-17	Community Amenities, Utilities and Education	LNG Canada Project Team	Follow up with KVES to share information on operational standards and accreditations to support KVES 5-year and	<b>NEW 02/24/21</b>



Joint venture companies



#	Working Group	Responsible Party	Action	Status
			10-year plans	

### 7.1. Next SMR Meeting

The next SMR meeting will take place virtually (via MS Teams) on May 4, 2021 for the 2021 Q1 monitoring period, recognizing that travel and social distancing constraints imposed by the COVID-19 pandemic continues to prohibit the opportunity for a face-to-face meeting on this occasion.



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## Appendix A GLOSSARY

Direct effects	An effect resulting from Project activities or related to the Project's temporary workforce.
Founded occurrence	An occurrence is founded if there is evidence that the incident actually occurred, or if there isn't evidence that it didn't occur. A founded occurrence is reported to Statistics Canada.
Hazardous Waste	Any waste that meets the definition of hazardous waste in Section 1 of the Hazardous Waste Regulation, pursuant to the Environmental Management Act.
Housing Stock	The total number of dwelling units in a defined area.
Indirect or Induced effect	An effect not attributable to Project activities directly, but rather due to community changes brought about by change in economic activity associated with the Project.
Non-Occupational Injury or Illness	<p>For an injury or illness to be considered non-occupational one of criteria below needs to be true.</p> <ol style="list-style-type: none"> <li>1. The employee is present in the work environment as a member of the general public.</li> <li>2. The symptoms that surface at work are solely due to non-work-related event or exposure that occurs outside the work environment.</li> <li>3. The injury or illness results from voluntary participation in a wellness program, or medical, fitness or recreational activity.</li> <li>4. The injury or illness results from eating, drinking or preparing food or drink for personal consumption.</li> <li>5. The injury or illness results from personal tasks at establishment outside assigned working hours.</li> <li>6. The injury or illness results from personal grooming, self-medication for non-work-related condition or are intentionally self-inflicted.</li> <li>7. The injury results from a motor vehicle accident in a Company parking area or Company access road during the commute.</li> <li>8. The illness is a common cold or flu.</li> <li>9. The illness is a mental illness, unless it is supported by an opinion from a physician or other licensed health care professional which states that is work-related</li> </ol>



Occurrence	A General Occurrence is the primary event record in the records management system and contains all the basic information about the offence(s) committed. It is the written record of a reported offence. In these data tables, the word 'occurrence' refers to the number of occurrence records, or files, that exist in the records management system.
Reporting metrics	Metrics used to measure and track the effectiveness and/or implementation of mitigation objectives.
Road Transport-related Incident or Near Miss	Accidents (Incidents) or actions that might have occurred if not stopped (near misses) that occur or may have occurred during road transport of materials or personnel to or at the Project site in Kitimat
Shadow population	Shadow population are assumed to only be in an area for the duration of their employment. "Soft Shadow" population consists of people who are living or staying in an area, who have a usual residence elsewhere and have not worked 30 or more days in an area in the past year. "Hard Shadow" population consists of people who are living or staying in an area who have a usual residence elsewhere and have worked 30 or more days in the area in the past year.
Social Management Plan (SMP)	Plans designed to manage the direct effects of the Project on local community services and infrastructure.
Social Management Roundtable (SMR)	A quarterly forum convened by LNG Canada and JFJV, to provide Project updates and evaluate the effectiveness of mitigation measures. Participation is invite-only and includes local/provincial government agencies, nearby Indigenous communities, and local service providers.
WCB Claim	When an employee cannot work because of an employment-related injury, a workers' compensation board (WCB) may award benefits as compensation for lost wages.



## Appendix B INFORMATION PROVIDERS

SMP	Organization	Information Provided
Housing & Accommodations	Hotel/ motels (STR Global)	Regional hotel/ motel occupancy rates (monthly)
	Airbnb postings	Range of units available (quarterly) and occupancy rates (daily)
	BC Northern Board of Real Estate (BCNREB); Multiple Listing Service; realtors	Average Residential Real Estate Prices and Units Sold (condos, houses) (monthly)
	Kitimat apartment landlords (Hillcrest, Kitimat Apartments, Oceanview, Kuldo Suites, Midtown Apartments); Facebook & Kijiji postings	Rental accommodations vacancy rate and average rental cost (monthly)
	Sitka Lodge and Annex 2 (Civeo) Crossroads Lodge (Horizon North)	Open lodge occupancy rate (monthly) Maximum capacity (monthly)
	Tamitik Status of Women (TSW); Ksan Society.	% of nights full/ average shelter occupancy (monthly) # of bed-stays and # of turn-aways (monthly)
	BC Housing; M'akola Housing Society.	Affordable housing units occupied (monthly) Wait lists for affordable/supportive housing (monthly) Social housing unit count (annual)
Traffic	Northwest Regional Airport (YXT)	Terminal Volume (Commercial Passengers) (monthly)
	BC MOTI	Monthly Average Weekday Traffic (MAWDT) (monthly)
	Insurance Corporation of BC (ICBC)	Traffic Collisions Reported (monthly)
Emergency Response	RCMP North District	Total calls for service (monthly) Number of founded criminal incidents by crime type (monthly)
	Kitimat Fire and Ambulance Services (KFAS); Terrace Fire Department, Thornhill Fire Department	Number of firefighter response incidents (monthly)
	KFAS; BCEHS	Number of ambulance/ medical related incidents (monthly)
	Statistics Canada	Crime rate (annual) Criminal Code of Canada (CCC) offences (annual)
Community Amenities	District of Kitimat (DOK); City of Terrace (COT)	Community program attendance (monthly) Recreation facility attendance and hours of operation (monthly) Fitness program attendance (monthly)



