

**From:** [Gustafson, Reka \[BCCDC\]](#)  
**To:** [Deena Hinshaw](#)  
**Cc:** [Henry, Bonnie HLTH:EX](#)  
**Subject:** Re: Kearl Lake outbreak  
**Date:** April 16, 2020 10:20:00 AM

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Thank you Deena. Will be in a town hall from 10:30-11:30, but free after that.

Thanks,

Reka

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**From:** Deena Hinshaw  
**Sent:** April 16, 2020 10:16 AM  
**To:** Gustafson, Reka [BCCDC]  
**Cc:** Henry, Bonnie [EXT]  
**Subject:** RE: Kearl Lake outbreak  
Yes – will call you shortly.

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of  
Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16                      Cell Phone: s.16

---

**From:** Gustafson, Reka [BCCDC]  
**Sent:** Thursday, April 16, 2020 11:16 AM  
**To:** Deena Hinshaw  
**Cc:** Henry, Bonnie [EXT]  
**Subject:** Kearl Lake outbreak

Dear Deena,

I have just spoken with the Chief MHO from Interior health about three cases of Covid-19 in her region related to the Kearl Lake outbreak in Northern Alberta. Can we connect briefly by phone s.17 , so I can pass on any relevant information to public health here in BC?

Many thanks,

Reka

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intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail.

**From:** [Deena Hinshaw](#)  
**To:** [janice.fitzgerald@gov.nl.ca](#); [hgmorrison@gov.pe.ca](#); [robert.strang@gov.ns.ca](#); [Jennifer.Russell@gnb.ca](#); ["cristin.muecke@gnb.ca"](#); [Yves Jalbert](#); [Arruda, Horacio \(Ext.\)](#); [Dr.David.Williams@ontario.ca](#); [barbara.yaffe@ontario.ca](#); [Roussin, Brent \(HSAL\)](#); [Shahab, Saqib HE0](#); [Werker, Denise HE0](#); [Henry, Bonnie HLTH:EX](#); [Gustafson, Reka \[BCCDC\]](#); [XT:Hanley, Brendan HLTH:IN](#); [Catherine Elliott](#); [Kami Kandola](#); [Andy Dellipizzi](#); [mpatterson@gov.nu.ca](#)  
**Cc:** [Tam, Dr Theresa \(PHAC/ASPC\)](#); [Njoo, Howard \(PHAC/ASPC\)](#); [CCMOH SECRETARIAT / CMHC \(PHAC/ASPC\)](#); [Marcia Johnson](#); [Jing Hu](#); [Brent Friesen](#); [Dean Blue](#); [Susan Nolt](#); [Celine OBrien](#); [Sherri Wilson](#)  
**Subject:** 02. Kearl Lake oil camp outbreak  
**Date:** April 19, 2020 5:11:47 AM

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Colleagues,

You likely have heard by now that we are experiencing a COVID outbreak in a work camp in northern Alberta, the Kearl Lake site. We were notified of this outbreak on Tuesday, and I apologize for not sending information to you sooner. We have been waiting for lists from the companies with workers at the site so we could notify provinces who had workers at the site in the past few weeks so follow up could take place, and we have not yet received those lists. Once we do, we will send information along.

In the meantime, I wanted to make sure that you were aware, and to let you know that there have been several cases identified in other provinces with links to this camp. I am sorry that I didn't notify you sooner, and also that we do not yet have the lists. I will do my best to have them to you soon.

Deena

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16                      Cell Phone: s.16

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**From:** [XT:HLTH Parker, Robert](#)  
**To:** [Brent Friesen](#)  
**Cc:** [XT:HLTH Galanis, Eleni](#); [CD Unit](#); [XT:Mema, Dr. Silvina HLTH:IN](#); [XT:Goodison, Karin HLTH:IN](#); [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [XT:HLTH Pollock, Sue](#); [Gerhard Benade](#); [Gustafson, Reka \[BCCDC\]](#); [Henry, Bonnie HLTH:EX](#); [Deena Hinshaw](#); [health.cd@gov.ab.ca](#)  
**Subject:** 03. Re: Fort McMurray COVID outbreak and associated BC cases  
**Date:** April 19, 2020 7:32:08 AM

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Hi all.

In some of the emails ( both Eleni's, and then the reply to all), my email is incorrectly listed as Rob.parker@.....

My correct email Robert.parker@interiorhealth.ca

Can each of responding to this email thread take the time, when replying, to delete the incorrect email address for me, and re-enter the correct one.

That will ensure our needed communications go through for all of us.

Many thanks .

Rob

Dr. Robert Parker  
Medical Health Officer  
Interior Health Authority  
Kelowna BC

Sent from my iPhone

On Apr 19, 2020, at 6:15 AM, Brent Friesen wrote:

**CAUTION!** This email originated from outside of Interior Health. Do not click links or open attachments unless you recognize the sender, their email address, and know the content is safe. If you suspect this is a phishing or fraudulent email please forward it to [spam@interiorhealth.ca](mailto:spam@interiorhealth.ca).

Hi Eleni

I have attached an email that I had sent you in follow up to our conversation with additional details around the CMOH Directive and guidelines that Industrial Work camps are required to follow and what is actually happening at IOL. I had made an error in your email address( Used .gov instead .ca ) so it bounced back but did not notice that. I will be resending it so others will have your correct address. Dr. Benade is the MOH in North Zone leading the outbreak response. His contact information is in the email but here it is again Dr. Gerhard Benade

[Gerhard.Benade@albertahealthservices.ca](mailto:Gerhard.Benade@albertahealthservices.ca)

His phone number is s.22

I have also spoken with Dr. Hinshaw this morning.  
Sorry about the mix up with the email address.  
Regards  
Brent Friesen  
s.16

---

**From:** Galanis, Eleni [BCCDC] [mailto:Eleni.Galanis@bccdc.ca]

**Sent:** Saturday, April 18, 2020 9:46 PM

**To:** cdunit@interiorhealth.ca [IHA] ; Mema, Dr. Silvina [IHA] ; Parker, Dr. Rob [IHA] ; Goodison, Karin [IHA] ; Golmohammadi, Dr. Kamran [IHA] ; Pollock, Dr. Sue [IHA]

**Cc:** Brent Friesen ; Gustafson, Reka [BCCDC] ; Henry, Bonnie [EXT]

**Subject:** Fort McMurray COVID outbreak and associated BC cases

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Hello all,

IHA informed BCCDC of 4 lab-confirmed COVID cases among workers of Imperial Oil at Fort McMurray who have returned to IHA as well as 4 epi-linked cases among their BC contacts. IHA asked BCCDC to find out from AB what the protocol has been for identifying and managing exposed workers and if it is possible for BC to obtain the list of exposed workers for local follow-up to avoid further local transmission.

I spoke to Dr. Brent Friesen from the office of the Chief at AHS this afternoon who spoke to the MOH in Northern Zone. The case and contact management among workers is being managed by the medical staff of Imperial Oil. The company is conducting the contact tracing and providing guidance to cases and contacts. AHS does not have the name of exposed workers. It is unknown what advice Imperial Oil is giving to cases and exposed workers who have left AB (i.e. it is unclear what numbers or contacts they were given and if they are conducting active monitoring). s.13

s.13

I will leave this to

Bonnie and Reka.

<!--[if !supportLists]-->• <!--[endif]--> Bonnie/Reka, please let us know if you are able to get resolution on this at the SAC tomorrow.

<!--[if !supportLists]-->• <!--[endif]--> In the interim, Brent can you please put me in contact with Northern Zone so I can see if further info from Imperial Oil can be obtained tomorrow?

Once this immediate issue is addressed, AHS is interested in obtaining further information from IHA on BC cases associated with this outbreak.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) 604-707-2517

---

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**From:** [XT:Golmohammadi, Dr. Kamran HLTH:IN](#)  
**To:** [Henry, Bonnie HLTH:EX](#); [XT:HLTH Galanis, Eleni](#)  
**Cc:** [Gustafson, Reka \[BCCDC\]](#); [CD Unit](#); [IH Medical Health Officers](#)  
**Subject:** 04. Update from Interior Health RE  
**Date:** April 19, 2020 11:56:51 AM

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Hi Bonnie and Eleni,

Please see the summary below.

- In the Excel file we received, there were 10 records; 8 records with identification and 2 without identification (at the request of those two workers for their name not to be disclosed)
- All 8 identified names on that list are known to us.
- There is one additional lab confirmed case we are aware of that isn't on this list. This is one of the previous epi-linked cases who has now tested positive. This individual could be one of the "unknown" cases.
- **For the Kearl Lake workers we have identified to date:**
  - o 6 lab confirmed IH residents, reported in IH and currently residing in IH
  - o 2 lab confirmed cases, **s.13; s.22**  
**s.13; s.22**
  - o 1 epi-linked IH resident, reported in IH and currently residing in IH
- **Additional individuals we have identified to date linked to this outbreak:**
  - o 3 epi-linked IH residents, all are family members of one of the above cases, reported in IH and currently residing in IH
  - o 1 lab confirmed IH residents, contact to one of the above cases, reported in IH and currently residing in IH

PS. Bonnie, Eleni and I are exploring approaches on ramping up coordination, as there is possibility that workers from other Health Authorities in BC exposed to this outbreak in Alberta. Furthermore, timely access to critical information might become an issue as this operator is outside of BC, and we might require support from Alberta MOHs.

Sincerely

Kamran

**I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional, and unceded territory of the Syilx Nation.**

**Kamran Golmohammadi MD MSc FRCPC**

Medical Health Officer | Interior Health

Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5

Phone: 250-469-7070 Ext: 12789

Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)

Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

---

**From:** Henry, Bonnie HLTH:EX [mailto:[Bonnie.Henry@gov.bc.ca](mailto:Bonnie.Henry@gov.bc.ca)]

**Sent:** Sunday, April 19, 2020 11:06 AM

**To:** Galanis, Eleni [PHSA]; CD Unit; Mema, Dr. Silvina; Goodison, Karin; Golmohammadi, Dr. Kamran; Pollock, Dr. Sue

**Cc:** Gustafson, Reka [BCCDC]

**Subject:** RE: Fort McMurray COVID outbreak and associated BC cases

Yes, please.

*Dr Bonnie Henry*

*Provincial Health Officer*

Office of the PHO  
Ministry of Health  
British Columbia

s.17; s.19

---

**From:** Galanis, Eleni [BCCDC] [mailto:Eleni.Galanis@bccdc.ca]

**Sent:** April 19, 2020 9:23 AM

**To:** cdunit@interiorhealth.ca [IHA]; XT:Mema, Dr. Silvina HLTH:IN; XT:Goodison, Karin HLTH:IN; XT:Golmohammadi, Dr. Kamran HLTH:IN; XT:HLTH Pollock, Sue

**Cc:** Gustafson, Reka [BCCDC]; Henry, Bonnie HLTH:EX

**Subject:** RE: Fort McMurray COVID outbreak and associated BC cases

Kamran, when you have reviewed this list, can you please let me know which of these workers are the 4 IHA cases? I will ask someone at BCCDC to track down addresses for the others to be able to inform other HAs.

Bonnie/Reka, you support BCCDC informing AB which of these BC residents are COVID cases?

Eleni

---

**From:** Brent Friesen [mailto:Brent.Friesen@albertahealthservices.ca]

**Sent:** Sunday, April 19, 2020 6:37 AM

**To:** Galanis, Eleni [BCCDC]; cdunit@interiorhealth.ca [IHA]; Mema, Dr. Silvina [IHA]; Parker, Dr. Rob [IHA]; Goodison, Karin [IHA]; Golmohammadi, Dr. Kamran [IHA]; Pollock, Dr. Sue [IHA]

**Cc:** Gustafson, Reka [BCCDC]; Henry, Bonnie [EXT]; Gerhard Benade; 'health.cd@gov.ab.ca';

'Marcia.Johnson@gov.ab.ca'; 'Jing.Hu@gov.ab.ca'; 'Deena Hinshaw'

**Subject:** [WARNING: MESSAGE ENCRYPTED]RE: Fort McMurray COVID outbreak and associated BC cases

\*-\*-\*-\*-\*-\*-\*-\*

A message attachment intended for you could not be scanned by the anti-virus system and could contain a virus. If you are not expecting this message, please delete it. If you require assistance, please contact your local AHS Service Desk.

\*-\*-\*-\*-\*-\*-\*-\*

-  
-

Hi Rob and Eleni

Here is a password protected list of individual with residence identified as BC or unknown.

Password will follow in a separate email.

You have Dr. Benade's contact information in my previous email.

Regards

Brent Friesen

On Call for Office of CMOH Alberta

s.16

---

**From:** Galanis, Eleni [BCCDC] [mailto:Eleni.Galanis@bccdc.ca]

**Sent:** Saturday, April 18, 2020 9:46 PM

**To:** cdunit@interiorhealth.ca [IHA] ; Mema, Dr. Silvina [IHA] ; Parker, Dr. Rob [IHA] ; Goodison, Karin [IHA] ; Golmohammadi, Dr. Kamran [IHA] ; Pollock, Dr. Sue [IHA]

**Cc:** Brent Friesen ; Gustafson, Reka [BCCDC] ; Henry, Bonnie [EXT]

**Subject:** Fort McMurray COVID outbreak and associated BC cases

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---

Hello all,

IHA informed BCCDC of 4 lab-confirmed COVID cases among workers of Imperial Oil at Fort McMurray who have returned to IHA as well as 4 epi-linked cases among their BC contacts. IHA asked BCCDC to find out from AB what the protocol has been for identifying and managing exposed workers and if it is possible for BC to obtain the list of exposed workers for local follow-up to avoid further local transmission.

I spoke to Dr. Brent Friesen from the office of the Chief at AHS this afternoon who spoke to the MOH in Northern Zone. The case and contact management among workers is being managed by the medical staff of Imperial Oil. The company is conducting the contact tracing and providing guidance to cases and contacts. AHS does not have the name of exposed workers. It is unknown what advice Imperial Oil is giving to cases and exposed workers who have left AB (i.e. it is unclear what numbers or contacts they were given and if they are conducting active monitoring). s.13

s.13

. I will leave this to Bonnie and Reka.

- Bonnie/Reka, please let us know if you are able to get resolution on this at the SAC tomorrow.
- In the interim, Brent can you please put me in contact with Northern Zone so I can see if further info from Imperial Oil can be obtained tomorrow?

