From: Mungall, Michelle EMPR:EX

Sent: December 20, 2018 4:27 PM

To: Duncan, Kate EMPR:EX

Subject: Re: Letter to MMM re: Hydraulic Fracturing Review Panel

I approve.

Sent from my iPhone

On Dec 20, 2018, at 4:19 PM, Duncan, Kate EMPR:EX < Kate.Duncan@gov.bc.ca > wrote:

Hi Minister,

The attached came through from the DMO. It is my understanding you have verbally granted the extension but they need an email from you acknowledging your approval of the extension.

Thanks

Kate Duncan

Administrative Coordinator to the Honourable Michelle Mungall Minister of Energy Mines and Petroleum Resources

T: 778-974-5975

E: kate.duncan@gov.bc.ca

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From: Cochrane, Marlene EMPR:EX Sent: December 20, 2018 4:05 PM

To: Duncan, Kate EMPR:EX <Kate.Duncan@gov.bc.ca>; Pommelet, Lisa EMPR:EX

<<u>Lisa.Pommelet@gov.bc.ca</u>>

Cc: Nikolejsin, Dave EMPR:EX < <u>Dave.Nikolejsin@gov.bc.ca</u>> **Subject:** Letter to MMM re: Hydraulic Fracturing Review Panel

Please find attached a letter for the Minister's information. (no signature required, but an email acknowledgement of the extension is needed.) Garth brought this up at Roundtable on Monday to say it was coming. Thank you.

Marlene Cochrane

Executive Coordinator | Deputy Minister's Office Ministry of Energy, Mines and Petroleum Resources Victoria | British Columbia Phone (778) 698 7254 **From:** Thoroughgood, Garth A EMPR:EX **Sent:** Thursday, December 20, 2018 3:02 PM

To: Cochrane, Marlene EMPR:EX

Subject: Letter to MMM re: Hydraulic Fracturing Review Panel

Marlene,

As previously discussed please find attached the letter to MMM with regards to an extension to the Terms of Reference date for the submission of the report from the Scientific Hydraulic Fracturing Review Panel. I have also included a copy of the Terms of Reference for information only.

The letter has been written by Michelle Schwabe who provides panel secretariat duties for the Scientific Hydraulic Fracturing Review Panel members.

Although nothing here requires a signature from MMM perhaps we can request a memo or email back from the MO providing an understanding that more time is required.

Garth Thoroughgood
Acting Assistant Deputy Minister
Oil and Gas Division
Ministry of Energy, Mines and Petroleum Resources
(778)698-3665

<105795 Schwabe to Mungall Scientific Hydraulic Fracturing Review Panel Extension Request (V.2).pdf>

From: Mungall, Michelle EMPR:EX

Sent: December 20, 2018 10:19 AM

To: Andrews, Scott EMPR:EX

Subject: Re: FOR APPROVAL - Response to Gavin Dirom, Geoscience BC

Small edit below

Sent from my iPhone

On Dec 19, 2018, at 10:00 AM, Andrews, Scott EMPR:EX <Scott.Andrews@gov.bc.ca> wrote:

Hi Minister,

Below is a response to Gavin Dirom with Geoscience BC for your approval:

Dear Mr. Dirom:

Thank you for your November 20, 2018 email and Geoscience BC's funding request submission package, requesting funding for the continuation of Geoscience BC's activities in the mineral and oil and gas sectors. I have directed staff to take the necessary time to review this comprehensive package in detail.

In addition, the mandate of the BC Mining Jobs Task Force includes providing a recommendation on a coordinated provincial approach to geoscience. This recommendation will contribute to the Government's understanding of the state of, and path forward for, public geoscience. A decision on how best to support public geoscience will be made after thoughtful consideration of the Task Force report and other relevant submissions.

I wish you success in advancing your projects, and I encourage you to contact Ministry of Energy, Mines and Petroleum Resources staff for any further assistance you may require.