Joint venture companies



SMP	Organization	Information Provided
Education	Kitimat Community Development Centre (CDC); Haisla Nation Council	Childcare registration, licensed spaces, and waitlist (quarterly)
	Coast Mountain School District #82 (CMSD); Independent Schools	Student enrolment (annual) Number of educators, including teachers, administrative and supporting staff (annual)
	University of Northern British Columbia (UNBC); Coast Mountain College (CMTN); Kitimaat Valley Education Society (non-profit; KVES)	Student enrolment (annual or by semester)
Utilities	DOK; COT	Potable water and sewage services average daily demand, peak day demand, and rated capacity (annual)
	Regional District of Kitimat-Stikine (RDKS)	Landfill demand, lifespan, and estimated population served (annual)

## Appendix C 2020 Q2 SMR WORKING GROUP PARTICIPANTS

Community	Organization	Attendees
<b>Housing and Accommodations Working Group</b>		
Project Team	LNGC	Nina Arvanitidis (Social Performance), Jenn Prochera (Community Relations), Hope Regimbald (Indigenous Relations), Ilyas Begaliyev (Real Estate), Morganne Williams (ER), Courtney Nolan (Real Estate)
	JFJV	Daria Hasselmann (Community Impacts)
	Support	Frank Bohlken (Stantec), Tala Al-Obaidi (Stantec), Jennifer Davies (Earncliffe), Rachel Klassen (Earncliffe)
First Nations	Haisla	Crystal Smith
	Kitsumkalum	Rina Gemeinhardt, Alissa Cartwright (Kwusen Research and Media)
	Kitselas	Chris Apps
District of Kitimat	DOK	Angie Lucas, Warren Waycheshen
	Kitimat Community Services Society	Cyndi McIntosh
	Tamitik Status of Women	Jordana Velho
	Kitimat Community Development Centre	Marianne Hemmy
City of Terrace	City of Terrace	David Block
	Ksan House Society	Amanda Owens, Elaine McGillivray, Lisa Schmidt
	Terrace Chamber of Commerce	Michelle Taylor
	Terrace and District Community Service Society	Julie San Juan
Regional District of Kitimat-Stikine	Economic Development	Maggie Hall
Province of BC	LNGC Implementation Secretariat	Rosanna Breiddal, Sarah Saaed, Joe Masi
	Municipal Affairs	Kris Nichols
	Attorney General and Housing	Cimarron Corpe, Avery Kelly, Carol Ann Hudson
	Social Development and Poverty Reduction	Norris Miller, Jennifer Miller
	Children & Family Development	Michelle Kirby
	BC Housing	Valerie Hare



Community	Organization	Attendees
<b>Community Health Working Group</b>		
Project Team	LNGC	Nina Arvanitidis (Social Performance), Jenn Prochera (Community Relations), Hope Regimbald (Indigenous Relations), Shalin Kashyap (Corporate Security), Stephanie Mah (Health), Morganne Williams (ER), Rob Simpson (HSSE), Christopher Heard (Indigenous Relations), Johnna Van Keuren (HSSE)
	JFJV	Daria Hasselmann (Community Impacts), Bianca Malouf (Health)
	Support	Frank Bohlken (Stantec), Tala Al-Obaidi (Stantec), Jennifer Davies (Earnscliffe), Rachel Klassen (Earnscliffe)
First Nations	Haisla	Crystal Smith
	Gitga'at	Christa Meuter
	Kitselas	Chris Apps, Janis Shandro
	Kitsumkalum	Charlene Webb, Alissa Cartwright (Kwusen Research and Media)
District of Kitimat	DOK	Warren Waycheshen
	Kitimat Community Services Society	Cyndi McIntosh
	Tamitik Status of Women	Jordana Velho
	Kitimat Community Development Centre	Marianne Hemmy
	Kitimat Fire & Ambulance Service	Trent Bossence
	RCMP	Graham Morgan
City of Terrace	City of Terrace	Deklan Corstanje
	Ksan House Society	Amanda Owens, Elaine McGillivray, Lisa Schmidt
Regional District of Kitimat-Stikine	Economic Development	Maggie Hall
Province of BC	LNGC Implementation Secretariat	Rosanna Breiddal, Sarah Saaed, Joe Masi
	Northern Health	Raina Fumerton, Chelan Zirul
	First Nations Health Authority	Coco Miller
	Municipal Affairs	Kris Nichols
	BC Emergency Health Services	Cheryl Spencer, Deb Trumbley