Once this immediate issue is addressed, AHS is interested in obtaining further information from IHA on BC cases associated with this outbreak.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

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---

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**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** [Henry, Bonnie HLTH:EX](#)  
**Cc:** [Gustafson, Reka \[BCCDC\]](#); [Brent Friesen](#); [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [Rosemarie.Ramsingh@northernhealth.ca \[NHA\]](#)  
**Subject:** 05. RE: Kearl Lake outbreak affecting BC residents  
**Date:** April 19, 2020 4:09:19 PM

---

- I have onset dates for 2 BC cases: both April 11.
- From AB, we know
  - o BC lab-confirmed cases were resulted between Apr 11-16.
    - The NHA case was resulted Apr 18.
  - o BC cases were at the worksite between Mar 13 and current date (ie Apr 18) [for varying durations]

-----Original Message-----

From: Henry, Bonnie HLTH:EX [mailto:Bonnie.Henry@gov.bc.ca]  
Sent: Sunday, April 19, 2020 4:01 PM  
To: Galanis, Eleni [BCCDC]  
Cc: Gustafson, Reka [BCCDC]; Brent Friesen; Golmohammadi, Dr. Kamran [IHA]; Rosemarie.Ramsingh@northernhealth.ca [NHA]  
Subject: Re: Kearl Lake outbreak affecting BC residents

Thanks I did raise this today at our SAC call and Deena indicated they have had challenges getting the needed info and also in coordination around the outbreak. Several other provinces also have cases including Saskatchewan and NS, NB.

I have asked for a time frame when cases started so we can do a public release asking anyone who was there to contact public health. Deena will try to get dares but thus is something to discuss with Brent as well.

Perhaps we can discuss additional measures on our evening call Reka ?

Bonnie

Dr Bonnie Henry  
Provincial Health Officer  
Ministry of Health  
Bonnie.henry@gov.bc.ca

s.17; s.19

On Apr 19, 2020, at 3:40 PM, Galanis, Eleni [BCCDC] wrote:

Hello,

There are now 9 lab-confirmed cases of COVID-19 among BC residents who were exposed at the Kearl Lake Imperial Oil worksite; 8 from IHA and 1 from NHA. In addition, IHA has reported 1 epi-linked case in a symptomatic worker and 4 symptomatic HH contacts, 1 of which has tested positive, showing evidence of secondary spread.

I spoke to Kamran in IHA this morning. We remain concerned about the following:

- Possible cases or exposed workers residing in other BC HAs of which we are not aware
  - Unclear case and contact management protocol by Imperial Oil and risk of undetected transmission in BC
    - o IHA released a PSA yesterday reminding returning workers to self-isolate
    - o IHA wants to investigate and monitor every one of these returning workers
- AB provided us with a list of BC cases among workers yesterday. It included 8/9 of our cases; all 8

were from IHA. This list did not include the NHA case or exposed workers. I spoke to Brent from AB again this afternoon and asked for more info on the circumstances of the outbreak and a list of all BC residents who may have been exposed at Imperial Oil or any other related site. In addition, Brent and I agreed that an interprovincial outbreak mtg would be useful tomorrow to share info and coordinate decision-making. At Brent's request and under Bonnie's guidance, I provided AB with a list of BC cases associated with this outbreak which included the 8 cases AB was aware of and the 2 additional cases (1 lab-confirmed and 1 epi-linked) mentioned above.

Hopefully, you can also raise this at the national level to ensure all affected PTs are aware. Let me know if you need any further information.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) s.17

**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** [Skowronski, Danuta \[BCCDC\]](#); [XT:Naus, Monika HLTH:IN](#); [Singal, Mayank \[BCCDC\]](#); [XT:Taylor, Marsha HLTH:IN](#); [XT:HLTH David, Samara](#); [Treloar, Chelsea \[BCCDC\]](#)  
**Cc:** [Henry, Bonnie HLTH:EX](#); [Gustafson, Reka \[BCCDC\]](#)  
**Subject:** 06. RE: Kearl Lake outbreak affecting BC residents  
**Date:** April 19, 2020 4:10:01 PM

---

I encouraged AB to consider this. Apparently there is also 1 case in SK.

---

**From:** Skowronski, Danuta [BCCDC]  
**Sent:** Sunday, April 19, 2020 3:53 PM  
**To:** Galanis, Eleni [BCCDC]; Naus, Monika [BCCDC]; Singal, Mayank [BCCDC]; Taylor, Marsha [BCCDC]; David, Samara [BCCDC]; Treloar, Chelsea [BCCDC]  
**Subject:** Re: Kearl Lake outbreak affecting BC residents

Hi Eleni -

Has this been distributed through CNPHI as a way to alert other provinces? I know that was being done by some provinces earlier, previously, in relation to these sorts of clusters but I don't think that has been embraced yet here. Should it be for this?

Best wishes,

Danuta Skowronski MD, FRCPC

Epidemiology Lead

Influenza & Emerging Respiratory Pathogens

BC Centre for Disease Control

Ph: 604-707-2511

Fx: 604-707-2516

---

**From:** Galanis, Eleni [BCCDC]  
**Sent:** Sunday, April 19, 2020 3:41 PM  
**To:** Naus, Monika [BCCDC]; Singal, Mayank [BCCDC]; Skowronski, Danuta [BCCDC]; Taylor, Marsha [BCCDC]; David, Samara [BCCDC]; Treloar, Chelsea [BCCDC]  
**Subject:** FW: Kearl Lake outbreak affecting BC residents  
FYI

---

**From:** Galanis, Eleni [BCCDC]  
**Sent:** Sunday, April 19, 2020 3:41 PM  
**To:** Henry, Bonnie [EXT]; Gustafson, Reka [BCCDC]  
**Cc:** 'Brent Friesen'; Golmohammadi, Dr. Kamran [IHA]; Rosemarie.Ramsingh@northernhealth.ca [NHA]  
**Subject:** Kearl Lake outbreak affecting BC residents

Hello,

There are now 9 lab-confirmed cases of COVID-19 among BC residents who were exposed at the Kearl Lake Imperial Oil worksite; 8 from IHA and 1 from NHA. In addition, IHA has reported 1 epi-linked case in a symptomatic worker and 4 symptomatic HH contacts, 1 of which has tested positive, showing evidence of secondary spread.

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Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) 6 17

**From:** [XT:Golmohammadi, Dr. Kamran HLTH:IN](#)  
**To:** [Henry, Bonnie HLTH:EX](#)  
**Cc:** [XT:HLTH.Galanis, Eleni](#)  
**Subject:** 07. RE: Kearl Lake outbreak affecting BC residents  
**Date:** April 20, 2020 11:34:08 AM

---

Hi Bonnie,

Thank you very much Bonnie. That is great.

Sincerely  
Kamran

I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional, and unceded territory of the Syilx Nation.

Kamran Golmohammadi MD MSc FRCPC  
Medical Health Officer | Interior Health  
Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5  
Phone: 250-469-7070 Ext: 12789  
Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)  
Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

-----Original Message-----

From: Henry, Bonnie HLTH:EX [<mailto:Bonnie.Henry@gov.bc.ca>]  
Sent: Monday, April 20, 2020 11:30 AM  
To: Golmohammadi, Dr. Kamran  
Cc: Galanis, Eleni [PHSA]  
Subject: RE: Kearl Lake outbreak affecting BC residents

Thanks Kamran,

I agree, I was just thinking about when the outbreak started so we can say everyone who has been on the worksite from xx date should self isolate or if they have symptoms to contact us.  
b

Dr Bonnie Henry  
Provincial Health Officer  
Office of the PHO  
Ministry of Health  
4th floor, 1515 Blanshard St  
Mailing address: PO Box 9648, STN PROV GOVT  
Victoria, BC  
V8W 9P4  
[Bonnie.henry@gov.bc.ca](mailto:Bonnie.henry@gov.bc.ca)

Phone: s.17; s.19

I gratefully acknowledge that I live and work on the traditional unceded territory of the Lekwungen Peoples, specifically the Songhees and Esquimalt First Nations. Hay'sxw'qu Si'em

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else is strictly prohibited. If you have received this in error, please telephone or e-mail the sender immediately and delete the message.

-----Original Message-----

From: Golmohammadi, Dr. Kamran <Kamran.Golmohammadi@interiorhealth.ca>

Sent: April 20, 2020 11:17 AM

To: Henry, Bonnie HLTH:EX <Bonnie.Henry@gov.bc.ca>

Subject: RE: Kearl Lake outbreak affecting BC residents

Hi Bonnie,

s.13

Sincerely  
Kamran

I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional, and unceded territory of the Syilx Nation.

Kamran Golmohammadi MD MSc FRCPC

Medical Health Officer | Interior Health Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5

Phone: 250-469-7070 Ext: 12789

Email: Kamran.Golmohammadi@interiorhealth.ca

Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

-----Original Message-----

From: Henry, Bonnie HLTH:EX [<mailto:Bonnie.Henry@gov.bc.ca>]

Sent: Monday, April 20, 2020 10:57 AM

To: Brent Friesen; Galanis, Eleni [PHSA]; 'Deena Hinshaw'

Cc: Gustafson, Reka [BCCDC]; Golmohammadi, Dr. Kamran; Rosemarie.Ramsingh@northernhealth.ca [NHA]

Subject: RE: Kearl Lake outbreak affecting BC residents

Thanks Brent and Deena,

I am planning on putting out information on this outbreak this afternoon as we need to publicly advise people who may be in many places in BC to self isolate and connect with us asap given the timing of this outbreak and the fact people will be in the middle to end of the incubation period now. Could you please let me know what the first date of onset was so we can give a bit of a time frame.

Thanks,  
Bonnie

Dr Bonnie Henry

Provincial Health Officer

Office of the PHO

Ministry of Health

4th floor, 1515 Blanshard St

Mailing address: PO Box 9648, STN PROV GOVT Victoria, BC V8W 9P4 [Bonnie.henry@gov.bc.ca](mailto:Bonnie.henry@gov.bc.ca)

Phone: s.17; s.19

I gratefully acknowledge that I live and work on the traditional unceded territory of the Lekwungen Peoples, specifically the Songhees and Esquimalt First Nations. Hay'sxw'qu Si'em

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-----Original Message-----

From: Brent Friesen <Brent.Friesen@albertahealthservices.ca>

Sent: April 19, 2020 8:00 PM

To: Henry, Bonnie HLTH:EX <Bonnie.Henry@gov.bc.ca>; XT:HLTH Galanis, Eleni <eleni.galanis@bccdc.ca>; 'Deena Hinshaw' <Deena.Hinshaw@gov.ab.ca>

Cc: Gustafson, Reka [BCCDC] <reka.gustafson@phsa.ca>; XT:Golmohammadi, Dr. Kamran HLTH:IN <Kamran.golmohammadi@interiorhealth.ca>; Rosemarie.Ramsingh@northernhealth.ca [NHA] <Rosemarie.Ramsingh@northernhealth.ca>

Subject: RE: Kearn Lake outbreak affecting BC residents

Hi Bonnie and Eleni

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Deena has asked PHAC today to provide input on a process for coordination nationally.

Regards

Brent Friesen

On Call for OCMOH

s.16

-----Original Message-----

From: Henry, Bonnie HLTH:EX [<mailto:Bonnie.Henry@gov.bc.ca>]

Sent: Sunday, April 19, 2020 5:01 PM

To: XT:HLTH Galanis, Eleni <eleni.galanis@bccdc.ca>

Cc: Gustafson, Reka [BCCDC] <reka.gustafson@phsa.ca>; Brent Friesen

<Brent.Friesen@albertahealthservices.ca>; XT:Golmohammadi, Dr. Kamran HLTH:IN

<Kamran.golmohammadi@interiorhealth.ca>; Rosemarie.Ramsingh@northernhealth.ca [NHA]

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Perhaps we can discuss additional measures on our evening call Reka ?

Bonnie

Dr Bonnie Henry

Provincial Health Officer

Ministry of Health

Bonnie.henry@gov.bc.ca

s.17; s.19

On Apr 19, 2020, at 3:40 PM, Galanis, Eleni [BCCDC] <Eleni.Galanis@bccdc.ca> wrote:

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Hopefully, you can also raise this at the national level to ensure all affected PTs are aware. Let me know if you need any further information.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

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**From:** [Deena Hinshaw](#)  
**To:** [XT:HLTH Galanis, Eleni](#); [Henry, Bonnie HLTH:EX](#)  
**Cc:** [Gustafson, Reka \[BCCDC\]](#); [Brent Friesen](#)  
**Subject:** 08. RE: Kearl Lake outbreak affecting BC residents  
**Date:** April 20, 2020 11:36:14 AM

---

We are working on a date range for a CNPHI posting and will send that when available.

Deena

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16, Cell Phone: s.16

-----Original Message-----

From: Galanis, Eleni [BCCDC] <[Eleni.Galanis@bccdc.ca](mailto:Eleni.Galanis@bccdc.ca)>  
Sent: Monday, April 20, 2020 12:24 PM  
To: Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>  
Cc: Gustafson, Reka [BCCDC] <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; Brent Friesen <[Brent.Friesen@albertahealthservices.ca](mailto:Brent.Friesen@albertahealthservices.ca)>; Deena Hinshaw <[Deena.Hinshaw@gov.ab.ca](mailto:Deena.Hinshaw@gov.ab.ca)>  
Subject: RE: Kearl Lake outbreak affecting BC residents

Hi Bonnie,  
Our epis tell us that the earliest onset date for BC cases is Mar 12 (one of the IHA cases).  
Eleni

-----Original Message-----

From: Henry, Bonnie HLTH:EX [<mailto:Bonnie.Henry@gov.bc.ca>]  
Sent: Monday, April 20, 2020 10:57 AM  
To: Brent Friesen; Galanis, Eleni [BCCDC]; 'Deena Hinshaw'  
Cc: Gustafson, Reka [BCCDC]; Golmohammadi, Dr. Kamran [IHA]; Rosemarie.Ramsingh@northernhealth.ca [NHA]  
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Eleni Galanis, MD, MPH, FRCPC  
Physician Epidemiologist, BCCDC EOC Director BC Centre for Disease Control 655 W12th Ave. Vancouver BC  
V5Z 4R4  
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**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** [Henry, Bonnie HLTH:EX](#)  
**Cc:** [Hoang, Linda \[BCCDC\]](#); [XT:Krajden, Mel HLTH:IN](#); [Levett, Paul \[BCCDC\]](#); [Morshed, Muhammad \[BCCDC\]](#); [Prystajec, Natalie \[BCCDC\]](#); [Sekiroy, Inna \[BCCDC\]](#); [Corneil, Trevor HLTH:EX](#); [XT:Naus, Monika HLTH:IN](#); [XT:Taylor, Marsha HLTH:IN](#); [XT:HLTH David, Samara; Ahmed, May \[BCCDC\]](#); [XT:Kim, Jong HLTH:IN](#); [Bharmal, Aamir Dr. HLTH:IN](#); [XT:HLTH Dawar, Meena; XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [XT:Harding, John HLTH:IN](#); [XT:Hayden, Althea HLTH:IN](#); [XT:Hoyano, Dr Dee HLTH:IN](#); [Skowronski, Danuta \[BCCDC\]](#); [XT:Kling, Rakel HLTH:IN](#); [XT:Mema, Dr. Silvina HLTH:IN](#); [XT:Padhi, Dr. Shovita HLTH:IN](#); [Tyler, Ingrid Dr. HLTH:IN](#); [HLTH HECC Data HLTH:EX](#); [Treloar, Chelsea \[BCCDC\]](#); [XT:HLTH Brown, Libby; Amos, Heather \[BCCDC\]](#); [Noftall, Kyle \[BCCDC\]](#); [XT:Patrick, David HLTH:IN](#); [Gustafson, Reka \[BCCDC\]](#); [XT:Flatt, Alexandra HLTH:IN](#); [Smolina, Kate \[BCCDC\]](#); [Crabtree, Alexis \[BCCDC\]](#); [Janjua, Naveed \[BCCDC\]](#); [XT:HLTH Pederson, Ann; Mathany, Lauren \[BCCDC\]](#); [XT:HLTH Gilbert, Mark; Singal, Mayank \[BCCDC\]](#); [XT:HLTH Chhokar, Rahul; CD Epi; MacDougall, Laura; XT:ODonnell, Maureen HLTH:IN](#); [XT:Henderson, Sarah ENV:IN](#); [Coss, Michael \[BCCDC\]](#)  
**Subject:** 09. Apr 20 COVID Update - HA case and outbreak tallies  
**Date:** April 20, 2020 12:08:39 PM

Please find the daily case and outbreak tally provided by the HAs. Please note that in discussion with HECC and Bonnie, we have revised the data format for these morning tallies to provide clearer aggregate data required to prepare for the daily media briefing. If anyone needs information that is no longer included, please let me know. If anything is unclear, also please let me know. In addition, we have changed the name of the “recovered” variable to “discontinued isolation” and clarified the definition in the footnote. The actual measurement of the variable has not changed.