Sincerely,

Michelle Mungall Minister

Scott Andrews | Ministerial Assistant to the Honourable Minister Mungall Ministry of Energy, Mines and Petroleum Resources PO Box 9060, Station Prov Gov, Victoria, BC, V8W 9E2 | Cell: 250-896-4532

From: Mungall, Michelle EMPR:EX
Sent: December 15, 2018 8:49 AM

To: Sanderson, Melissa EMPR:EX; Andrews, Scott EMPR:EX; Duncan, Kate EMPR:EX

Subject: Re: Upcoming TB Items

I'm not available as of Dec 21. Most of these items I am familiar with or briefings are already scheduled, so signing items before Dec 21 isn't an issue. I can also make the Jan 15 signing dates as well.

Re: s.12,s, I will speak to Peter Robb about this on Monday.

s.13

Thanks

Sent from my iPhone

On Dec 14, 2018, at 3:21 PM, Sanderson, Melissa EMPR:EX < Melissa. Sanderson@gov.bc.ca > wrote:

Sent from my iPhone

Begin forwarded message:

From: "Nikolejsin, Dave EMPR:EX" < Dave.Nikolejsin@gov.bc.ca>

Date: December 13, 2018 at 9:51:44 PM PST

To: "Sanderson, Melissa EMPR:EX" < Melissa.Sanderson@gov.bc.ca>

Subject: Upcoming TB Items

Melissa, \$.22 and she has indicated she does not want to be signing things during that time. Unfortunately the wheels of government keep turning. Please see below and let me know how you/Minister want to handle all of these approvals. The options are that she can continue to get briefings \$.22 or she can delegate her signing authority to me or another Minister (the latter would be unusual). Or she can indicate specific ones from the list below where she wants to retain signing authority. I've included ones that are just after she returns as well so we don't end up jamming her on first couple days back (unless that what she wants).

s.12,s.13

For mid-January meeting, signed submissions are due to TBS January 3. For end January meetings, signed submissions are due January 15. There are no meetings of TB (major or minor) in February.

If Minister wants to make the time $^{\rm s.22}$ we can arrange briefings on any or all of these items for her before then. Just let us know and I will ensure the right folks are available.

As always, timing on the above items subject to change based on the whims of cabops
or Ministry of Finance.

Thanks.

From: Mungall, Michelle EMPR:EX
Sent: December 14, 2018 9:01 PM
To: Duncan, Kate EMPR:EX
Subject: Re: Minister Mungall \$.22

s.22

Sent from my iPhone

On Dec 14, 2018, at 3:55 PM, Duncan, Kate EMPR:EX < Kate.Duncan@gov.bc.ca > wrote:

Please see below and let me know

Thanks

Kate Duncan

Administrative Coordinator to the Honourable Michelle Mungall Minister of Energy Mines and Petroleum Resources

T: 250-387-2201

E: kate.duncan@gov.bc.ca

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From: Poldrugovac, Saija FIN:EX Sent: December 14, 2018 3:34 PM

To: Duncan, Kate EMPR:EX < Kate. Duncan@gov.bc.ca>

Subject: RE: Minister Mungall \$.22

Thanks Kate!

s.22 Can you check with the Minister to see if it was supposed to be s.22 If there is no lease term, we have to have rent receipts prior to issuing the CCLA payment each month.

From: Duncan, Kate EMPR:EX
Sent: December 14, 2018 3:13 PM
To: Poldrugovac, Saija FIN:EX
Subject: Minister Mungall s.22

Hi Saija,

Attached is the scanned copy? Would you like the hardcopy sent through interoffice mail or is the scan sufficient/

Let me know

Thanks

Kate Duncan

Administrative Coordinator to the Honourable Michelle Mungall Minister of Energy Mines and Petroleum Resources

T: 250-387-2201

E: kate.duncan@gov.bc.ca

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From: Mungall, Michelle EMPR:EX
Sent: December 11, 2018 2:07 PM
To: Andrews, Scott EMPR:EX

Subject: Re: FOR APPROVAL - Revised Quote in John Hart news release

Good

Sent from my iPhone

On Dec 11, 2018, at 2:06 PM, Andrews, Scott EMPR:EX <Scott.Andrews@gov.bc.ca> wrote:

Hi Minister,

BC Hydro revised the quote in the John Hart news release. The change is highlighted in yellow below:

From: Grewar, Colin GCPE:EX Sent: December 11, 2018 1:04 PM

To: Andrews, Scott EMPR:EX < Scott.Andrews@gov.bc.ca >

Cc: Tally, Holly GCPE:EX < Holly.Tally@gov.bc.ca >; Sanderson, Melissa EMPR:EX < Melissa.Sanderson@gov.bc.ca >; Haslam, David GCPE:EX < David.Haslam@gov.bc.ca >

Subject: RE: FOR APPROVAL - Quote in John Hart news release

Hi Scott: There was a miscommunication on BC Hydro's end and they realized the Minister's quote in the John Hart NR included an incorrect fact. They apologise for that, and have updated the second sentence of the quote as highlighted below so that it's correct.

"Originally built in 1947, the John Hart Generating Station Replacement project was a necessary upgrade and expansion to ensure BC Hydro can continue to deliver clean, reliable power for decades to come," said Hon. Michelle Mungall, Minister of Energy, Mines and Petroleum Resources. "The new underground facility is built in rock and meets today's seismic safety guidelines, allowing the facility to better able to withstand an earthquake."

Any concerns?

Thanks, Colin

<image001.jpg>

Colin Grewar
Public Affairs Officer
Government Communications and Public Engagement
Ministry of Energy, Mines and Petroleum Resources
Phone: 250-952-0650

Colin.Grewar@gov.bc.ca

From: Andrews, Scott EMPR:EX

Sent: Monday, December 10, 2018 4:22 PM

To: Grewar, Colin GCPE:EX

Cc: Tally, Holly GCPE:EX; Sanderson, Melissa EMPR:EX

Subject: FW: FOR APPROVAL - Quote in John Hart news release

Hi Colin,

FYI the quote for the John Hart NR is approved by the Minister.

Regards,

Scott

From: Mungall, Michelle EMPR:EX Sent: December 10, 2018 4:21 PM

To: Andrews, Scott EMPR:EX < Scott.Andrews@gov.bc.ca > **Subject:** Re: FOR APPROVAL - Quote in John Hart news release

Great

Sent from my iPhone

On Dec 10, 2018, at 3:31 PM, Andrews, Scott EMPR:EX <Scott.Andrews@gov.bc.ca> wrote:

Hi Minister,

Below is a quote for your approval in an upcoming BC Hydro news release:

"Originally built in 1947, the John Hart Generating Station Replacement project was a necessary upgrade and expansion to ensure BC Hydro can continue to deliver clean, reliable power for decades to come," said Hon. Michelle Mungall, Minister of Energy, Mines and Petroleum Resources. "The new underground facility is built in rock and is able to withstand a one in 10,000 year earthquake."

Dec. 13, 2018

BC Hydro energizes new John Hart generating station facility

VANCOUVER: The \$1.093 billion John Hart Generating Station Replacement project is now in-service – on time and on budget – improving seismic safety and reliability, and better protecting the downstream Campbell River fish habitat.

"Originally built in 1947, the John Hart Generating Station Replacement project was a necessary upgrade and expansion to ensure BC Hydro can continue to deliver clean, reliable power for decades to come," said Hon. Michelle Mungall, Minister of Energy, Mines and Petroleum Resources. "The new underground facility is built in rock and is able to withstand a one in 10,000 year earthquake."

In partnership with contractor and designer InPower BC, construction work on the new facilities began in July 2014. The main project components include:

construction of a new underground generating station and water bypass facility;

- replacement of three 1.8 kilometre pipelines with a 2.1 kilometre tunnel; and.
- construction of a new water intake and treatment facility at the John Hart spillway dam.

Decommissioning work to remove the old facility will run until summer 2019.

"This is a significant milestone for the Campbell River and surrounding community," said Hon. Claire Trevena, MLA for North Vancouver Island. "The new facility will generate nearly 10 per cent more electricity than the old facility – now powering about 80,000 homes each year."

The project is also delivering a number of community benefits, including:

- the Elk Falls Suspension Bridge, which attracts about 200,000 visitors per year;
- funding for a new and more reliable City of Campbell River water withdrawal and treatment facility for 35,000 people; and,
- more greenspace once areas like the old pipeline corridor are returned to forest to better fit with the surrounding Elk Falls Provincial Park.