Community	Organization	Attendees
<b>Traffic and Emergency Response Working Group</b>		
Project Team	LNGC	Nina Arvanitidis (Social Performance), Jennifer Prochera (Community Relations), Hope Regimbald (Indigenous Relations), Morganne Williams (ER), Ilyas Begaliyev (Real Estate), Rob Simpson (HSSE), Beau Cauchy (Logistics), Courtney Nolan (Real Estate)
	JFJV	Daria Hasselmann (Community Impacts), Dennis Earman (HSSE)
	Support	Frank Bohlken (Stantec), Tala Al-Obaidi (Stantec), Jennifer Davies (Earncliffe), Rachel Klassen (Earncliffe)
First Nations	Haisla	Crystal Smith
	Kitselas	Chris Apps, Janis Shandro
District of Kitimat	DOK	Warren Waycheshen
	Kitimat Fire & Ambulance Service	Trent Bossence
	Kitimat RCMP	Graham Morgan
	Kitimat Community Services Society	Cyndi McIntosh (Victim Services)
City of Terrace	City of Terrace	Deklan Corstanje
	Terrace Fire Department	Dave Jephson
	Northwest Regional Airport Terrace-Kitimat (YXT)	Dave Kumpolt
Province of BC	LNGC Implementation Secretariat	Rosanna Breiddal, Sarah Saaed, Joe Masi
	BC Emergency Health Services	Cheryl Spencer
	WorkSafeBC	Lawrence Joice
	Municipal Affairs	Kris Nichols, Yaheli Klein
	ICBC	Doug MacDonald
	MOTI	Daniel Baker, Nathan Voogd
	RCMP	Alanna Dunlop, Rob Pikola

Joint venture companies



Community	Organization	Attendees
<b>Community Amenities, Education and Utilities Working Group</b>		
Project Team	LNGC	Nina Arvanitidis (Social Performance), Jennifer Prochera (Community Relations), Hope Regimbald (Indigenous Relations), Morganne Williams (ER), Pam Staples (Waste Management), Tariro Mpoperi (HR), Courtney Nolan (Real Estate), Ilyas Begaliyev (Real Estate)
	JFJV	Daria Hasselmann (Community Impacts), Gord Mach (Waste Management), Dean Aikenhead (Waste Management)
	Support	Frank Bohlken (Stantec), Tala Al-Obaidi (Stantec), Jennifer Davies (Earnscliffe), Rachel Klassen (Earnscliffe)
First Nations	Haisla	Crystal Smith
District of Kitimat	Kitimat Chamber of Commerce	Laurel D'Andrea
	Kitimat Valley Education Society	Jennifer Lewis
City of Terrace	City of Terrace	Deklan Corstanje
	Terrace Chamber of Commerce	Michelle Taylor
	Coast Mountain School District	Geraldine Lawler
Regional District of Kitimat Stikine	Forceman Ridge Waste Management Facility	Nicole Lavoie
Province of BC	LNGC Implementation Secretariat	Rosanna Breiddal, Sarah Saaed, Joe Masi
	Municipal Affairs	Kris Nichols, Yaheli Klein, John Antill



## Appendix D PROJECT REPORTING 2020 Q3 & Q4

**Table D.1 LNG Canada Project Metrics—Housing & Accommodations**

<b>Housing &amp; Accommodations (also Education, Amenities)</b>	<b>Jul</b>	<b>Aug</b>	<b>Sept</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
Project local (resident) workforce	770	811	758	733	760	640
Project non-local workforce— temporarily housed at Open Lodges <sup>7</sup> in Kitimat (average beds)	1,226	918	662	341	178	0
Project non-local workforce— temporarily housed on site at Cedar Valley Lodge (CVL) (average beds)	336	792	1,298	1,918	2,249	1,572
Project non-local workforce temporarily staying at Kitimat hotels or lodges	0	0	0	0	0	0
Project non-local workforce temporarily staying at Terrace hotels or lodges	0	0	0	0	0	0
Project staff re-located to Kitimat, presently staying in company provided housing	40	42	43	46	54	51
Accompanying school-aged children of relocated Project staff	24	28	28	18	25	20
Number of housing related concerns or complaints	0	0	0	0	1	0

SOURCES: CIMP Reports (JFJV); LNGC-reported CLISMP data

<sup>7</sup> Non-local workforce housed in Kitimat at Sitka Lodge, Crossroads Lodge, Sitka Annex 2 Lodge and a small number of visitors at Haisla Town Centre during the reporting period. Sitka Lodge not used by Project after September 2020. Annex 2 no used by Project after November 2020