**\*\*This data is confidential and embargoed until 4pm.\*\***

**Table 1. Daily HA update-April 20 10 AM**

	Health Authority					Total N (%)
	FHA	IHA	VIHA	NHA	VCH	
<b>Total number of cases</b>	<b>705</b>	<b>153</b>	<b>102</b>	<b>39</b>	<b>700</b>	<b>1699</b>
Number of new cases since yesterday	14	2	1	0	6	23
Ever Hospitalized <sup>a</sup>	190	27	22	9	132	380 (22%)
Currently in Hospital	52	11	6	3	32	104
Deaths <sup>a</sup>	24	1	3	0	58	86 (5%)
New deaths since yesterday	2	0	0	0	0	2
Number known to be pregnant	6	3	1	2	7	19
Discontinued isolation <sup>b</sup>	372	95	71	30	471 <sup>c</sup>	1039 (61%)

- Serious outcome (e.g. hospitalization, death) tallies may be incomplete or out of date (i.e. under-estimates) owing to the timing and processes for case status update.
- Self-isolation has been discontinued per the criteria outlined in the BC guidelines for public health management of COVID-19: (1) resolution of fever without use of fever-reducing medications; AND (2) improvement of symptoms (respiratory, gastrointestinal and systemic); AND (3) either two negative nasopharyngeal swabs collected at least 24 hours apart, or at least 10 days have passed since onset of symptoms. These are the same criteria that had been used in previous reports for “recovered” cases.
- In reports prior to April 8, the VCH numbers of recovered was determined by an algorithm that counted all cases who had passed 10 days since their onset. Now VCH is counting those that meet the provincial definition above. The decrease in number recovered in VCH can be explained by those who have passed 10 days since their onset, but whose symptoms may not have improved.

## Outbreaks

There have been two new outbreaks reported today.

- Chartwell Willow LTCF in FHA with 1 resident, 0 deaths
- Kearl Lake Work Camp in AB with 6 IHA cases and 1 NHA case, 0 deaths
- No additional outbreaks were declared over since yesterday.
- There are currently 25 active outbreaks. There have been 31 total outbreaks reported since January 1, 2020.

**Table 2. Outbreaks summary-April 20 10 AM**

	Care facility outbreaks	Other outbreaks	Total
Outbreaks			
New outbreaks since yesterday	1	1	2
Active outbreaks	21	4	25
Outbreaks declared over	6	0	6 (1 FHA, 5 VCH)
Total outbreaks since Jan 1	27	4	31
HA reporting outbreaks since Jan 1	13 VCH, 13 FHA, 1 IHA	2 IHA, 1 FHA, 1 provincial	13 VCH, 14 FHA, 3 IHA, 1 provincial
Outbreak cases			
<b>New cases since yesterday</b>	<b>8</b>	<b>8</b>	<b>16</b>
Staff/other	2	8	10
Residents/patients	6	0	6
<b>New deaths since yesterday</b>	<b>2</b>	<b>0</b>	<b>2</b>
Staff/other	0	0	0
Residents/patients	2	0	2
<b>Total cases</b>	<b>307</b>	<b>103</b>	<b>410</b>
Staff/other	115	42	157
Residents/patients	192	61	253
<b>Total deaths</b>	<b>55</b>	<b>1</b>	<b>56</b>
Staff	0	0	0
Residents	55	1	56

NOTE: Numbers may be incomplete or inaccurate owing to reporting delays and missing data.

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) 604-999-7076

**From:** [Henry, Bonnie HLTH:EX](#)  
**To:** [Yeung, Lucinda HLTH:EX](#); ["Nicola Lambrechts"](#); [Prevost, Jean-Marc GCPE:EX](#); [van Baarsen, Amanda HLTH:EX](#)  
**Subject:** 10. RE: Apr 20 COVID Update - HA case and outbreak tallies  
**Date:** April 20, 2020 1:10:00 PM

---

These are cases that were identified last week in IH and NH.

B

*Dr Bonnie Henry*  
*Provincial Health Officer*  
*Office of the PHO*  
*Ministry of Health*  
*4<sup>th</sup> floor, 1515 Blanshard St*  
*Mailing address: PO Box 9648, STN PROV GOVT*  
*Victoria, BC*  
*V8W 9P4*  
[Bonnie.henry@gov.bc.ca](mailto:Bonnie.henry@gov.bc.ca)  
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---

**From:** Yeung, Lucinda HLTH:EX  
**Sent:** April 20, 2020 1:01 PM  
**To:** Henry, Bonnie HLTH:EX ; 'Nicola Lambrechts' ; Prevost, Jean-Marc GCPE:EX ; van Baarsen, Amanda HLTH:EX

**Subject:** RE: Apr 20 COVID Update - HA case and outbreak tallies

Hi Bonnie,

It notes that there's 6 IHA cases and 1 NHA case associated with Karl Lake – but it is not reflected in the numbers from Apr 19 and Apr 20.

Can you advise?

With warmth and appreciation,

Lucinda

---

**From:** Henry, Bonnie HLTH:EX <[Bonnie.Henry@gov.bc.ca](mailto:Bonnie.Henry@gov.bc.ca)>  
**Sent:** April 20, 2020 12:10 PM  
**To:** 'Nicola Lambrechts' <[nicola@nlkstrategies.ca](mailto:nicola@nlkstrategies.ca)>; Prevost, Jean-Marc GCPE:EX <[Jean-Marc.Prevost@gov.bc.ca](mailto:Jean-Marc.Prevost@gov.bc.ca)>; van Baarsen, Amanda HLTH:EX <[Amanda.vanBaarsen@gov.bc.ca](mailto:Amanda.vanBaarsen@gov.bc.ca)>  
**Subject:** FW: Apr 20 COVID Update - HA case and outbreak tallies

*Dr Bonnie Henry*  
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**From:** Galanis, Eleni [BCCDC] <[Eleni.Galanis@bccdc.ca](mailto:Eleni.Galanis@bccdc.ca)>

**Sent:** April 20, 2020 12:09 PM

**To:** Henry, Bonnie HLTH:EX <[Bonnie.Henry@gov.bc.ca](mailto:Bonnie.Henry@gov.bc.ca)>

**Cc:** Hoang, Linda [BCCDC] <[Linda.Hoang@bccdc.ca](mailto:Linda.Hoang@bccdc.ca)>; XT:Krajden, Mel HLTH:IN <[mel.krajden@bccdc.ca](mailto:mel.krajden@bccdc.ca)>; Levett, Paul [BCCDC] <[Paul.Levett@bccdc.ca](mailto:Paul.Levett@bccdc.ca)>; Morshed, Muhammad [BCCDC] <[Muhammad.Morshed@bccdc.ca](mailto:Muhammad.Morshed@bccdc.ca)>; Prystajec, Natalie [BCCDC] <[Natalie.Prystajec@bccdc.ca](mailto:Natalie.Prystajec@bccdc.ca)>; Sekirov, Inna [BCCDC] <[inna.sekirov@bccdc.ca](mailto:inna.sekirov@bccdc.ca)>; Corneil, Trevor HLTH:EX <[Trevor.Corneil@gov.bc.ca](mailto:Trevor.Corneil@gov.bc.ca)>; XT:Naus, Monika HLTH:IN <[monika.naus@bccdc.ca](mailto:monika.naus@bccdc.ca)>; XT:Taylor, Marsha HLTH:IN <[marsha.taylor@bccdc.ca](mailto:marsha.taylor@bccdc.ca)>; XT:HLTH David, Samara <[samara.david@bccdc.ca](mailto:samara.david@bccdc.ca)>; Ahmed, May [BCCDC] <[may.ahmed@bccdc.ca](mailto:may.ahmed@bccdc.ca)>; XT:Kim, Jong HLTH:IN <[jong.kim@northernhealth.ca](mailto:jong.kim@northernhealth.ca)>; Bharmal, Aamir Dr. HLTH:IN <[Aamir.bharmal@fraserhealth.ca](mailto:Aamir.bharmal@fraserhealth.ca)>; XT:HLTH Dawar, Meena <[meena.dawar@vch.ca](mailto:meena.dawar@vch.ca)>; XT:Golmohammadi, Dr. Kamran HLTH:IN <[Kamran.golmohammadi@interiorhealth.ca](mailto:Kamran.golmohammadi@interiorhealth.ca)>; XT:Harding, John HLTH:IN <[John.Harding@vch.ca](mailto:John.Harding@vch.ca)>; XT:Hayden, Althea HLTH:IN <[althea.hayden@vch.ca](mailto:althea.hayden@vch.ca)>; XT:Hoyano, Dr Dee HLTH:IN <[dee.hoyano@viha.ca](mailto:dee.hoyano@viha.ca)>; Skowronski, Danuta [BCCDC] <[Danuta.Skowronski@bccdc.ca](mailto:Danuta.Skowronski@bccdc.ca)>; XT:Kling, Raket HLTH:IN <[raket.kling@northernhealth.ca](mailto:raket.kling@northernhealth.ca)>; XT:Mema, Dr. Silvina HLTH:IN <[Silvina.Mema@interiorhealth.ca](mailto:Silvina.Mema@interiorhealth.ca)>; XT:Padhi, Dr. Shovita HLTH:IN <[shovita.padhi@fraserhealth.ca](mailto:shovita.padhi@fraserhealth.ca)>; Tyler, Ingrid Dr. HLTH:IN <[ingrid.tyler@fraserhealth.ca](mailto:ingrid.tyler@fraserhealth.ca)>; HLTH HECC Data HLTH:EX <[HECC.Data@gov.bc.ca](mailto:HECC.Data@gov.bc.ca)>; Treloar, Chelsea [BCCDC] <[Chelsea.Treloar@bccdc.ca](mailto:Chelsea.Treloar@bccdc.ca)>; XT:HLTH Brown, Libby <[Libby.Brown@phsa.ca](mailto:Libby.Brown@phsa.ca)>; Amos, Heather [BCCDC] <[heather.amos@bccdc.ca](mailto:heather.amos@bccdc.ca)>; Nofall, Kyle [BCCDC] <[Kyle.Nofall@bccdc.ca](mailto:Kyle.Nofall@bccdc.ca)>; XT:Patrick, David HLTH:IN <[david.patrick@bccdc.ca](mailto:david.patrick@bccdc.ca)>; Gustafson, Reka [BCCDC] <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; XT:Flatt, Alexandra HLTH:IN <[aflatt@phsa.ca](mailto:aflatt@phsa.ca)>; Smolina, Kate [BCCDC] <[Kate.Smolina@bccdc.ca](mailto:Kate.Smolina@bccdc.ca)>; Crabtree, Alexis [BCCDC] <[Alexis.Crabtree@bccdc.ca](mailto:Alexis.Crabtree@bccdc.ca)>; Janjua, Naveed [BCCDC] <[Naveed.Janjua@bccdc.ca](mailto:Naveed.Janjua@bccdc.ca)>; XT:HLTH Pederson, Ann <[apederson@cw.bc.ca](mailto:apederson@cw.bc.ca)>; Mathany, Lauren [BCCDC] <[LMathany@bccdc.ca](mailto:LMathany@bccdc.ca)>; XT:HLTH Gilbert, Mark <[mark.gilbert@bccdc.ca](mailto:mark.gilbert@bccdc.ca)>; Singal, Mayank [BCCDC] <[mayank.singal@bccdc.ca](mailto:mayank.singal@bccdc.ca)>; XT:HLTH Chhokar, Rahul <[rahul.chhokar@fraserhealth.ca](mailto:rahul.chhokar@fraserhealth.ca)>; CD Epi <[CDEpi@fraserhealth.ca](mailto:CDEpi@fraserhealth.ca)>; MacDougall, Laura <[laura.macdougall@bccdc.ca](mailto:laura.macdougall@bccdc.ca)>; XT:ODonnell, Maureen HLTH:IN <[modonnell@phsa.ca](mailto:modonnell@phsa.ca)>; XT:Henderson, Sarah ENV:IN <[Sarah.Henderson@bccdc.ca](mailto:Sarah.Henderson@bccdc.ca)>; Coss, Michael [BCCDC] <[Michael.Coss@bccdc.ca](mailto:Michael.Coss@bccdc.ca)>

**Subject:** Apr 20 COVID Update - HA case and outbreak tallies

Please find the daily case and outbreak tally provided by the HAs. Please note that in discussion with HECC and Bonnie, we have revised the data format for these morning tallies to provide clearer aggregate data required to prepare for the daily media briefing. If anyone needs information that is no longer included, please let me know. If anything is unclear, also please let me know. In addition, we have changed the name of the "recovered" variable to "discontinued isolation" and clarified the definition in the footnote. The actual measurement of the variable has not changed.

**\*\*This data is confidential and embargoed until 4pm.\*\***

**Table 1. Daily HA update-April 20 10 AM**

	Health Authority					Total N (%)
	FHA	IHA	VIHA	NHA	VCH	
<b>Total number of cases</b>	<b>705</b>	<b>153</b>	<b>102</b>	<b>39</b>	<b>700</b>	<b>1699</b>
Number of new cases since yesterday	14	2	1	0	6	23
Ever Hospitalized <sup>a</sup>	190	27	22	9	132	380 (22%)

Currently in Hospital	52	11	6	3	32	104
Deaths <sup>a</sup>	24	1	3	0	58	86 (5%)
New deaths since yesterday	2	0	0	0	0	2
Number known to be pregnant	6	3	1	2	7	19
Discontinued isolation <sup>b</sup>	372	95	71	30	471 <sup>c</sup>	1039 (61%)

serious outcome (e.g. hospitalization, death) tallies may be incomplete or out of date (i.e. under-estimates) owing to the timing and processes for case status update.