"The local economy has prospered from this project," said Andy Adams, Mayor of Campbell River. "At the peak of construction, 500 people were working on-site and more than 100 Vancouver Island companies provided goods and services for the project."

Additionally, the project is also delivering significant environmental benefits. The new water bypass facility within the powerhouse will ensure that if one or all three of the new generators shut down for any reason, downstream river flow can be maintained for fish and fish habitat.

"A large portion of BC Hydro's electric system and supporting infrastructure is reaching or has exceeded its expected end-of-life," said Chris O'Riley, President and Chief Operations Officer, BC Hydro. "The John Hart project is an example of one of the investments BC Hydro must make to ensure we meet the growing demand for electricity."

BC Hydro is spending more than \$2 billion annually over the next decade to upgrade its existing assets and build new infrastructure to continue to deliver clean, reliable power to British Columbians.

-30-

Scott Andrews | Ministerial Assistant to the Honourable Minister Mungall Ministry of Energy, Mines and Petroleum Resources PO Box 9060, Station Prov Gov, Victoria, BC, V8W 9E2 | Cell: 250-896-4532

From:

Mungall, Michelle EMPR:EX

Sent: To: December 11, 2018 9:51 AM Sanderson, Melissa EMPR:EX

Subject:

Re: s.16

Please add to next Staff meeting agenda

Sent from my iPhone

On Dec 10, 2018, at 10:20 PM, Sanderson, Melissa EMPR:EX < Melissa.Sanderson@gov.bc.ca > wrote:

I can ask the Ministry to follow up on this.

Sent from my iPhone

Begin forwarded message:

From: "Sanderson, Melissa EMPR:EX" < Melissa.Sanderson@gov.bc.ca >

Date: December 3, 2018 at 6:17:10 PM PST

To: "O'Riley, Christopher" < Cc: "MacLaren, Les EMPR:EX" < Les.MacLaren@gov.bc.ca>

Subject: Re: 5.16

Thank you Chris - I will share this with the Minister.

Sent from my iPhone

On Dec 3, 2018, at 4:52 PM, O'Riley, Christopher <Chris.Oriley@bchydro.com> wrote:

Could I please ask one of you to pass this along to the Minister. She called me last week ${\tt s.16}$

s.16

While the typical (median) bill s.16 we weren't able to confirm a large systematic difference compared to s.16

That said, there are individuals in the community with high bills. s.1 s.13

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by a collect call or return email to notify us of this error. Thank you for your cooperation.

s.16

From:Mungall, Michelle EMPR:EXSent:December 10, 2018 4:21 PMTo:Sanderson, Melissa EMPR:EX

Subject: Re: Draft Op-Ed

Good to go

Sent from my iPhone

On Dec 10, 2018, at 3:56 PM, Sanderson, Melissa EMPR:EX < Melissa. Sanderson@gov.bc.ca> wrote:

Minister - below is the draft op-ed that Rosa re-worked. s.13

CleanBC is our moment

By Michelle Mungall Minister of Energy, Mines and Petroleum Resources (Date)

(approx. 352 words)

I love B.C. and I want to protect what makes it so special – for now and for the future. As a new mother and as B.C.'s energy minister, I'm committed to addressing climate change and building a better and more prosperous future.

Every day brings a new reminder that climate change is a massive global problem, with impacts right here at home. The good news is that British Columbia is perfectly positioned to rise to the challenge. This is our moment – our chance to make life better today and pave the way for those that come after us.

CleanBC is about working together to build a cleaner, brighter future. As a resident of the Kootenays, which produces half of B.C.'s hydropower, I'm proud of the opportunities that come from our clean electricity. B.C.'s own hydro resources give us the ability to drive economic development and help to move us away from fossil fuels. CleanBC sends a signal to other provinces and jurisdictions that we can power our growing economy with clean, renewable energy and make life better and more affordable for people.