**Table D.2 LNG Canada Project Metrics—Traffic**

<b>TRAFFIC</b>	<b>July</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>
Number of daily Project bus trips from Northwest Regional Airport (YXT) to Kitimat (avg. passengers/day)	4 (32)	3 (32)	4 (35)	5 (36)	6 (35)	7 (23)
Number of daily Project bus trips from Terrace Park & Ride to Kitimat (avg. passengers/day)	14 (87)	16 (88)	16 (88)	17 (103)	18 (105)	22 (88)
Number of daily Project bus trips from Kitimat and Kitimaat Village Park & Ride to Site (avg. passengers/day)	84 (123)	79 (116)	67 (158)	23 (52)	37 (55)	Not available
Number of road transport-related incidents and near misses	4	2	8	5	6	5
Number of Project personnel on commercial flights through airport per month	924	1,267	1,035	1,178	1,245	755
Number of Project personnel on charter flights	1,377	2,047	3,084	5,859	3,434	1,848
Provision of project transportation plans to transportation authorities	0	1	1	2	0	1
Notifications to service providers and the public regarding scheduling of transportation equipment	0	0	0	0	0	0
Number of meetings with transportation authorities on traffic management, congestion, and road safety	1	1	2	2	0	1
Number of traffic related concerns or complaints	3	3	2	1	1	1

SOURCES: CIMP Reports (JFJV); LNGC-reported CLISMP data



**Table D.3 LNG Canada Project Metrics—Emergency Response & Health**

<b>EMERGENCY RESPONSE &amp; HEALTH<sup>1</sup></b>	<b>July</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>
Number of ambulance service calls to worker sites	6			16 <sup>2</sup>		
Number of fire department service calls to worker sites	1			0		
Number of RCMP service calls to worker sites	7 <sup>3</sup>			3		
Number of meetings held to coordinate and plan emergency response	5	2	2	4	1	1
Number of emergency response related concerns or complaints	0	0	0	0	0	0
Number of workplace occupational injuries and illnesses requiring treatment at local hospitals	13			13		
Number of workplace non-occupational injuries and illnesses requiring treatment at local hospitals	32			31		
Number of workplace injuries or illnesses requiring medevac	0			0		
Number of recordable occupational injuries	7			3		
Number of recordable non-occupational injuries	Not available <sup>4</sup>			3,618		
Number of notifications to health authorities for occurrence of communicable illnesses/diseases	107 <sup>5</sup>			189 <sup>6</sup>		
Percentage of worked who have signed the Worker Code of Conduct	100%	100%	100%	100%	100%	100%
Percentage of workers who have completed Cultural Awareness Training <sup>7</sup>	86%	98%	100%	100%	100%	100%
Number of community health related concerns or complaints	0	3	0	0	3	1

**NOTES:**

- <sup>1</sup> Health & Emergency Response metrics are compiled from 5 sources: JFJV site (including Cedar Valley Lodge); LNGC (CPI contractors); Sitka Lodge medical services provider, Sitka annex 2 medical services provider, and Crossroads Lodge medical services provider
- <sup>2</sup> Increase in ambulance calls primarily attributed to the workforce increase and related medical conditions (cardiac, diabetes, epilepsy).
- <sup>3</sup> Higher number of RCMP calls to site for September 2020 were due to: (1) worker intoxication; (1) worker mental health issue; (5) 911 pocket dials
- <sup>4</sup> JFJV non-occupational injury and illness data was previous not included for Q1–Q3 2020. Efforts underway to represent comprehensive FY2020 data in the 2020 Annual CLISMP report. Refer to definition in Glossary.
- <sup>5</sup> Notifications to health authorities (Northern Health) during 2020 Q3 primarily related to COVID-19 management
- <sup>6</sup> Notifications to health authorities (Northern Health) during 2020 Q4 primarily related to COVID-19 management
- <sup>7</sup> Cultural Awareness Training can be completed within 30 days of attending Orientation. In order to teach in a meaningful way JFJV has capped the class size at 30 people. A process is in place to ensure all workers complete this training.



**Table D.4 LNG Canada Project Metrics—Utilities**

NOTE: Q3 and Q4 2020 waste values indicated in this report have been updated from those shared in the Q4 2020 SMR pre-read pack and in the previous Q3 2020 CLISMP SMR Summary Report

UTILITIES	July	August	September	October	November	December
Weight (metric tons) of waste streams generated by Cedar Valley Lodge	13	105	75	68	127	116
Volume/weight of hazardous liquids sent to approved facilities <sup>1</sup> (litres)	57,640	49,515	16,558	21,600	14,010	187,825
Volume/weight of hazardous solids sent to approved facilities (metric tons)	1,200	1,100	0	3,000	5,244	5,900
Volume/weight of non-hazardous solids sent to municipal waste management facilities <sup>2</sup> (metric tons)	449	246	728	2,346 <sup>3</sup>	462	489
Influent and effluent flow rates from Cedar Valley Lodge wastewater treatment system (m <sup>3</sup> / day)	Not available <sup>4</sup>		5,730 / 8,830	8,730 / 12,508	10,242 / 15,500	9,535 / 14,723
Number of municipal utility related concerns or complaints	0	0	0	0	0	0