Self-isolation has been discontinued per the criteria outlined in the BC guidelines for public health management of COVID-19: (1) resolution of fever without use of fever-reducing medications; AND (2) improvement of symptoms (respiratory, gastrointestinal and systemic); AND (3) either two negative nasopharyngeal swabs collected at least 24 hours apart, or at least 10 days have passed since onset of symptoms. These are the same criteria that had been used in previous reports for “recovered” cases.

In reports prior to April 8, the VCH numbers of recovered was determined by an algorithm that counted all cases who had passed 10 days since their onset. Now VCH is counting those that meet the provincial definition above. The decrease in number recovered in VCH can be explained by those who have passed 10 days since their onset, but whose symptoms may not have improved.

### Outbreaks

**There have been two new outbreaks reported today.**

**Heartwell Willow LTCF in FHA with 1 resident, 0 deaths**

**Earl Lake Work Camp in AB with 6 IHA cases and 1 NHA case, 0 deaths**

**No additional outbreaks were declared over since yesterday.**

**There are currently 25 active outbreaks. There have been 31 total outbreaks reported since January 1, 2020.**

**Table 2. Outbreaks summary-April 20 10 AM**

Care facility outbreaks		Other outbreaks		Total
Outbreaks				
New outbreaks since yesterday	1	1	2	
Active outbreaks	21	4	25	
Outbreaks declared over	6	0	6 (1 FHA, 5 VCH)	
Total outbreaks since Jan 1	27	4	31	
HA reporting outbreaks since Jan 1	13 VCH, 13 FHA, 1 IHA	2 IHA, 1 FHA, 1 provincial	13 VCH, 14 FHA, 3 IHA, 1 provincial	
Outbreak cases				
<b>New cases since yesterday</b>		<b>8</b>	<b>8</b>	<b>16</b>
Staff/other		2	8	10
Residents/patients		6	0	6
<b>New deaths since yesterday</b>		<b>2</b>	<b>0</b>	<b>2</b>
Staff/other		0	0	0
Residents/patients		2	0	2
<b>Total cases</b>		<b>307</b>	<b>103</b>	<b>410</b>
Staff/other		115	42	157
Residents/patients		192	61	253

<b>Total deaths</b>	<b>55</b>	<b>1</b>	<b>56</b>
Staff	0	0	0
Residents	55	1	56

NOTE: Numbers may be incomplete or inaccurate owing to reporting delays and missing data.

**Eleni Galanis, MD, MPH, FRCPC**

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c)  17

**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** [XT:Harding, John HLTH:IN](#); [Bharmal, Aamir Dr. HLTH:IN](#); [XT:Mema, Dr. Silvina HLTH:IN](#); [XT:Kling, Rakel HLTH:IN](#); [XT:Hoyano, Dr Dee HLTH:IN](#); [XT:Swinkels, Helena HLTH:IN](#)  
**Cc:** [Henry, Bonnie HLTH:EX](#); [Gustafson, Reka \[BCCDC\]](#); [Singal, Mayank \[BCCDC\]](#); [Treloar, Chelsea \[BCCDC\]](#)  
**Subject:** 11. AB Kearl Lake COVID 19 outbreak affecting BC residents  
**Date:** April 20, 2020 5:17:52 PM

---

Hello,

On the weekend, IHA alerted BCCDC to the fact that the AB Kearl Lake COVID-19 outbreak has caused at least 7 lab-confirmed cases among BC residents (6 in IHA and 1 in NHA) who worked at the Imperial Oil camp. Secondary transmission has occurred in BC. Please let us know through your epi reports if you identify any further cases with a link to this outbreak.

Thanks,

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) 6 17

**From:** [Deena Hinshaw](#)  
**To:** [XT:HLTH Galanis, Eleni](#); [Henry, Bonnie HLTH:EX](#)  
**Cc:** [Gustafson, Reka \[BCCDC\]](#); ["Brent Friesen"](#); [Marcia Johnson](#)  
**Subject:** 12. RE: Kearl Lake outbreak affecting BC residents  
**Date:** April 20, 2020 5:40:11 PM

---

Onset of our first known case was March 29, so this may have been a sentinel case.

Deena

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: ~~s.16~~; ~~s.19~~ Cell Phone: ~~s.16~~

-----Original Message-----

From: Galanis, Eleni [BCCDC] <Eleni.Galanis@bccdc.ca>  
Sent: Monday, April 20, 2020 5:58 PM  
To: Deena Hinshaw <Deena.Hinshaw@gov.ab.ca>; Henry, Bonnie [EXT] <bonnie.henry@gov.bc.ca>  
Cc: Gustafson, Reka [BCCDC] <reka.gustafson@phsa.ca>; 'Brent Friesen' <Brent.Friesen@albertahealthservices.ca>  
Subject: RE: Kearl Lake outbreak affecting BC residents

Hi all,

The case had onset of diarrhea on March 12 and resp sx on Mar 23. Based on a review of the case details and the knowledge that the AB outbreak started later (when?) IHA has agreed to recode the onset date as Mar 23.

Eleni

-----Original Message-----

From: Galanis, Eleni [BCCDC]  
Sent: Monday, April 20, 2020 1:50 PM  
To: 'Deena Hinshaw'; Henry, Bonnie [EXT]  
Cc: Gustafson, Reka [BCCDC]; Brent Friesen  
Subject: RE: Kearl Lake outbreak affecting BC residents

We checked and according to the IHA interview, Mar 12 is correct.

-----Original Message-----

From: Deena Hinshaw [<mailto:Deena.Hinshaw@gov.ab.ca>]  
Sent: Monday, April 20, 2020 12:48 PM  
To: Galanis, Eleni [BCCDC]; Henry, Bonnie [EXT]  
Cc: Gustafson, Reka [BCCDC]; Brent Friesen  
Subject: RE: Kearl Lake outbreak affecting BC residents

March 12? Not April 12?

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health Associate Clinical Professor, Department of Medicine, University of Alberta Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of Medicine,

University of Calgary 24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16; s.19 Cell Phone: s.16

-----Original Message-----

From: Galanis, Eleni [BCCDC] <Eleni.Galanis@bccdc.ca>  
Sent: Monday, April 20, 2020 12:24 PM  
To: Henry, Bonnie [EXT] <bonnie.henry@gov.bc.ca>  
Cc: Gustafson, Reka [BCCDC] <reka.gustafson@phsa.ca>; Brent Friesen  
<Brent.Friesen@albertahealthservices.ca>; Deena Hinshaw <Deena.Hinshaw@gov.ab.ca>  
Subject: RE: Kearl Lake outbreak affecting BC residents

Hi Bonnie,  
Our epis tell us that the earliest onset date for BC cases is Mar 12 (one of the IHA cases).  
Eleni

-----Original Message-----

From: Henry, Bonnie HLTH:EX [<mailto:Bonnie.Henry@gov.bc.ca>]  
Sent: Monday, April 20, 2020 10:57 AM  
To: Brent Friesen; Galanis, Eleni [BCCDC]; 'Deena Hinshaw'  
Cc: Gustafson, Reka [BCCDC]; Golmohammadi, Dr. Kamran [IHA]; Rosemarie.Ramsingh@northernhealth.ca  
[NHA]  
Subject: RE: Kearl Lake outbreak affecting BC residents

Thanks Brent and Deena,  
I am planning on putting out information on this outbreak this afternoon as we need to publicly advise people who may be in many places in BC to self isolate and connect with us asap given the timing of this outbreak and the fact people will be in the middle to end of the incubation period now. Could you please let me know what the first date of onset was so we can give a bit of a time frame.  
Thanks,  
Bonnie

Dr Bonnie Henry  
Provincial Health Officer  
Office of the PHO  
Ministry of Health  
4th floor, 1515 Blanshard St  
Mailing address: PO Box 9648, STN PROV GOVT Victoria, BC V8W 9P4 [Bonnie.henry@gov.bc.ca](mailto:Bonnie.henry@gov.bc.ca)  
Phone: s.17; s.19

I gratefully acknowledge that I live and work on the traditional unceded territory of the Lekwungen Peoples, specifically the Songhees and Esquimalt First Nations. Hay'sxw'qu Si'em

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-----Original Message-----

From: Brent Friesen <Brent.Friesen@albertahealthservices.ca>  
Sent: April 19, 2020 8:00 PM  
To: Henry, Bonnie HLTH:EX <Bonnie.Henry@gov.bc.ca>; XT:HLTH Galanis, Eleni <eleni.galanis@bccdc.ca>; 'Deena Hinshaw' <Deena.Hinshaw@gov.ab.ca>  
Cc: Gustafson, Reka [BCCDC] <reka.gustafson@phsa.ca>; XT:Golmohammadi, Dr. Kamran HLTH:IN <Kamran.golmohammadi@interiorhealth.ca>; Rosemarie.Ramsingh@northernhealth.ca [NHA] <Rosemarie.Ramsingh@northernhealth.ca>

Subject: RE: Kearn Lake outbreak affecting BC residents

Hi Bonnie and Eleni

I just wanted to reply that AHS is aware of the urgency of BC's request. Imperial Oil Limited has provided the names that had been withheld at the workers request and they understand that provision of the names and residence information is not optional for the exposed person or Imperial Oil to withhold.

It is unlikely we will have lists of all the employees and contractors at the Kearn Lake industrial site and the associated accommodation camp by their province of residence in the near future, however we hope to have a date range very soon.

Deena has asked PHAC today to provide input on a process for coordination nationally.

Regards

Brent Friesen

On Call for OCMOH

s.16

-----Original Message-----

From: Henry, Bonnie HLTH:EX [mailto:Bonnie.Henry@gov.bc.ca]

Sent: Sunday, April 19, 2020 5:01 PM

To: XT:HLTH Galanis, Eleni <eleni.galanis@bccdc.ca>

Cc: Gustafson, Reka [BCCDC] <reka.gustafson@phsa.ca>; Brent Friesen

<Brent.Friesen@albertahealthservices.ca>; XT:Golmohammadi, Dr. Kamran HLTH:IN

<Kamran.golmohammadi@interiorhealth.ca>; Rosemarie.Ramsingh@northernhealth.ca [NHA]

<Rosemarie.Ramsingh@northernhealth.ca>

Subject: Re: Kearn Lake outbreak affecting BC residents

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Thanks I did raise this today at our SAC call and Deena indicated they have had challenges getting the needed info and also in coordination around the outbreak. Several other provinces also have cases including Saskatchewan and NS, NB.

I have asked for a time frame when cases started so we can do a public release asking anyone who was there to contact public health. Deena will try to get dates but this is something to discuss with Brent as well.

Perhaps we can discuss additional measures on our evening call Reka ?

Bonnie

Dr Bonnie Henry

Provincial Health Officer

Ministry of Health

Bonnie.henry@gov.bc.ca

s.17; s.19

On Apr 19, 2020, at 3:40 PM, Galanis, Eleni [BCCDC] <Eleni.Galanis@bccdc.ca> wrote:

Hello,

There are now 9 lab-confirmed cases of COVID-19 among BC residents who were exposed at the Kearn Lake Imperial Oil worksite; 8 from IHA and 1 from NHA. In addition, IHA has reported 1 epi-linked case in a symptomatic worker and 4 symptomatic HH contacts, 1 of which has tested positive, showing evidence of secondary spread.

I spoke to Kamran in IHA this morning. We remain concerned about the following:

- Possible cases or exposed workers residing in other BC HAs of which we are not aware
- Unclear case and contact management protocol by Imperial Oil and risk of undetected transmission in BC

- o IHA released a PSA yesterday reminding returning workers to self-isolate
- o IHA wants to investigate and monitor every one of these returning workers

AB provided us with a list of BC cases among workers yesterday. It included 8/9 of our cases; all 8 were from IHA. This list did not include the NHA case or exposed workers. I spoke to Brent from AB again this afternoon and asked for more info on the circumstances of the outbreak and a list of all BC residents who may have been exposed at Imperial Oil or any other related site. In addition, Brent and I agreed that an interprovincial outbreak mtg would be useful tomorrow to share info and coordinate decision-making. At Brent's request and under Bonnie's guidance, I provided AB with a list of BC cases associated with this outbreak which included the 8 cases AB was aware of and the 2 additional cases (1 lab-confirmed and 1 epi-linked) mentioned above.

Hopefully, you can also raise this at the national level to ensure all affected PTs are aware. Let me know if you need any further information.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) s 17

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**From:** [Fitzgerald, Janice](#)  
**To:** [Henry, Bonnie HLTH:EX](#)  
**Subject:** 13. RE: Kearl Lake order  
**Date:** April 22, 2020 12:04:50 PM

---

Perfect, thanks Bonnie.  
Janice Fitzgerald MD MPH  
Chief Medical Officer of Health (Acting)  
Dept. of Health and Community Services  
s.16

(709) 729-4647 fax

---

**From:** Henry, Bonnie HLTH:EX  
**Sent:** Wednesday, April 22, 2020 4:16 PM  
**To:** Fitzgerald, Janice  
**Subject:** RE: Kearl Lake order

It was initially thought to be March 14<sup>th</sup> for onset but later revised. So at the time I made the order we had thought the 14<sup>th</sup>.

b

*Dr Bonnie Henry*  
*Provincial Health Officer*  
*Office of the PHO*  
*Ministry of Health*  
*4<sup>th</sup> floor, 1515 Blanshard St*  
*Mailing address: PO Box 9648, STN PROV GOVT*  
*Victoria, BC*  
*V8W 9P4*  
[Bonnie.henry@gov.bc.ca](mailto:Bonnie.henry@gov.bc.ca)  
Phone: s.17; s.19

*I gratefully acknowledge that I live and work on the traditional unceded territory of the Lekwungen Peoples, specifically the Songhees and Esquimalt First Nations. Hay'sxw'qu Si'em*

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**From:** Fitzgerald, Janice <[JaniceFitzgerald@gov.nl.ca](mailto:JaniceFitzgerald@gov.nl.ca)>  
**Sent:** April 22, 2020 11:30 AM  
**To:** Henry, Bonnie HLTH:EX <[Bonnie.Henry@gov.bc.ca](mailto:Bonnie.Henry@gov.bc.ca)>  
**Subject:** RE: Kearl Lake order

Thanks Bonnie. I noted the CNPHI alert cited dates March 29-April 16. Did you have cases from there prior to that time period?