With every challenge comes opportunity. The world must evolve to address climate change, and British Columbia can be a leader in that transformation. CleanBC is designed to keep our economy strong and welcome new investment. As the B.C. Business Council has pointed out, CleanBC positions us as a great choice for international markets looking for low-carbon energy and commodities.

CleanBC puts us on the path to meet our climate goals while growing our economy. In B.C.,
we're mobilizing our skilled workers, natural resources, and booming tech sector to reduce climate
pollution and create good jobs and opportunities for people across the province. Together, we can build
our economy and power our future with clean, renewable energy.

Contact:

Sent from my iPhone

From: Mungall, Michelle EMPR:EX
Sent: December 10, 2018 8:22 AM

To: Sanderson, Melissa EMPR:EX; Andrews, Scott EMPR:EX; Duncan, Kate EMPR:EX;

Hammond, Danika S EMPR:EX

Subject: Staff meeting to 1:30?

Hi,

Can we move the staff meeting to 1:30? $^{\rm s.22}$

Thanks

Sent from my iPhone

From: Mungall, Michelle EMPR:EX

Sent: December 9, 2018 9:47 AM

To: Andrews, Scott EMPR:EX

Subject: Re: FOR APPROVAL - Statement on Transboundary Water Issues

Good to go

Sent from my iPhone

On Dec 7, 2018, at 11:46 AM, Andrews, Scott EMPR:EX < Scott.Andrews@gov.bc.ca > wrote:

Hi Minister,

Below is a statement for your approval:

Reporter: Jennifer Wilson, CBC Early Edition

Deadline: ASAP

Request: We have invited representatives from the Southeast Alaska Indigenous Transboundary Commission and Earthjustice to speak on our Northern BC morning show regarding their petition to the Inter-American Commission. I would also like to invite you to comment on the petition and in particular respond to to the following points.

Within the petition reference is made to a 2016 Auditor General report and a 2017 University of Victoria Environmental Law Centre report, both of which mention your ministry (page 18 and 19). The Auditor General report is quoted as referring to " a decade of neglect in compliance and enforcement activities within the Ministry of Energy and Mines."

Suggested Response:

GCPE to provide the following statement attributable to Minister Michelle Mungall:

"This government shares concern over environmental impacts from mining and the protection of our shared transboundary waterways. New mining endeavours are strictly regulated and adherence to environmental standards is customary practice from inception. Historical mines have higher standards to adhere to and must consistently achieve excellence in the area of compliance.

"The impacts of the current compliance regime are abundant; decreased risks to the environment, the potential for improvement of the province's water systems and wildlife habitat, and mitigating damage to culturally significant areas and values. This government has and will continue to work with the mining industry, First Nations and the State of Alaska to ensure, collaboratively, that we address concerns and protect our shared environment.

"B.C. and Alaska signed a Memorandum of Understanding that, among other provisions, calls for the collaboration of the agencies identified in the protection of the transboundary waters and the fisheries they support.

"Collectively, we are creating a process for the collection, summary and distribution of water quality data. This work builds on Alaska's participation in British Columbia's Environmental Assessments and

permitting process relating to mining. A working group is collaborating now on various transboundary projects and details will be available to the public via an interactive mapping platform."

Scott Andrews | Ministerial Assistant to the Honourable Minister Mungall Ministry of Energy, Mines and Petroleum Resources PO Box 9060, Station Prov Gov, Victoria, BC, V8W 9E2 | Cell: 250-896-4532

From: Mungall, Michelle EMPR:EX

Sent: December 6, 2018 1:16 PM

To: Andrews, Scott EMPR:EX

Subject: Re: FOR APPROVAL - D-Wave Quote in JTT News Release

Good

Sent from my iPhone

On Dec 6, 2018, at 1:03 PM, Andrews, Scott EMPR:EX < Scott.Andrews@gov.bc.ca > wrote:

Hi Minister,

Below is a quote for your approval in a JTT news release on D-Wave:

"We need to invest in the technology and jobs of the future," said Michelle Mungall, Minister of Energy, Mines and Petroleum Resources. "We're supporting innovation in quantum computers that will reduce overall energy use, and create sustainable economic opportunities for people in B.C."