**NOTES:**

- <sup>1</sup> No facilities in the Kitimat-Terrace area are currently approved to receive hazardous liquids. All hazardous liquids are currently disposed outside the region
- <sup>2</sup> Efforts underway to reconcile multiple waste streams and improve reporting accuracy. Waste values may be underrepresented.
- <sup>3</sup> During October 2020, 1,716 metric tons of waste soils were disposed at the Forceman Ridge Waste Management Facility. Waste soils are utilized as filling and grading materials and do not consume landfill capacity.
- <sup>4</sup> Cedar Valley Lodge commissioned its wastewater treatment facility in June 2020 with steadily increasing worker population using the facilities during 2020 Q3. Influent / Effluent rates will be reported for September 2020 onwards
- <sup>5</sup>



## Appendix E 2020 Q3 & Q4 COMMUNITY REPORTING TRENDS

### E.1 Housing and Accommodations

Key 2020 Q3 & Q4 trends in housing and accommodations identified from community reporting:

#### Region

- In Q3/Q4 2020, hotel and motel occupancy rates averaged 42.7%. The yearly average occupancy rate in 2020 (39.4%) was 20.0 percentage points lower than in 2019 (59.4%) and 10.0 percentage points lower than in 2018 (49.4%) but equal to the yearly rate in 2017 (STR 2021). The decrease in occupancy rates in 2020 is attributed to COVID-19 travel restrictions and business closures.
- In 2020 Q4, the number of residential houses sold in 2020 Q4 were up 32% compared to 2019 Q4 in Terrace and up 30% compared to 2019 Q4 in Kitimat.

#### Kitimat

- Open lodge utilization peaked in July 2020 with over 1,500 occupants on average including staff. There has been a steady decline in average occupancy since July 2020, dropping to a low of 418 occupants in December 2020 (Civeo 2021 and Horizon North 2021). This is likely attributed to the closure of the Crossroads Lodge and travel restrictions implemented due to COVID-19.
- BC Housing social housing units<sup>8</sup> in Kitimat have increased from 89 units in 2020 Q2 to 110 units in 2020 Q4 (+24%) (BC Housing 2021).
- Applicant households on the Housing Registry in Kitimat increased from 14 to 18 between 2020 Q2 and 2020 Q3 and dropped slightly to 15 units in 2020 Q4 (BC Housing 2021).
- In 2020 Q3/Q4, the Dunmore Place Transition House experienced a drop in nights full (%), from 84% to 13% since 2019 Q3/Q4 (TSW 2021a), and a 41% decrease in bed-stays between in 2020 Q3/Q4 compared to 2019 Q3/A4 TSW 2021a).
- In 2020 Q3 & Q4, there was a decrease in online rental listings in Kitimat (67 listings in 2020 Q3/Q4 compared to 128 listings in 2020 Q1/Q2).
- Average rent in 2020 Q3/Q4 was estimated at \$1,850 per month for furnished 2-bedroom apartments and \$1,394 per month for all apartments
- In 2020 Q3/Q4<sup>9</sup>, Kitimat total rental vacancy rate was estimated<sup>10</sup> at 9.15% (BRA and Stantec 2021).

<sup>8</sup> BC Housing only tracks units where there is a financial relationship. There may be other subsidized housing units in the community.

<sup>9</sup> At the time of the report, one property management company was unable to share complete information about rent and available units; For this property, only the total number of available units were given. The number of available units were distributed proportionally according to the total number of units of each type.

<sup>10</sup> BRA rental market estimates based on telephone surveys of property management companies (five major property management companies in Kitimat), CMHC, and data from online listings for suites and other off-market rental listings.

Joint venture companies



- Housing prices in 2020 Q4 decreased 15.8% from the 2019 Q2 high but remains 27.9% higher than the pre-FID price (average price: \$341,405 as of 2020 Q4) (BRA and Stantec 2021). In 2020 Q3, there were 20 units sold, which was unchanged from 2020 Q2, and down 33% relative to 2019 Q3 (BRA and Stantec 2021). In 2020 Q4, there were 29 units sold, which was a 95% increase relative to 2020 Q3 and a 30% increase relative to 2019 Q4 (BRA and Stantec 2021).

## Terrace

- BC Housing social housing units in Terrace remained relatively stable since 2020 Q2, only decreasing by 3% from 555 units in 2020 Q2 to 569 units in 2020 Q4 (BC Housing 2021).
- The Ksan Residence and Shelter (KRS) experienced a 63% drop in percentage points in 2020 Q3/Q4 compared to 2019 Q3/Q4 (Ksan Society 2021).
- Average % nights full or overfull at the Terrace Transition House decreased by 71 percentage points between 2019 Q3 and 2020 Q3 and decreased by 27 percentage points between 2019 Q4 and 2020 Q4 (Ksan Society 2021).
- Occupancy rates at the M'akola Housing units were 1% lower in 2020 Q3 (July and August only) than in 2019 Q3, with at least 89% of the units occupied during each month (M'akola Housing Society 2021). No data is available for Q4 2020.
- In 2020 Q3/Q4, there was a decrease in online rental listings in Terrace (42 listings in 2020 Q3/Q4 compared to 96 in 2020 Q1/Q2).
- In Q3/Q4 2020, Terrace rental market was estimated<sup>11</sup> at 4.6% vacancy, which is 3.1 percentage points higher than in the first half of 2020 (1.5%) and 2.1 percentage points higher than the provincial average in the second half of 2020 (2.5%) (BRA and Stantec 2021).
- The average quarterly residential house resale price increased 6% in 2020 Q3 compared to 2020 Q2 (BRA and Stantec 2021). The average quarterly residential house resale price decreased 1.4% in 2020 Q4 compared to 2020 Q3 and increased 4.2% compared to 2019 Q4 (BRA and Stantec 2021). Units sold in 2020 Q4 were up 32.4% compared to 2019 Q4 (BRA and Stantec 2021).