Janice  
Janice Fitzgerald MD MPH  
Chief Medical Officer of Health (Acting)  
Dept. of Health and Community Services  
s.16

(709) 729-4647 fax

---

**From:** Henry, Bonnie HLTH:EX <[Bonnie.Henry@gov.bc.ca](mailto:Bonnie.Henry@gov.bc.ca)>

**Sent:** Wednesday, April 22, 2020 2:21 PM

**To:** Fitzgerald, Janice <[JaniceFitzgerald@gov.nl.ca](mailto:JaniceFitzgerald@gov.nl.ca)>

**Subject:** RE: Kearl Lake order

Because we have a public health emergency in place I can issue verbal orders to a class of people so that is what I did around this. I ordered anyone who returned to BC after working at the site in Kearl Lake for 14 March to present to self isolate for 14 days after their return and to contact public health. I also explained that for those who were already beyond 14 days from their return they should contact public health/811 if they have symptoms or if a close contact of theirs has symptoms compatible with COVID-19.

B

*Dr Bonnie Henry*

*Provincial Health Officer*

*Office of the PHO*

*Ministry of Health*

*4<sup>th</sup> floor, 1515 Blanshard St*

*Mailing address: PO Box 9648, STN PROV GOVT*

*Victoria, BC*

*V8W 9P4*

[Bonnie.henry@gov.bc.ca](mailto:Bonnie.henry@gov.bc.ca)

Phone: s.17; s.19

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---

**From:** Fitzgerald, Janice <[JaniceFitzgerald@gov.nl.ca](mailto:JaniceFitzgerald@gov.nl.ca)>

**Sent:** April 22, 2020 6:32 AM

**To:** Henry, Bonnie HLTH:EX <[Bonnie.Henry@gov.bc.ca](mailto:Bonnie.Henry@gov.bc.ca)>

**Subject:** Kearl Lake order

Good Morning Bonnie,

I'm reading in the media that you issued an order regarding Kearl Lake, but I can't find it on the website. Is this the case? We are looking to do something similar here to be able to follow-up with these workers. Appreciate any information you may be able to share.

Thanks very much,

Janice

Janice Fitzgerald MD MPH

Chief Medical Officer of Health (Acting)

Dept. of Health and Community Services

s.16

(709) 729-4647 fax

**From:** [XT:Golmohammadi, Dr. Kamran HLTH:IN](#)  
**To:** [XT:HLTH Galanis, Eleni](#); [Henry, Bonnie HLTH:EX](#)  
**Subject:** 14. IMPORTANT - Kears Lake workers returning from Alberta  
**Date:** April 22, 2020 1:29:53 PM  
**Importance:** High

---

Dear Eleni and Bonnie,

It looks like what we have been fearing most is happening. We have now evidence that suggests infected workers returning and spreading infection to others, ending up impacting our most vulnerable populations. Please see below.

Our communication team has already informed the public and our media messaging was further enhanced by Bonnie's messaging on Monday April 20, 2020.

s.13; s.22

Sincerely

Kamran

**I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional, and unceded territory of the Syilx Nation.**

**Kamran Golmohammadi MD MSc FRCPC**

Medical Health Officer | Interior Health

Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5

Phone: 250-469-7070 Ext: 12789

Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)

Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

---

**From:** Parker, Dr. Robert

**Sent:** Wednesday, April 22, 2020 12:38 PM

**To:** Mema, Dr. Silvina

**Cc:** Cameron, Danielle; CD Unit; Media

**Subject:** FW: FYI- Please note -s.22

s.22

**Importance:** High

\*\*\*\*Important heads up\*\*\*\*

s.22

Many thanks. I will communicate further information on this situation as the CDU gathers it.  
Rob

**From:** [XT:Mema, Dr. Silvina HLTH:IN](#)  
**To:** [Henry, Bonnie HLTH:EX](#)  
**Cc:** [XT:HLTH Pollock, Sue](#)  
**Subject:** 15. Second COVID-19 LTC outbreak in IH  
**Date:** April 22, 2020 3:34:44 PM

---

Hello Bonnie, this is to let you know that the MHO has declared an outbreak at an independent living/assisted living facility+LTC (two buildings attached) in Kelowna. s.22

s.22

i

↓

↓

Thanks,

Silvina

**Silvina Mema MD MSc FRCPC**

Medical Health Officer | Interior Health

505 Doyle Ave | Kelowna, British Columbia, V1Y 6V8

Cell 250 215-5779 | Fax 250 868-7826

Email: [Silvina.Mema@InteriorHealth.ca](mailto:Silvina.Mema@InteriorHealth.ca)

Executive Assistant:

Linda Stajduhar [Linda.Stajduhar@interiorhealth.ca](mailto:Linda.Stajduhar@interiorhealth.ca)

Phone: 250-469-7070 ext. 12791.

*This email is confidential, and is not for use by anyone other than the intended recipient.*

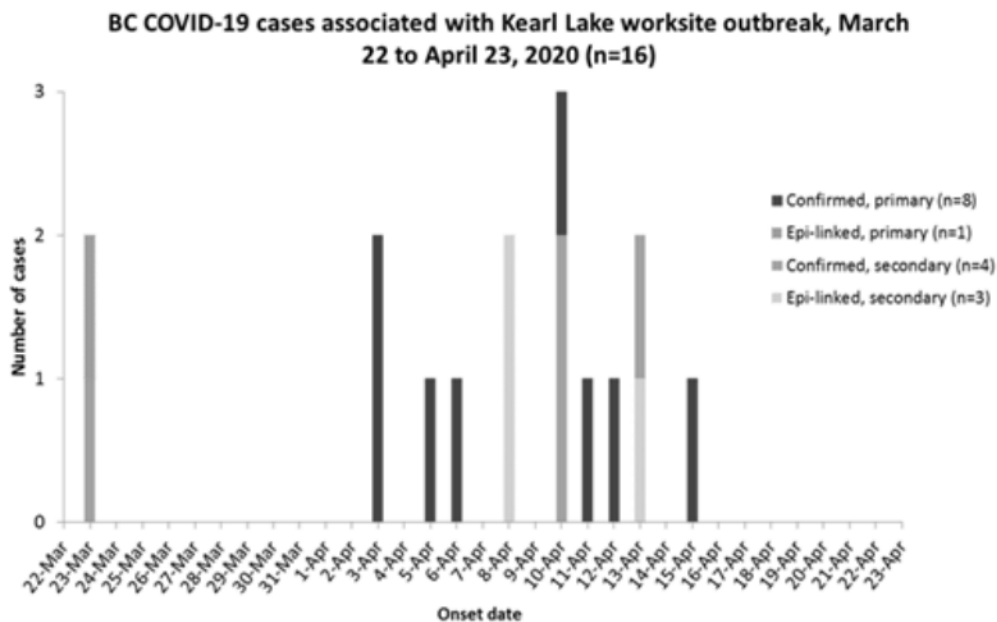
**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** "Deena Hinshaw"  
**Cc:** "Brent Friesen"; Henry, Bonnie HLTH:EX; "Marcia Johnson"; XT:Golmohammadi, Dr. Kamran HLTH:IN  
**Subject:** 16. RE: Kearl Lake outbreak affecting BC residents  
**Date:** April 23, 2020 1:20:26 PM  
**Attachments:** [image003.png](#)  
**Importance:** High

---

Hi again,

Here is the BC epicurve related to Kearl Lake exposure. We have confirmed 2 additional cases this week that were not on the linelist AB sent on the weekend. We are also hearing from returning workers who state they have completed their 14d quarantine in AB but we have no way of verifying this. I have placed a call with the CMOH office and await your call to discuss further steps.

Eleni



---

**From:** Galanis, Eleni [BCCDC]  
**Sent:** Wednesday, April 22, 2020 2:53 PM  
**To:** 'Deena Hinshaw'  
**Cc:** 'Brent Friesen'; Henry, Bonnie [EXT]; Marcia Johnson; Golmohammadi, Dr. Kamran [IHA]  
**Subject:** RE: Kearl Lake outbreak affecting BC residents  
**Importance:** High

Hi Deena and Marcia,

We have been notified of further secondary spread in the community in BC <sup>s.22</sup>  
<sup>s.22</sup>

We

are urging you to:

- Provide BC with a list of Imperial Oil workers who may have returned to BC (this can be a list of all workers which can then be filtered by postal code or other means)
- Hold an inter-provincial mtg to coordinate further data sharing and decision-making; if there is anything I can do to support this request with PHAC, please let me know

Thank you,

Eleni

---

**From:** Deena Hinshaw [mailto:Deena.Hinshaw@gov.ab.ca]  
**Sent:** Monday, April 20, 2020 5:38 PM  
**To:** Galanis, Eleni [BCCDC]  
**Cc:** 'Brent Friesen'; Treloar, Chelsea [BCCDC]; Henry, Bonnie [EXT]; Marcia Johnson  
**Subject:** RE: Kearl Lake outbreak affecting BC residents

Hi Eleni,

My apologies for not getting this call happening today. Dr. Marcia Johnson is helping coordinate, and we are pulling in PHAC to assist as well. We will try to get something set up for tomorrow to have this discussion.

In the meantime, a CNPHI posting will be going up tonight, and the dates of concern are March 29 to April 16. Outbreak measures currently in place at the camp are considered sufficient so that those who have been in the camp since April 16 are not considered to have been exposed.

Thanks,  
Deena

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16                      Cell Phone: s.16

---

**From:** Galanis, Eleni [BCCDC]  
**Sent:** Monday, April 20, 2020 6:14 PM  
**To:** Deena Hinshaw  
**Cc:** 'Brent Friesen' ; Treloar, Chelsea [BCCDC] ; Henry, Bonnie [EXT]  
**Subject:** RE: Kearl Lake outbreak affecting BC residents

Deena,

I understand that among the BC cases listed below, only 7 (6 in IHA and 1 in NHA) are currently in BC. In addition, apparently AB is reporting 3 BC cases who are isolating in AB. We learned this through an IHA nurse who has a regular contact in AB. If no national outbreak coordination call occurs tomorrow, is it possible to meet and discuss:

- A process for AB to report BC cases to BCCDC
- How to count BC cases isolating in AB

Thank you,  
Eleni

-----Original Message-----

From: Galanis, Eleni [BCCDC]  
Sent: Monday, April 20, 2020 1:50 PM  
To: 'Deena Hinshaw'; Henry, Bonnie [EXT]  
Cc: Gustafson, Reka [BCCDC]; Brent Friesen  
Subject: RE: Kearl Lake outbreak affecting BC residents

We checked and according to the IHA interview, Mar 12 is correct.

-----Original Message-----

From: Deena Hinshaw [mailto:Deena.Hinshaw@gov.ab.ca]

Sent: Monday, April 20, 2020 12:48 PM  
To: Galanis, Eleni [BCCDC]; Henry, Bonnie [EXT]  
Cc: Gustafson, Reka [BCCDC]; Brent Friesen  
Subject: RE: Kearl Lake outbreak affecting BC residents  
March 12? Not April 12?

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of  
Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16 Cell Phone: s.16

-----Original Message-----

From: Galanis, Eleni [BCCDC] <[Eleni.Galanis@bccdc.ca](mailto:Eleni.Galanis@bccdc.ca)>  
Sent: Monday, April 20, 2020 12:24 PM  
To: Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>  
Cc: Gustafson, Reka [BCCDC] <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; Brent Friesen  
<[Brent.Friesen@albertahealthservices.ca](mailto:Brent.Friesen@albertahealthservices.ca)>; Deena Hinshaw <[Deena.Hinshaw@gov.ab.ca](mailto:Deena.Hinshaw@gov.ab.ca)>  
Subject: RE: Kearl Lake outbreak affecting BC residents

Hi Bonnie,

Our epis tell us that the earliest onset date for BC cases is Mar 12 (one of the IHA cases).  
Eleni

-----Original Message-----

From: Henry, Bonnie HLTH:EX [<mailto:Bonnie.Henry@gov.bc.ca>]  
Sent: Monday, April 20, 2020 10:57 AM  
To: Brent Friesen; Galanis, Eleni [BCCDC]; 'Deena Hinshaw'  
Cc: Gustafson, Reka [BCCDC]; Golmohammadi, Dr. Kamran [IHA];  
[Rosemarie.Ramsingh@northernhealth.ca](mailto:Rosemarie.Ramsingh@northernhealth.ca) [NHA]  
Subject: RE: Kearl Lake outbreak affecting BC residents

Thanks Brent and Deena,

I am planning on putting out information on this outbreak this afternoon as we need to publicly  
advise people who may be in many places in BC to self isolate and connect with us asap given the  
timing of this outbreak and the fact people will be in the middle to end of the incubation period now.  
Could you please let me know what the first date of onset was so we can give a bit of a time frame.

Thanks,

Bonnie

Dr Bonnie Henry

Provincial Health Officer

Office of the PHO

Ministry of Health

4th floor, 1515 Blanshard St

Mailing address: PO Box 9648, STN PROV GOVT Victoria, BC V8W 9P4 [Bonnie.henry@gov.bc.ca](mailto:Bonnie.henry@gov.bc.ca)

Phone: s.17; s.19

I gratefully acknowledge that I live and work on the traditional unceded territory of the Lekwungen

Peoples, specifically the Songhees and Esquimalt First Nations. Hay'sxw'qu Si'em

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-----Original Message-----

From: Brent Friesen <[Brent.Friesen@albertahealthservices.ca](mailto:Brent.Friesen@albertahealthservices.ca)>

Sent: April 19, 2020 8:00 PM

To: Henry, Bonnie HLTH:EX <[Bonnie.Henry@gov.bc.ca](mailto:Bonnie.Henry@gov.bc.ca)>; XT:HLTH Galanis, Eleni

<[eleni.galanis@bccdc.ca](mailto:eleni.galanis@bccdc.ca)>; 'Deena Hinshaw' <[Deena.Hinshaw@gov.ab.ca](mailto:Deena.Hinshaw@gov.ab.ca)>

Cc: Gustafson, Reka [BCCDC] <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; XT:Golmohammadi, Dr. Kamran HLTH:IN

<[Kamran.golmohammadi@interiorhealth.ca](mailto:Kamran.golmohammadi@interiorhealth.ca)>; [Rosemarie.Ramsingh@northernhealth.ca](mailto:Rosemarie.Ramsingh@northernhealth.ca) [NHA]

<[Rosemarie.Ramsingh@northernhealth.ca](mailto:Rosemarie.Ramsingh@northernhealth.ca)>

Subject: RE: Kearl Lake outbreak affecting BC residents

Hi Bonnie and Eleni

I just wanted to reply that AHS is aware of the urgency of BC's request. Imperial Oil Limited has provided the names that had been withheld at the workers request and they understand that provision of the names and residence information is not optional for the exposed person or Imperial Oil to withhold.

It is unlikely we will have lists of all the employees and contractors at the Kearl Lake industrial site and the associated accommodation camp by their province of residence in the near future, however we hope to have a date range very soon.

Deena has asked PHAC today to provide input on a process for coordination nationally.