Full release is below:

For Immediate Release [release number] Dec. 10, 2018 Ministry of Jobs, Trade and Technology

B.C. company advances next-generation computing

BURNABY – A new generation of energy efficient, made-in-B.C. quantum computers will use advanced technology to solve real-world problems.

The Province is supporting Burnaby-based D-Wave Systems to develop a next-generation quantum computer. This project could improve the way computers solve problems for people in areas such as health care, data protection and climate change. The technology can also help with every-day challenges like reducing traffic congestion and more accurately forecasting the weather.

"Solving the complex problems of tomorrow requires a new kind of computing innovation," said Bruce Ralston, Minister of Jobs, Trade and Technology. "Ground-breaking projects like this address the energy needs of future computers and contribute to the growing clean tech sector in B.C." (DRAFT)

Supercomputers process large amounts of information very quickly. However, they require significant amounts of electricity to operate. D-Wave's existing quantum systems dramatically reduce power consumption, using up to 100 times less, while still running faster than a similar supercomputer. The company's future generation quantum computers will more than double the current processing speed, while keeping energy-use the same.

"We need to invest in the technology and jobs of the future," said Michelle Mungall, Minister of Energy, Mines and Petroleum Resources. "We're supporting innovation in quantum computers that will reduce overall energy use, and create sustainable economic opportunities for people in B.C." (DRAFT)

B.C.'s \$2-million investment in D-Wave's project was provided through the Innovative Clean Energy (ICE) Fund, which supports energy efficient and clean initiatives. It adds to the \$10 million provided through Sustainable Development Technology Canada (SDTC) and \$44 million in private investment.

"D-Wave Systems is developing technology with the potential to help solve some of the world's most complex problems whether they be technical, scientific, or commercial," said Leah Lawrence, president and CEO of Sustainable Development Technology Canada. "We are proud our partnership with the B.C. ICE Fund creates a one-window approach for companies to access the funding they need to deliver economic and environmental prosperity for Canadians." (APPROVED)

D-Wave develops systems used by leading global organizations, including Lockheed Martin, Google, Volkswagen, and NASA.

"This investment will help accelerate our company's next-generation quantum system, developed right here in B.C.," said Vern Brownell, chief executive officer at D-Wave. "Our advanced technology is leading the sector and will significantly improve energy efficiency and help address climate change." (DRAFT)

This initiative aligns with CleanBC, our pathway to a more prosperous, balanced and sustainable future, and will get us closer to our climate goals.

Quick Facts:

- D-Wave expects that quantum technology will be applied to solve new problems, creating opportunities for new products and services that will further reduce energyuse and emissions.
- D-Wave computers have been used in more than 100 applications, including airline scheduling, quantum chemistry simulation, automotive design, and preventative health care.
- Volkswagen is using D-Wave's technology to find more efficient ways to forecast urban traffic volumes, transport demand and travel times. This can help public transit agencies, taxi companies and other transport service providers use their fleets more efficiently.
- DENSO Corporation a leading supplier of advanced automotive technology has improved the efficiency of its automated vehicles by 15% using existing D-Wave systems.
- SDTC and the B.C. ICE Fund launched a partnership in March 2017 to make it easier for companies like D-Wave to access the funding they need to develop new technologies that can transform traditional industries and deliver economic and environmental prosperity for Canadians.
- D-Wave currently employs more than 150 highly skilled workers at its Burnaby office.

Learn More:

To learn more about D-Wave Systems, visit <u>www.dwavesys.com</u>

To learn more about the Innovative Clean Energy Fund, visit www2.gov.bc.ca/gov/content/industry/electricity-alternative-energy/innovative-clean-energy-solutions/innovative-clean-energy-ice-fund

To learn more about Sustainable Development Technology Canada, visit www.sdtc.ca

To learn more about CleanBC, visit www.cleanbc.gov.bc.ca

Contact:

Media Relations Ministry of Jobs, Trade and Technology 778 698-2892

A backgrounder follows.

Scott Andrews | Ministerial Assistant to the Honourable Minister Mungall Ministry of Energy, Mines and Petroleum Resources PO Box 9060, Station Prov Gov, Victoria, BC, V8W 9E2 | Cell: 250-896-4532