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<sup>11</sup> BRA rental market estimates based on telephone surveys of property management companies in Terrace (seven of the nine property management firms in Terrace).



## E.2 Community Health

Key 2020 Q3 & Q4 trends in community health identified from community reporting:

### Kitimat

- Kitimat General Hospital:
  - 2020 Q3 emergency room (ER) visits to Kitimat General Hospital (KGH) decreased 10% compared to Q3 2019, while visits in 2020 Q4 was 3% lower than Q4 2019 (Northern Health 2021).
  - Decline consistent with a pattern seen across the Northern Health Authority (NHA) region and in other regions of BC, resulting from public-health measures put in place in response to the COVID-19 pandemic (Northern Health 2021).
  - The proportion of ER admissions from outside the NHA HSDA in 2020 Q3 was lower than in 2019 Q3 but remained unchanged in 2020 Q4 compared to 2019 Q4 (Northern Health 2021).
  - Most (66%) of ER visits in 2020 Q3/Q4 were unscheduled; which is similar to that observed in 2019 Q3/Q4 (67%) (Northern Health 2021).
- Mental Health:
  - In 2020, 12 patients were transferred from KGH to MMH for adult psychiatry (Northern Health 2021).
  - Within the TSW's Homeless Protection Program, 49% of family units have known and confirmed cases of mental health and addiction (TSW 2021b).
    - KFAS reported 119 calls related to mental health in 2020, compared to 122 mental health related called in 2019 (Bossence 2021, KFAS 2021).
  - In 2020, the Kitimat RCMP responded to 274 mental health occurrences, a drop of 21% compared to 2019, but similar to the 268 occurrences responded to in 2018.

### Terrace

- Mills Memorial Hospital:
  - ER visits to Mills Memorial Hospital (MMH) in 2020 Q3 and Q4 declined 10% and 14% respectively compared to 2019 Q3 and Q4 (Northern Health 2021).
  - Proportion of ER admissions from outside the NHA HSDA was 6% in 2020 Q3 and Q4, which was slightly lower to the rate experienced in 2019 Q3/Q4 (7%) (Northern Health 2021).
  - Approximately 83% of ER visits to MMH in 2020 Q3 & Q4 were unscheduled, comparable to the rates of unscheduled visits experienced in 2019 (Northern Health 2021).

#### Mental Health:

Social determinants of health (SDOH) are the economic and social conditions that influence the health outcomes of populations. Determinants of health monitored within the scope of the CLISMP include employment/ working conditions, accessible housing, and use of medical services. It is assumed that the availability and accessibility of community infrastructure and services would influence personal and community health. The following describes trends in community health indicators identified from 2020 Q3 & Q4 community reporting:





- Increased demand for more non-market, supportive and emergency housing options in both communities (M'akola Housing Society 2020).
- In Kitimat the number of overall founded occurrences generally increased in 2020 Q3/Q4 compared to 2019 Q3/Q4, while the overall founded occurrences in Terrace generally decreased in 2020 Q3/Q4 compared to 2019 Q3/Q4 (RCMP 2021).
- In response to the pandemic, reduced capacity at emergency shelters, increased sanitation work, and reduced ability to provide non-resident support services (Ksan Society 2021, TSW 2021a).
- In 2020, EWR shelters have continued to run at nearly full capacity all summer and into the fall.

### E.3 Traffic

Key 2020 Q3 & Q4 trends in traffic identified from community reporting are:

#### Kitimat-Terrace Region

- 2020 Q3/Q4 traffic volumes have been on average 0.4% higher than for 2019 Q3/Q4 (MOTI 2021).
- There was a 49% decrease in commercial air passengers in 2020 Q3 compared to 2019 Q3, and a 56% decrease in 2020 Q4 compared to 2019 Q4 (YXT 2021).
- The dip in commercial air passengers in Q4 is likely a result of COVID-19 travel restrictions enforced by the BC government.

### E.4 Emergency Response

Key 2020 Q3 & Q4 trends in emergency services identified from community reporting are:

#### Kitimat

- In 2020 Q3, there was a 26% increase in fire related calls to the Kitimat Fire and Ambulance Service (KFAS) compared to 2019 Q3, followed by a 94% increase in calls in 2020 Q4 compared to 2019 Q4 (KFAS 2021).
- 25% increase in KFAS medical related (ambulance) calls in 2020 Q3 compared to 2019 Q3, and a 19% increase in 2020 Q4 compared to 2019 Q4 (KFAS 2021).
- 15% increase in total calls for service<sup>12</sup> to the KFAS between 2019 Q3/Q4 and 2020 Q3/Q4 (KFAS 2021).
- Increase attributed to a combination of factors which includes support to BCEHS in Terrace (e.g., transfers and cross-coverage), local population increase, population demographics (i.e., aging population) increasing mental health needs (exacerbated by COVID-19), and upgrades to rental home fire alarms.
- In 2020 Q3, Kitimat RCMP received a 7% increase in calls for service compared to 2019 Q3, followed by a 14% increase in 2020 Q4 compared to 2019 Q4 (RCMP 2021).