Regards

Brent Friesen

On Call for OCMOH

s.16

-----Original Message-----

From: Henry, Bonnie HLTH:EX [<mailto:Bonnie.Henry@gov.bc.ca>]

Sent: Sunday, April 19, 2020 5:01 PM

To: XT:HLTH Galanis, Eleni <[eleni.galanis@bccdc.ca](mailto:eleni.galanis@bccdc.ca)>

Cc: Gustafson, Reka [BCCDC] <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; Brent Friesen

<[Brent.Friesen@albertahealthservices.ca](mailto:Brent.Friesen@albertahealthservices.ca)>; XT:Golmohammadi, Dr. Kamran HLTH:IN

<[Kamran.golmohammadi@interiorhealth.ca](mailto:Kamran.golmohammadi@interiorhealth.ca)>; [Rosemarie.Ramsingh@northernhealth.ca](mailto:Rosemarie.Ramsingh@northernhealth.ca) [NHA]

<[Rosemarie.Ramsingh@northernhealth.ca](mailto:Rosemarie.Ramsingh@northernhealth.ca)>

Subject: Re: Kearl Lake outbreak affecting BC residents

Caution - This email came from an external address and may contain unsafe content. Ensure you trust this sender before opening attachments or clicking any links in this message.

Thanks I did raise this today at our SAC call and Deena indicated they have had challenges getting the needed info and also in coordination around the outbreak. Several other provinces also have cases including Saskatchewan and NS, NB.

I have asked for a time frame when cases started so we can do a public release asking anyone who was there to contact public health. Deena will try to get dares but thus is something to discuss with Brent as well.

Perhaps we can discuss additional measures on our evening call Reka ?

Bonnie

Dr Bonnie Henry  
Provincial Health Officer  
Ministry of Health  
[Bonnie.henry@gov.bc.ca](mailto:Bonnie.henry@gov.bc.ca)

s.17; s.19

On Apr 19, 2020, at 3:40 PM, Galanis, Eleni [BCCDC] <[Eleni.Galanis@bccdc.ca](mailto:Eleni.Galanis@bccdc.ca)> wrote:

Hello,

There are now 9 lab-confirmed cases of COVID-19 among BC residents who were exposed at the Kearl Lake Imperial Oil worksite; 8 from IHA and 1 from NHA. In addition, IHA has reported 1 epi-linked case in a symptomatic worker and 4 symptomatic HH contacts, 1 of which has tested positive, showing evidence of secondary spread.

I spoke to Kamran in IHA this morning. We remain concerned about the following:

- Possible cases or exposed workers residing in other BC HAs of which we are not aware
- Unclear case and contact management protocol by Imperial Oil and risk of undetected transmission in BC

o IHA released a PSA yesterday reminding returning workers to self-isolate

o IHA wants to investigate and monitor every one of these returning workers

AB provided us with a list of BC cases among workers yesterday. It included 8/9 of our cases; all 8 were from IHA. This list did not include the NHA case or exposed workers. I spoke to Brent from AB again this afternoon and asked for more info on the circumstances of the outbreak and a list of all BC residents who may have been exposed at Imperial Oil or any other related site. In addition, Brent and I agreed that an interprovincial outbreak mtg would be useful tomorrow to share info and coordinate decision-making. At Brent's request and under Bonnie's guidance, I provided AB with a list of BC cases associated with this outbreak which included the 8 cases AB was aware of and the 2 additional cases (1 lab-confirmed and 1 epi-linked) mentioned above.

Hopefully, you can also raise this at the national level to ensure all affected PTs are aware. Let me know if you need any further information.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director BC Centre for Disease Control 655 W12th Ave.  
Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) s.17

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**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [Fenton, Carol](#); [XT:Harding, John HLTH:IN](#); [XT:Kling, Rakei HLTH:IN](#); [XT:Hoyano, Dr Dee HLTH:IN](#); [Bharmal, Aamir Dr. HLTH:IN](#)  
**Cc:** [Buxton, Jane \[BCCDC\]](#); [XT:Naus, Monika HLTH:IN](#); [Chilton, Katharine \[BCCDC\]](#); [Henry, Bonnie HLTH:EX](#); [Gustafson, Reka \[BCCDC\]](#); [Singal, Mayank \[BCCDC\]](#); [Skowronski, Danuta \[BCCDC\]](#); [Treloar, Chelsea \[BCCDC\]](#)  
**Subject:** 17. BC residents exposed to AB Kearl Lake outbreak  
**Date:** April 24, 2020 4:01:59 PM

---

Hello all,

Imperial Oil Kearl Lake Camp in northern Alberta has been experiencing a COVID outbreak among workers. The outbreak is being managed by the employer. Workers who had a private vehicle were allowed to return home; those who did not are being quarantined on site. IHA has identified at least 8 confirmed cases among returned workers and NHA has identified 1.

At BC's request, BCCDC received from Alberta Health a list of BC workers who were at the Camp between March 10 and April 21. The list of 757 names came without addresses and we are in the process of assigning these to their HA of residence. AH recommendation is that anyone who was at the camp between March 29 and April 16 (between onset of first case in AB and implementation of control measures) be quarantined and monitored for symptoms. In BC, the onset of the first case was Mar 23 so I recommend we use **Mar 23-Apr 16** as the at-risk period.

Once these lists are ready later today, we will be sending them to each HA for your assessment/management. I am aware that IHA will be contacting each of these returned workers to assess their symptoms and determine management. If a coordinated approach to manage these is desired, I encourage you to discuss this at the CMHO mtg tonight.

AH is also working to obtain a list of Imperial Oil employees who may reside in BC but have been quarantined at Kearl Lake during this same period. We will share this when we get it.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) 604-417-1111

**From:** Covid [BCCDC]  
**To:** Henry, Bonnie HLTH:EX  
**Subject:** 18. Kearl Lake Camp - MHOs want a T/C can you attend?  
**Date:** April 25, 2020 2:52:28 PM

---

Hi Bonnie

I would like to arrange a T/C with the on call MHOs to make decisions re next steps regarding following up the workers at Kearl Lake did you wish to provide input/attend

In BC, the onset of the first case was Mar 23 so we will use **Mar 23-Apr 16** as the at-risk period but have >750 workers to contact.

Thanks

Jane

---

**From:** Kim, Jong [mailto:Jong.Kim@northernhealth.ca]

**Sent:** Saturday, April 25, 2020 2:36 PM

**To:** Golmohammadi, Dr. Kamran [IHA]; Covid [BCCDC]

**Cc:** Galanis, Eleni [BCCDC]; Henry, Bonnie [EXT]; Fyfe, Murray W. (Dr) [VIHA]; Stanwick, Richard (Dr) [VIHA]; Padhi, Shovita [FH]; Bharmal, Aamir [FH]; Harding, John [VCH]

**Subject:** Re: Kearl Lake Camp

I'd appreciate group discussion, and maybe invite someone from Alberta too.

NH team have started to contact some of the workers on the list. And we found that many of them have already returned to the camp.

They were not given any instruction to self isolate and have been travelling back and forth.

Given the flight information, we NH is expecting most of the workers in our list are back in the camp.

I am unclear how to proceed - are there multiple group of workers at different risk included in the list, and there are different recommendation for them?

Jong

---

**From:** Golmohammadi, Dr. Kamran [mailto:Kamran.Golmohammadi@interiorhealth.ca]

**Sent:** Saturday, April 25, 2020 2:28 PM

**To:** Buxton, Jane [BCCDC]

**Cc:** Galanis, Eleni [BCCDC]; Covid [BCCDC]; Henry, Bonnie [EXT]; Fyfe, Murray W. (Dr) [VIHA]; Stanwick, Richard (Dr) [VIHA]; Padhi, Shovita [FH]; Bharmal, Aamir [FH]; Harding, John [VCH]; Kim, Jong [NHA]

**Subject:** RE: Kearl Lake Camp

Hi Jane,

Thank you very much for the information. To ensure we are applying a consistent approach in follow-up of BC Kearl Lake workers, today I had the opportunity to speak with John Harding (VCH), Victoria Lee (Covering MHO on-call for Fraser Health), Jong Kim and Raina Fumerton (NH), and Murray Fyfe (Island Health).

Our team at Interior Health is still exploring how to manage the list of more than 400 workers given our limited resources.

s.13

Sincerely

Kamran

**I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional,**

**and unceded territory of the Syilx Nation.**

**Kamran Golmohammadi MD MSc FRCPC**

Medical Health Officer | Interior Health

Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5

Phone: 250-469-7070 Ext: 12789

Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)

Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

---

**From:** Buxton, Jane [BCCDC] [mailto:Jane.Buxton@bccdc.ca]

**Sent:** Saturday, April 25, 2020 11:15 AM

**To:** Fyfe, Murray W. (Dr) [VIHA]; Henry, Bonnie [EXT]; Stanwick, Richard (Dr) [VIHA]; Golmohammadi, Dr. Kamran; Bharmal, Aamir [FH]; Padhi, Shovita [FH]

**Cc:** Galanis, Eleni [PHSA]; Covid [BCCDC]

**Subject:** Kearl Lake Camp

Hi everyone,

I am following up regarding the Kearl Lake Oil camp xls lists that were sent to each of the HAs yesterday, as there seems to be some confusion and we can come to a mutual understanding of the next steps.

The list we received is of workers for the Imperial Oil Kearl Lake Camp in northern Alberta who were there between **March 10 and April 21**

- AB recommendation is that anyone was at the camp between **March 29 and April 16** be quarantined and monitor for symptoms, and if symptomatic, reach out to their local 811 for further information.

On April 16 Imperial Oil told workers with own vehicles told to leave and to self-quarantine on return home.

Those unable to leave were quarantined at the camp

Bonnie reinforced the message re self-quarantine in a news briefing

- The lists include dates prior to March 29 to cover the incubation period of the individual diagnosed in Alberta.
- Full contact information was not provided by the company and will not be sought by Alberta.
- Full information on a number of individuals (including municipality in which they live) is not available as some work as outside contractors and would have to be approached separately for confidential individual information.
- Some discrepancies between town and province have been noted and highlighted (further discrepancies may exist).

My (Jane's) understanding is as cases were identified in Interior- these individuals were in self quarantine and some 2nd spread to household cases

Kamran requested names of all who had worked at Kearl Lake as IH wished to follow up.

The list was received at BCCDC and staff reviewed the client registry to identify HA of residence which is as follows.

Here are the numbers by HA:

Fraser = 39

Interior= 406

Northern = 22

V. Coastal = 31

V. Island =168

No match + outside BC = 88

Total = 754

I don't believe the chiefs are meeting today but happy to coordinate a call as needed

Thanks

Jane

---

**From:** Galanis, Eleni [BCCDC] <[Eleni.Galanis@bccdc.ca](mailto:Eleni.Galanis@bccdc.ca)>

**Sent:** Friday, April 24, 2020 4:02 PM

**To:** Golmohammadi, Dr. Kamran [IHA] <[Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)>; Fenton, Carol <[Carol.Fenton@interiorhealth.ca](mailto:Carol.Fenton@interiorhealth.ca)>; Harding, John [VCH] <[John.Harding@vch.ca](mailto:John.Harding@vch.ca)>; Kling, Rakel [NHA] <[Rakel.Kling@northernhealth.ca](mailto:Rakel.Kling@northernhealth.ca)>; Hoyano, Dee (Dr) [VIHA] <[Dee.Hoyano@viha.ca](mailto:Dee.Hoyano@viha.ca)>; Bharmal, Aamir [FH] <[aamir.bharmal@fraserhealth.ca](mailto:aamir.bharmal@fraserhealth.ca)>

**Cc:** Buxton, Jane [BCCDC] <[Jane.Buxton@bccdc.ca](mailto:Jane.Buxton@bccdc.ca)>; Naus, Monika [BCCDC] <[Monika.Naus@bccdc.ca](mailto:Monika.Naus@bccdc.ca)>; Chilton, Katharine [BCCDC] <[Katharine.Chilton@bccdc.ca](mailto:Katharine.Chilton@bccdc.ca)>; Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>; Gustafson, Reka [BCCDC] <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; Singal, Mayank [BCCDC] <[mayank.singal@bccdc.ca](mailto:mayank.singal@bccdc.ca)>; Skowronski, Danuta [BCCDC] <[Danuta.Skowronski@bccdc.ca](mailto:Danuta.Skowronski@bccdc.ca)>; Treloar, Chelsea [BCCDC] <[Chelsea.Treloar@bccdc.ca](mailto:Chelsea.Treloar@bccdc.ca)>

**Subject:** BC residents exposed to AB Kearl Lake outbreak

Hello all,

Imperial Oil Kearl Lake Camp in northern Alberta has been experiencing a COVID outbreak among workers. The outbreak is being managed by the employer. Workers who had a private vehicle were allowed to return home; those who did not are being quarantined on site. IHA has identified at least 8 confirmed cases among returned workers and NHA has identified 1.

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AH is also working to obtain a list of Imperial Oil employees who may reside in BC but have been quarantined at Kearl Lake during this same period. We will share this when we get it.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) 604-999-7076

**From:** [XT:HLTH Fyfe, Murray](#)  
**To:** [XT:Kim, Jong HLTH:IN](#); [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [Covid \[BCCDC\]](#)  
**Cc:** [XT:HLTH Galanis, Eleni](#); [Henry, Bonnie HLTH:EX](#); [XT:HLTH Stanwick, Richard](#); [XT:Padhi, Dr. Shovita HLTH:IN](#); [Bharmal, Aamir Dr. HLTH:IN](#); [XT:Harding, John HLTH:IN](#)  
**Subject:** 19. RE: Kears Lake Camp  
**Date:** April 25, 2020 4:25:23 PM

---

There may be some differences in information that has been shared with the workers based upon the contracted company they work for. One of our workers who was with AECOM said they received no information about the need to self isolate.

---

**From:** Kim, Jong  
**Sent:** Saturday, April 25, 2020 2:36 PM  
**To:** Golmohammadi, Dr. Kamran ; Covid [BCCDC]  
**Cc:** Galanis, Eleni ; Henry, Bonnie [EXT] ; Fyfe, Murray W. (Dr) ; Stanwick, Richard (Dr) ; Padhi, Shovita ; Bharmal, Aamir [FH] ; Harding, John [VCH]  
**Subject:** Re: Kears Lake Camp

I'd appreciate group discussion, and maybe invite someone from Alberta too.  
NH team have started to contact some of the workers on the list. And we found that many of them have already returned to the camp.  
They were not given any instruction to self isolate and have been travelling back and forth.  
Given the flight information, we NH is expecting most of the workers in our list are back in the camp.  
I am unclear how to proceed - are there multiple group of workers at different risk included in the list, and there are different recommendation for them?  
Jong

---

**From:** Golmohammadi, Dr. Kamran <[Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)>  
**Sent:** April 25, 2020 2:33 PM  
**To:** Covid [BCCDC]  
**Cc:** Galanis, Eleni; Henry, Bonnie [EXT]; Fyfe, Murray W. (Dr) [VIHA]; Stanwick, Richard (Dr) [VIHA]; Padhi, Shovita; Bharmal, Aamir [FH]; Harding, John [VCH]; Kim, Jong  
**Subject:** RE: Kears Lake Camp

Hi Jane,

I agree. I am not aware of a group discussion on this specific topic.