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<sup>12</sup> Inclusive of fire related calls, medical related calls, rescue related calls, trouble calls, and emergency response calls, but not including transfers or calls related to dangerous goods.

Joint venture companies



- In 2020, there was a 14% increase in total founded/reportable crime-related occurrences for the Kitimat detachment compared to 2019 Q3, and a 20% increase in occurrences in 2020 Q4 compared to 2019 Q4 (RCMP 2021).

## Terrace

- 2020 Q3 Terrace Fire Department (TFD) calls decreased by 66% compared to 2019 Q3, while Q4 saw a 55% reduction between 2019 and 2020 (Terrace Fire Department 2021). From 2019 to 2020 there was a change in how some types of calls were routed to the TFD, resulting in a reduction in non-emergency and medical related calls (Jephson 2020).
- In Q3, Terrace ambulance services (BCEHS [BC Emergency Health Services]) experienced an 8% increase in total calls for service<sup>13</sup> (BCEHS 2021) and 13% decrease in urgent calls requiring “lights and sirens” response between 2019 and 2020 (BCEHS 2021).
- Terrace RCMP received a 15% decrease in calls in 2020 Q3 compared to 2019 Q3, followed by a 11% decrease in calls in 2020 Q4 compared to 2020 Q4 (RCMP 2021).
- In 2020 Q3, there was a 15% decrease in total founded/reportable occurrences for the Terrace detachment compared to 2019 Q3, and an 8% decrease in incidents in 2020 Q4 compared to 2020 Q4 (RCMP 2021).

## E.5 Community Amenities

Key 2020 Q3 & Q4 trends in community amenities are:

### Region

- Total camping attendance at the Lakelse Lake Provincial Park increased 14% in June 2020 compared to June 2019 (BC Parks 2020). No attendance data is available for Q3 2020 (Mernickle 2021).

### Kitimat

- 51% decrease in community program<sup>14</sup> attendance at the Riverlodge Centre and other community facilities between 2019 Q3 and 2020 Q4 (DOK 2021a). A 12% decrease was observed for 2020 Q4 compared to 2019 Q4.
- In 2020 Q3, there was an 85% decrease in total facility attendance (Sam Lindsay Aquatic Centre and Tamitik Sports Complex) compared to 2019 Q3 (DOK 2021a). A 63% decrease in total facility attendance was experienced in 2020 Q4 compared to 2019 Q4.
- 16% increase in Radley Park campers during 2020 Q3 compared to 2019 Q3 (normal camping season: May 15-September 15) (DOK 2021a).

<sup>13</sup> Total calls for service: Medical Priority Dispatch System (MPDS) events in the Terrace Response Area.

<sup>14</sup> Community programs include youth and adult fitness/sports programs, pre-school/babysitting, outdoors programs and youth summer playground programs.



## Terrace

- No membership scans for the pool occurred in 2020 Q3 and Q4 since the pool's reopening in September 2020.
- Pool drop-in customers decreased by 82% in 2020 Q3 compared to 2019 Q3 due to the pool's closure over most of this period. In 2020 Q4, a 29% decrease was observed compared to 2019 Q4.
- Terrace Sportsplex fitness class attendance decreased by 84% in 2020 Q3 compared to 2019 Q3 and decreased by 92% in 2020 Q4 compared to 2019 Q4 (COT 2021a). Classes closed in December 2020 in response to the COVID-19 pandemic.
- In 2020 Q3, there was a minimal 1% decline in Ferry Island campers (Terrace) compared to 2019 Q3 (normal camping season: May-September) (COT 2021a).

## E.6 Education

Key 2020 Q3 & Q4 trends in education are:

### K-12

- A 10% decrease in Coast Mountain School District (CMSD) total headcount was observed between the 2019/20 and 2020/21 K-12 enrolment years (Ministry of Education 2021).
- In January 2020, CMSD projected a decrease of 64 students over the next 10 years (Ministry of Education 2021).