Sincerely

Kamran

**I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional, and unceded territory of the Syilx Nation.**

**Kamran Golmohammadi MD MSc FRCPC**

Medical Health Officer | Interior Health

Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5

Phone: 250-469-7070 Ext: 12789

Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)

Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

---

**From:** Covid [BCCDC] [<mailto:covid@bccdc.ca>]

**Sent:** Saturday, April 25, 2020 2:30 PM

**To:** Golmohammadi, Dr. Kamran

**Cc:** Galanis, Eleni [PHSA]; Covid [BCCDC]; Henry, Bonnie [EXT]; Fyfe, Murray W. (Dr) [VIHA]; Stanwick, Richard (Dr) [VIHA]; Padhi, Shovita [FH]; Bharmal, Aamir [FH]; Harding, John [VCH]; Kim, Jong [NHA]

**Subject:** RE: Kearl Lake Camp

As before I think we should discuss as a group and decide so we are consistent.

Has there been any recommendation from Bonnie? Murray had said Richard was speaking to her Jane

---

**From:** Golmohammadi, Dr. Kamran [<mailto:Kamran.Golmohammadi@interiorhealth.ca>]

**Sent:** Saturday, April 25, 2020 2:28 PM

**To:** Buxton, Jane [BCCDC]

**Cc:** Galanis, Eleni [BCCDC]; Covid [BCCDC]; Henry, Bonnie [EXT]; Fyfe, Murray W. (Dr) [VIHA]; Stanwick, Richard (Dr) [VIHA]; Padhi, Shovita [FH]; Bharmal, Aamir [FH]; Harding, John [VCH]; Kim, Jong [NHA]

**Subject:** RE: Kearl Lake Camp

Hi Jane,

Thank you very much for the information. To ensure we are applying a consistent approach in follow-up of BC Kearl Lake workers, today I had the opportunity to speak with John Harding (VCH), Victoria Lee (Covering MHO on-call for Fraser Health), Jong Kim and Raina Fumerton (NH), and Murray Fyfe (Island Health).

Our team at Interior Health is still exploring how to manage the list of more than 400 workers given our limited resources.

s.13

Sincerely

Kamran

**I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional, and unceded territory of the Syilx Nation.**

**Kamran Golmohammadi MD MSc FRCPC**

Medical Health Officer | Interior Health

Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5

Phone: 250-469-7070 Ext: 12789

Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)

Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

---

**From:** Buxton, Jane [BCCDC] [<mailto:Jane.Buxton@bccdc.ca>]

**Sent:** Saturday, April 25, 2020 11:15 AM

**To:** Fyfe, Murray W. (Dr) [VIHA]; Henry, Bonnie [EXT]; Stanwick, Richard (Dr) [VIHA]; Golmohammadi, Dr. Kamran; Bharmal, Aamir [FH]; Padhi, Shovita [FH]

**Cc:** Galanis, Eleni [PHSA]; Covid [BCCDC]

**Subject:** Kearl Lake Camp

Hi everyone,

I am following up regarding the Kearl Lake Oil camp xls lists that were sent to each of the HAs yesterday, as there seems to be some confusion and we can come to a mutual understanding of the next steps.

The list we received is of workers for the Imperial Oil Kearl Lake Camp in northern Alberta who were there between **March 10 and April 21**

- AB recommendation is that anyone was at the camp between **March 29 and April 16** be quarantined and monitor for symptoms, and if symptomatic, reach out to their local 811 for further information.

On April 16 Imperial Oil told workers with own vehicles told to leave and to self-quarantine on return home.

Those unable to leave were quarantined at the camp

Bonnie reinforced the message re self-quarantine in a news briefing

- The lists include dates prior to March 29 to cover the incubation period of the individual diagnosed in Alberta.
- Full contact information was not provided by the company and will not be sought by Alberta.
- Full information on a number of individuals (including municipality in which they live) is not available as some work as outside contractors and would have to be approached separately for confidential individual information.
- Some discrepancies between town and province have been noted and highlighted (further discrepancies may exist).

My (Jane's) understanding is as cases were identified in Interior- these individuals were in self quarantine and some 2nd spread to household cases

Kamran requested names of all who had worked at Kearn Lake as IH wished to follow up.

The list was received at BCCDC and staff reviewed the client registry to identify HA of residence which is as follows.

Here are the numbers by HA:

Fraser = 39

Interior= 406

Northern = 22

V. Coastal = 31

V. Island =168

No match + outside BC = 88

Total = 754

I don't believe the chiefs are meeting today but happy to coordinate a call as needed

Thanks

Jane

---

**From:** Galanis, Eleni [BCCDC] <[Eleni.Galanis@bccdc.ca](mailto:Eleni.Galanis@bccdc.ca)>

**Sent:** Friday, April 24, 2020 4:02 PM

**To:** Golmohammadi, Dr. Kamran [IHA] <[Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)>; Fenton, Carol <[Carol.Fenton@interiorhealth.ca](mailto:Carol.Fenton@interiorhealth.ca)>; Harding, John [VCH] <[John.Harding@vch.ca](mailto:John.Harding@vch.ca)>; Kling, Raket [NHA] <[Raket.Kling@northernhealth.ca](mailto:Raket.Kling@northernhealth.ca)>; Hoyano, Dee (Dr) [VIHA] <[Dee.Hoyano@viha.ca](mailto:Dee.Hoyano@viha.ca)>; Bharmal, Aamir [FH] <[aamir.bharmal@fraserhealth.ca](mailto:aamir.bharmal@fraserhealth.ca)>

**Cc:** Buxton, Jane [BCCDC] <[Jane.Buxton@bccdc.ca](mailto:Jane.Buxton@bccdc.ca)>; Naus, Monika [BCCDC] <[Monika.Naus@bccdc.ca](mailto:Monika.Naus@bccdc.ca)>; Chilton, Katharine [BCCDC] <[Katharine.Chilton@bccdc.ca](mailto:Katharine.Chilton@bccdc.ca)>; Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>; Gustafson, Reka [BCCDC] <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; Singal, Mayank [BCCDC] <[mayank.singal@bccdc.ca](mailto:mayank.singal@bccdc.ca)>; Skowronski, Danuta [BCCDC] <[Danuta.Skowronski@bccdc.ca](mailto:Danuta.Skowronski@bccdc.ca)>; Treloar, Chelsea [BCCDC] <[Chelsea.Treloar@bccdc.ca](mailto:Chelsea.Treloar@bccdc.ca)>

**Subject:** BC residents exposed to AB Kearn Lake outbreak

Hello all,

Imperial Oil Kearn Lake Camp in northern Alberta has been experiencing a COVID outbreak among

workers. The outbreak is being managed by the employer. Workers who had a private vehicle were allowed to return home; those who did not are being quarantined on site. IHA has identified at least 8 confirmed cases among returned workers and NHA has identified 1.

At BC's request, BCCDC received from Alberta Health a list of BC workers who were at the Camp between March 10 and April 21. The list of 757 names came without addresses and we are in the process of assigning these to their HA of residence. AH recommendation is that anyone who was at the camp between March 29 and April 16 (between onset of first case in AB and implementation of control measures) be quarantined and monitored for symptoms. In BC, the onset of the first case was Mar 23 so I recommend we use **Mar 23-Apr 16** as the at-risk period.

Once these lists are ready later today, we will be sending them to each HA for your assessment/management. I am aware that IHA will be contacting each of these returned workers to assess their symptoms and determine management. If a coordinated approach to manage these is desired, I encourage you to discuss this at the CMHO mtg tonight.

AH is also working to obtain a list of Imperial Oil employees who may reside in BC but have been quarantined at Kearl Lake during this same period. We will share this when we get it.

Eleni

Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, BCCDC EOC Director

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516 (c) 604-999-7076

**From:** Buxton, Jane [BCCDC]  
**To:** XT:Golmohammadi, Dr. Kamran HLTH:IN; XT:HLTH Fyfe, Murray; XT:Harding, John HLTH:IN; XT:Kim, Jong HLTH:IN; XT:Fumerton, Raina HLTH:IN; Henry, Bonnie HLTH:EX; XT:Lee, Victoria HLTH:IN; Gill, Manav [FH]; XT:HLTH Galanis, Eleni  
**Cc:** Amos, Heather [BCCDC]  
**Subject:** 20. RE: Kearl Lake T/C  
**Date:** April 25, 2020 5:02:53 PM

---

Thanks for attending T/C.

Murray, Manav, John, Kamram, Jane

**Summary:**

BCCDC received a list of 757 names of the Kearl Lake work camp employees from Alberta Health that were at the work site between March 10<sup>th</sup> and April 21<sup>st</sup>, with no contact information, DOB or other identifiers. There was some information on the city/town where the employees live, but this information was not complete. Client registry was used to identify HA of residence and each HA sent list.

FH = 39; IH = 406; NH = 22; VCH = 31; IsH = 168; No match + outside BC = 88

HAs have been using Panorama and Meditech to identify phone #s but with limited success.

IH made contact with 4 of 7 names- individuals reported informed and updated by employer through e-mail or an 'app'

However information received may differ by company.

Within the camp there are different employers majority are IOL and NACG;

but 16 other companies - AECOM; Blue Water; BME; Bouchier; Brock; BV; Diversified; Finning; FMLS/Civeo; Garda; Genmec; Horizon; Kentz; MFM; MISOS; Wards

Murray: a worker with AECOM reported receiving no information about the need to isolate.

Jong: some workers have returned to the camp

**Concerns:**

Persons returning to rural communities

In BC a 3<sup>rd</sup> case where worker has secondarily infected HCW - the latest had mild symptoms only.

Uncertainty if control measures after April 16 at camp sufficient

Jane will contact AHS to explore get contacts for Imperial Oil and other companies.

Ideally to request individual phone #s for BC residents; or for the company(ies) to send out a further request re self-monitoring and household members who are HCW to be extremely vigilant.

We also discussed social media opportunities to reach the employees and their families; and/or need for further media alerts.

Jane

**From:** Galanis, Eleni [BCCDC] <Eleni.Galanis@bccdc.ca>

**Sent:** Friday, April 24, 2020 4:02 PM

**Subject:** BC residents exposed to AB Kearl Lake outbreak

Hello all,

Imperial Oil Kearl Lake Camp in northern Alberta has been experiencing a COVID outbreak among workers. The outbreak is being managed by the employer. Workers who had a private vehicle were allowed to return home; those who did not are being quarantined on site. IHA has identified at least 8 confirmed cases among returned workers and NHA has identified 1.

At BC's request, BCCDC received from Alberta Health a list of BC workers who were at the Camp between March 10 and April 21. The list of 757 names came without addresses and we are in the process of assigning these to their HA of residence. AH recommendation is that anyone who was at

the camp between March 29 and April 16 (between onset of first case in AB and implementation of control measures) be quarantined and monitored for symptoms. In BC, the onset of the first case was Mar 23 so I recommend we use **Mar 23-Apr 16** as the at-risk period.

Once these lists are ready later today, we will be sending them to each HA for your assessment/management. I am aware that IHA will be contacting each of these returned workers to assess their symptoms and determine management. If a coordinated approach to manage these is desired, I encourage you to discuss this at the CMHO mtg tonight.

AH is also working to obtain a list of Imperial Oil employees who may reside in BC but have been quarantined at Kearn Lake during this same period. We will share this when we get it.

Eleni

**From:** s.22  
**To:** [Henry, Bonnie HLTH:EX](#); [Dix,MLA, Adrian LASS:EX](#)  
**Subject:** 21. Inter-Provincial man camp outbreak  
**Date:** April 25, 2020 6:47:19 PM

---

Dear Dr Henry and Mr Dix

I have been trying to bring this to your attention for some time now, and now what I feared would happen, is happening. Please close these camps down as soon as possible.

Thank you,

s.22

INTER-PROVINCIAL MAN CAMP OUTBREAK: There are now 10 BC COVID-19 cases connected to man camp workers returning from the Kearl Lake tarsands project in Alberta.

[https://www.victoriabuzz.com/2020/04/four-more-covid-19-patients-dead-in-b-c-29-new-cases-reported-today/?fbclid=IwAR0yD9Dj\\_xkX](https://www.victoriabuzz.com/2020/04/four-more-covid-19-patients-dead-in-b-c-29-new-cases-reported-today/?fbclid=IwAR0yD9Dj_xkX)

And this---please read.

**The province “thwarted” remote community attempts to lock down.**

**Now, one of them has recorded its first death.**

Copyright

<https://www.capnews.ca/news/covid19-alert-bay-nuxalk-quarantine>

**From:** [Buxton, Jane \[BCCDC\]](#)  
**To:** [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [XT:HLTH Fyfe, Murray](#); [XT:Harding, John HLTH:IN](#); [XT:Kim, Jong HLTH:IN](#); [XT:Fumerton, Raina HLTH:IN](#); [Henry, Bonnie HLTH:EX](#); [XT:Lee, Victoria HLTH:IN](#); [Gill, Manav \[FH\]](#); [XT:HLTH Galanis, Eleni](#); [Bharmal, Aamir Dr. HLTH:IN](#); [XT:Hoyano, Dr Dee HLTH:IN](#)  
**Cc:** [Amos, Heather \[BCCDC\]](#); [Covid \[BCCDC\]](#); [Buxton, Jane \[BCCDC\]](#)  
**Subject:** 22. Kearl Lake update from AHS  
**Date:** April 25, 2020 8:29:17 PM

---

## Dear colleagues, minor updates

### AHS

I spoke to Marcia Johnson (780-819-9453) at AHS about getting more information about the workers. Good to see colleagues <sup>s.22</sup>

It sounded like there was considerable back and forth with AHS and IOC to get the names. AHS sent what they felt the P/T seemed anxious to get the names.

She suggests BCCDC contact her again on Monday - phone # above. She can connect us with a staff member who listens into the daily camp updates and there is an OHS physician.

They may be able to help us get more information. I suggested could also be messaging to the men to inform their household members to be aware and be vigilant.

Kearl Lake is a huge work site

There is a plane owned by the company that flies men into the camp from Calgary

To date 49 cases have been identified in workers

Cases include 4 who were asymptomatic and identified through testing about 1,600 workers

Those who were asymptomatic and tested positive were isolated for 10 days after the test results reported.

I asked about measures taken to identify and prevent new cases at the camp since April 16.