### Childcare

- Kitimat
  - The Kitimat Community Development Centre (CDC) provides licensed childcare centres in Kitimat. It has a maximum capacity of 127 spaces across pre-school, group childcare and multi-age childcare (Kitimat CDC 2021).
  - In 2020 Q3 and Q4, Kid's Place Preschool held three sessions with a total of 40 kids attending across these sessions.
  - At Kildala Nursery and Out of School Care (OOSC), the preschool did not run in 2020 Q3 and Q4 due to low enrolment. OOSC ran during this time but at below capacity (12 to 15 children).
  - The majority of daycare services at the Stepping Stones (Roy Wilcox) Child Care Centre did not run in 2020 Q3/Q4 due to lack of staff and/or COVID-19 restrictions implemented in November 2020. Only one service type (310 Multi-Age Child Care) was running in Q3/Q4, serving 8 children.
  - Kitimat CDC continues to lose qualified staff to industry with difficulty attracting new staff coming from other communities due to high rental costs (Hemmy 2021).
  - Childcare programs are operating below capacity due to staffing shortages (Infant Toddler (ages 0-3) waitlist increased from 40 to 50 between Q2 and Q4 2020) (Hemmy 2021).
- Terrace
  - No new Terrace childcare data is available for 2020 Q3 and Q4.



## Post-Secondary Institutions

- No new data from the Kitimat Valley Institute (KVI) is available for 2020 Q3/Q4. KVI offers a range of training opportunities to meet academic, industry, and institutional training.
- The Coast Mountain College (CMTN) Terrace campus reported a 7% decrease in student enrolment in FY 2019-2020 compared to FY 2018-2019 (CMTN 2021).
- UNBC Northwest Campus<sup>15</sup> data shows a 75% decrease and 38% decrease in student enrolment<sup>16</sup> in the Summer and Fall semesters<sup>17</sup>, respectively, between 2019 and 2020 (UNBC 2021).
  - Trends reflect changes in some program offerings (e.g. in 2020/2021 no course offerings in M.Ed., and other elective undergraduate courses).
  - Also reflect attrition from cohort-based education programs, including certificates and diplomas in education (Indigenous languages), and degree programs. For each particular program, cohorts of students transfer into UNBC from community colleges, approximately every two years (Bahr 2021)
  - Only one new cohort started in the 2020/2021 school year (Haisla language and culture)

## E.7 Utilities

Key 2020 Q3 & Q4 trends in utilities are:

### Potable Water & Sewage Services

- Kitimat
  - No new water services data from DOK was available for 2020 Q3 and Q4.
- Terrace
  - 6% decrease in average daily flow and a 3% increase in peak day demand for COT potable water between 2019 and 2020 (COT 2021b).
  - 6% increase in the average daily flow for COT wastewater treatment services between 2019 and 2020, as well as a 19% increase in peak daily flow (COT 2021b).

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<sup>15</sup> Northwest Campus includes Kitimat, Terrace, Hazelton, Prince Rupert, Haida Gwaii and sometimes Smithers (depending on the demand)

<sup>16</sup> Includes undergrad and grad programs.

<sup>17</sup> Winter semester: Jan-Apr; Summer semester: May-Aug.



## Landfills

The following summarizes the status of landfills in the region based on latest available data:

- Forceman Ridge Landfill (Operated by RDKS)
  - Landfill capacity/lifespan (as of 2020): 95 years (RDKS 2021)
  - A 116% increase in total waste<sup>18</sup> disposition at the Forceman Ridge Waste Management Facility was experienced in Q3 2020<sup>19</sup> compared to Q3 2019, which is attributed to the facility accepting waste from CGL and LNG Canada (RDKS 2021).
  - Total waste disposed of in 2020 Q4 was approximately 7,234 tonnes, which was a 35% increase compared to 2019 Q4 (RDKS 2021).
  - Waste received at Forceman Ridge Waste Management Facility from out of the service area accounted for 63% of total waste received in Q3 and 57% of total waste received in Q4.
  - The LNG Canada Project contributed a significant portion of waste quantities from out of the service area in 2020 Q3 and Q4 comprising 49% and 48% of the total waste received at Forceman Ridge Waste Management Facility, respectively (RDKS 2021)<sup>20</sup>. Waste soils accounted for almost half of the out of service area waste profile in Q4—waste soils are utilized as filling and grading materials and do not consume landfill capacity.
  - Population served (as of 2020): approximately 20,000 people (RDKS 2020a)
  - Permitted to receive industrial waste
- Kitimat Landfill (Operated by DOK)
  - The Kitimat landfill experienced a 21% increase in total waste disposed in 2020 compared to the 2017-2019 average (DOK 2021b).
  - The District of Kitimat landfill is expected to reach capacity in 2047 (RDKS 2019). The District has developed a draft solid waste management plan and is assessing the landfill's life expectancy (RDKS 2020c).
  - Not permitted to receive industrial waste.
- City of Terrace
  - There are no operating landfills within the City of Terrace (RDKS 2019). The City discharges landfill waste to the RDKS owned and operated Thornhill Transfer Station and Forceman Ridge Landfill (COT 2021b).

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<sup>18</sup> Total waste includes air-space consuming waste (asbestos, construction and demolition, refuse and sludge cake) and non-air-space consuming waste (construction and demolition [clean wood], organics, septage and soil).

<sup>19</sup> Due to recent changes in the scale of process at Forceman Ridge Waste Management Facility, a breakdown of waste types for Q3 2019 and Q3 2020 is not available.

<sup>20</sup> LNG Canada and JFJV continue to work with Forceman Ridge on waste monitoring and reporting. LNG Canada's waste disposal values may be underrepresented.