Marcia seemed fairly confident the camp is being effective and doing what they can

- The men are screened every day for symptoms and have daily temperatures taken.
- Communal areas are closed- no gym, no dining room, no socialising allowed
- The men pick up their meal and take to their room and watch TV.
- When working they stay 2 metres apart; if they are closer then they wear masks.
- Lots of hand washing facilities

I mentioned we had concerns re some of the men had gone home without any instructions re self-monitoring

The company is keen to prevent cases and transmission as it is very disruptive for the company and the men

Returning to site with symptoms then would be in isolation immediately in own room

### Social media

I spoke to Heather Amos (BCCDC Coms) who will continue to push out messaging on social media through BCCDC and PHSA.

We also discussed potential for Ad buy through Facebook

Hope this helps

Jane

---

**From:** Buxton, Jane [BCCDC]

**Sent:** Saturday, April 25, 2020 5:03 PM

**To:** Golmohammadi, Dr. Kamran [IHA]; Fyfe, Murray W. (Dr) [VIHA]; Harding, John [VCH]; Kim, Jong [NHA]; Fumerton, Raina [NHA]; Henry, Bonnie [EXT]; Lee, Victoria [FH]; Gill, Manav [FH]; Galanis, Eleni [BCCDC]

**Cc:** Amos, Heather [BCCDC]

**Subject:** RE: Kearl Lake T/C

Thanks for attending T/C.

Murray, Manav, John, Kamram, Jane

**Summary:**

BCCDC received a list of 757 names of the Kearl Lake work camp employees from Alberta Health that were at the work site between March 10<sup>th</sup> and April 21<sup>st</sup>, with no contact information, DOB or other identifiers. There was some information on the city/town where the employees live, but this information was not complete. Client registry was used to identify HA of residence and each HA sent list.

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but 16 other companies - AECOM; Blue Water; BME; Bouchier; Brock; BV; Diversified; Finning; FMLS/Civeo; Garda; Genmec; Horizon; Kentz; MFM; MISOS; Wards

Murray: a worker with AECOM reported receiving no information about the need to isolate.

Jong: some workers have returned to the camp

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Persons returning to rural communities

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Uncertainty if control measures after April 16 at camp sufficient

Jane will contact AHS to explore get contacts for Imperial Oil and other companies.

Ideally to request individual phone #s for BC residents; or for the company(ies) to send out a further request re self-monitoring and household members who are HCW to be extremely vigilant.

We also discussed social media opportunities to reach the employees and their families; and/or need for further media alerts.

Jane

---

**From:** Galanis, Eleni [BCCDC] <[Eleni.Galanis@bccdc.ca](mailto:Eleni.Galanis@bccdc.ca)>

**Sent:** Friday, April 24, 2020 4:02 PM

**Subject:** BC residents exposed to AB Kearl Lake outbreak

Hello all,

Imperial Oil Kearl Lake Camp in northern Alberta has been experiencing a COVID outbreak among workers. The outbreak is being managed by the employer. Workers who had a private vehicle were allowed to return home; those who did not are being quarantined on site. IHA has identified at least

8 confirmed cases among returned workers and NHA has identified 1.

At BC's request, BCCDC received from Alberta Health a list of BC workers who were at the Camp between March 10 and April 21. The list of 757 names came without addresses and we are in the process of assigning these to their HA of residence. AH recommendation is that anyone who was at the camp between March 29 and April 16 (between onset of first case in AB and implementation of control measures) be quarantined and monitored for symptoms. In BC, the onset of the first case was Mar 23 so I recommend we use **Mar 23-Apr 16** as the at-risk period.

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AH is also working to obtain a list of Imperial Oil employees who may reside in BC but have been quarantined at Kearn Lake during this same period. We will share this when we get it.

Eleni

**From:** [Chapman, Ronald](#)  
**To:** [Deena Hinshaw](#); [XT:Fumerton, Raina HLTH:IN](#); [Gustafson, Reka \[BCCDC\]](#); [Lanenga, Karien](#); [XT:Kim, Jong HLTH:IN](#)  
**Cc:** [Henry, Bonnie HLTH:EX](#); [Corneil, Trevor HLTH:EX](#); [Emerson, Brian P HLTH:EX](#); [Marcia Johnson](#); [Elaine Chan](#); [Health CD M](#)  
**Subject:** 23. RE: Notification returning workers to BC from industrial camp in Alberta  
**Date:** April 26, 2020 10:29:55 AM

---

Thank you Deena. Good to know. The initial information we received was not clear.

Keep well

---

Dr Ronald Chapman MD FRCPC MBBCH MMed  
VP Medicine  
Northern Health  
Sent from [Workspace ONE Boxer](#)

On April 26, 2020 at 10:07:44 AM PDT, Deena Hinshaw wrote:

The local MOH has provided the following information:  
Workers are not being sent home. There are some project and rotation changes but nothing specific to infection. There have been no intentional layoffs related to the COvId situation. I hope that helps – let me know if you need anything further.  
Thanks,  
Deena

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16, Cell Phone: s.16

---

**From:** Fumerton, Raina  
**Sent:** Friday, April 24, 2020 4:51 PM  
**To:** 'Gustafson, Reka [BCCDC]'; Deena Hinshaw; Chapman, Ronald; Lanenga, Karien; Kim, Jong  
**Cc:** 'Henry, Bonnie [EXT]'; 'Corneil, Trevor [EX]'; 'Emerson, Brian [EXT]'  
**Subject:** RE: Notification returning workers to BC from industrial camp in Alberta  
Resending as I had the wrong email for Deena.  
Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
Acting Chief Medical Health Officer  
Northern Health  
[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)  
250-631-4261

---

**From:** Fumerton, Raina  
**Sent:** Friday, April 24, 2020 3:41 PM  
**To:** 'Gustafson, Reka [BCCDC]' <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; Deen Hinshaw <[deena.hinshaw@gov.bc.ca](mailto:deena.hinshaw@gov.bc.ca)>; Chapman, Ronald <[Ronald.Chapman@northernhealth.ca](mailto:Ronald.Chapman@northernhealth.ca)>; Lanenga, Karien <[Karien.Lanenga@northernhealth.ca](mailto:Karien.Lanenga@northernhealth.ca)>; Kim, Jong <[Jong.Kim@northernhealth.ca](mailto:Jong.Kim@northernhealth.ca)>  
**Cc:** Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>; Corneil, Trevor [EX] <[Trevor.Corneil@gov.bc.ca](mailto:Trevor.Corneil@gov.bc.ca)>; Emerson, Brian [EXT] <[Brian.Emerson@gov.bc.ca](mailto:Brian.Emerson@gov.bc.ca)>

**Subject:** RE: Notification returning workers to BC from industrial camp in Alberta  
Thanks so much – the physicians in one of our northern communities are quite concerned – really appreciate you looking into this Deena!  
Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
Acting Chief Medical Health Officer  
Northern Health  
[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)  
250-631-4261

---

**From:** Gustafson, Reka [BCCDC] [<mailto:reka.gustafson@phsa.ca>]  
**Sent:** Friday, April 24, 2020 12:08 PM  
**To:** Fumerton, Raina <[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)>; Deen Hinshaw <[deena.hinshaw@gov.bc.ca](mailto:deena.hinshaw@gov.bc.ca)>  
**Cc:** Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>; Corneil, Trevor [EX] <[Trevor.Corneil@gov.bc.ca](mailto:Trevor.Corneil@gov.bc.ca)>; Emerson, Brian [EXT] <[Brian.Emerson@gov.bc.ca](mailto:Brian.Emerson@gov.bc.ca)>  
**Subject:** Re: Notification returning workers to BC from industrial camp in Alberta

Hi Raina,  
I have just spoken with Dr. Deena Hinshaw, who is copied here. She will look into the question.  
Many thanks Deena.  
My best,  
Reka  
Sent from my iPhone

On Apr 24, 2020, at 11:55 AM, Fumerton, Raina  
<[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)> wrote:

Hi Everyone,  
Not sure how accurate this is so wanted to check in ... Is Kearl lake camp actually sending 1000 people home imminently?  
Thanks,  
Raina  
Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
Acting Chief Medical Health Officer  
Northern Health  
[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)  
250-631-4261

**From:** Chapman, Ronald  
**Sent:** Friday, April 24, 2020 11:41 AM  
**To:** Central CD HUB <[CentralCDHUB@northernhealth.ca](mailto:CentralCDHUB@northernhealth.ca)>  
**Cc:** Kling, Rakel <[Rakel.Kling@northernhealth.ca](mailto:Rakel.Kling@northernhealth.ca)>; Kim, Jong <[Jong.Kim@northernhealth.ca](mailto:Jong.Kim@northernhealth.ca)>; Fumerton, Raina <[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)>; Gray, Andrew <[Andrew.Gray@northernhealth.ca](mailto:Andrew.Gray@northernhealth.ca)>; Ramsingh, Rosemarie <[Rosemarie.Ramsingh@northernhealth.ca](mailto:Rosemarie.Ramsingh@northernhealth.ca)>

**Subject:** Notification returning workers to BC from industrial camp in Alberta  
Hi CD Team

Dr Harry Keyter (Cell: s.22 , Clinic 250-5664893) from the Valemout Diagnostic Clinic phoned and said they were informed that there was a Covid-19 outbreak at the Kearl Industrial Camp (40 km north of Ft McMurry) in Alberta and that they are sending a 1000 workers home and that some of those workers will be returning to Valemout. He did not have a list of names of the returning workers. The outbreak was reported on the 16 April and it appears, they have not been able to control the infection and sending the workers home.  
When the outbreak was reported in Alberta

<https://www.theglobeandmail.com/canada/alberta/article-coronavirus-outbreak-hits-albertas-kearl-lake-oil-sands-camp/>  
Keep well

---

Dr Ronald Chapman MD FRCPC MBBCH MMed  
VP Medicine  
Sent from Workspace ONE Boxer

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail.

**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** [Bharmal, Aamir Dr. HLTH:IN](#); [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [XT:Kim, Jong HLTH:IN](#); [XT:Hoyano, Dr Dee HLTH:IN](#); [XT:Harding, John HLTH:IN](#)  
**Cc:** [XT:Naus, Monika HLTH:IN](#); [Singal, Mayank \[BCCDC\]](#); [Treloar, Chelsea \[BCCDC\]](#); [Gustafson, Reka \[BCCDC\]](#); [XT:HLTH Gilbert, Mark](#); [Henry, Bonnie HLTH:EX](#)  
**Subject:** 24. Update on Kearl Lake  
**Date:** May 1, 2020 1:20:22 PM  
**Attachments:** [image002.png](#)  
[Kearl Lake situation report and timeline for PTs.pdf](#)  
**Importance:** High

---

Hi all,

As promised, here is a summary from the 2<sup>nd</sup> national call on the Kearl Lake outbreak which occurred this morning (also see report from AHS attached).

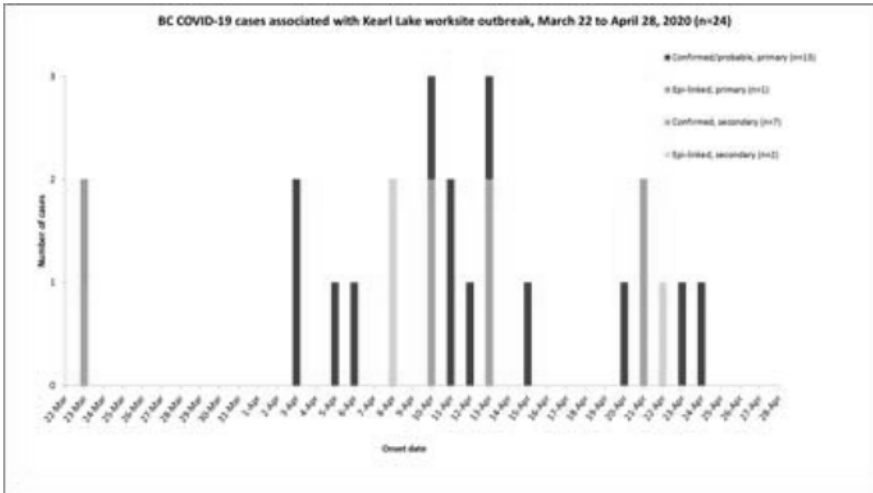
**In summary: The outbreak at Kearl Lake is still active (last onset Apr 26). Increased controls have been implemented as of Apr 16. Cases and contacts who are onsite are being managed onsite. Management of contacts offsite is unclear. Communication/advice to other workers is unclear. BC has not received a list of workers who are considered close contacts; the list we received is not considered a list of close contacts although it may include close contacts. We are still awaiting phone numbers for this list.**

**I don't feel this outbreak is yet under control and I am not confident that close contacts of cases who have left the worksite have been identified and managed. BCCDC will continue to work with AHS and PHAC to obtain further info on this. In the interim, I recommend we re-iterate our public messaging for returned workers to self-monitor and be particularly vigilant if they live with high risk individuals or who individuals who are HCW and report to BC PH if they develop symptoms. If desired, we can setup a mtg to discuss this approach today or tomorrow.**

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## Kearl Lake Outbreak Report

April 30, 2020 as of 12PM

- **Confirmed or probable case:** confirmed or probable case meeting the Alberta Health case definition for a COVID-19 case (refer to <https://open.alberta.ca/publications/coronavirus-covid-19>) AND epidemiologically linked to site (where most likely source of infection was an exposure at the outbreak site/setting, and individual was exposed within known incubation period prior to symptom onset)
- **Incubation Period** (time from infection until symptoms): 14 days
- **Period of Communicability** (period of time during which the sick person can transmit disease to others): 10 days from symptom onset or symptom resolution, whichever is longer

### Site description

Kearl Lake is a large oil sands worksite ~70 km north of Fort McMurray. Numerous companies have workers on the site, with Imperial Oil being the largest. The site also has a work camp for employees – accommodations provided by Civeo Corporation. There is a camp located onsite (North Sands Lodge), as well as one that is ~20 km away (Civeo Wapasu). The work camps function as a residence for workers, most of whom fly in for typically 7-day on, 7-day off shifts. All clients each have a separate room with their own bathroom/shower.

Imperial Oil, which is owned by ExxonMobil, hires aviation company Canadian North to provide flights for their workers from two hubs (Edmonton and Calgary) to a private landing strip. Upon arrival, workers are bussed onto the site. Employees are expected to find their own way to either Edmonton or Calgary. The majority of workers live in Alberta, but a proportion of the workforce consists of residents from other provinces/territories. Employees in Fort McMurray are bussed to the site by a contracted company (Diversified Transportation).

**Current Outbreak Status:** Ongoing

### Current Situation

<b>Overall number of primary cases (confirmed or probable) directly linked to Kearl Lake (includes recovered cases)</b>	<b>90</b>
Counted in Alberta	71
Counted in other P/Ts (BC, Saskatchewan, Nova Scotia)	19*

\*May be lag in reporting. Updated as AB notified.

For cases reported by Alberta (n=71):	
<b>Breakdown by case status:</b>	
Confirmed – Symptomatic	54*
Confirmed - Asymptomatic	15
Probable	2
<b>Breakdown by on vs. off site isolation:</b>	
Isolated on site	35
Isolated off site	36

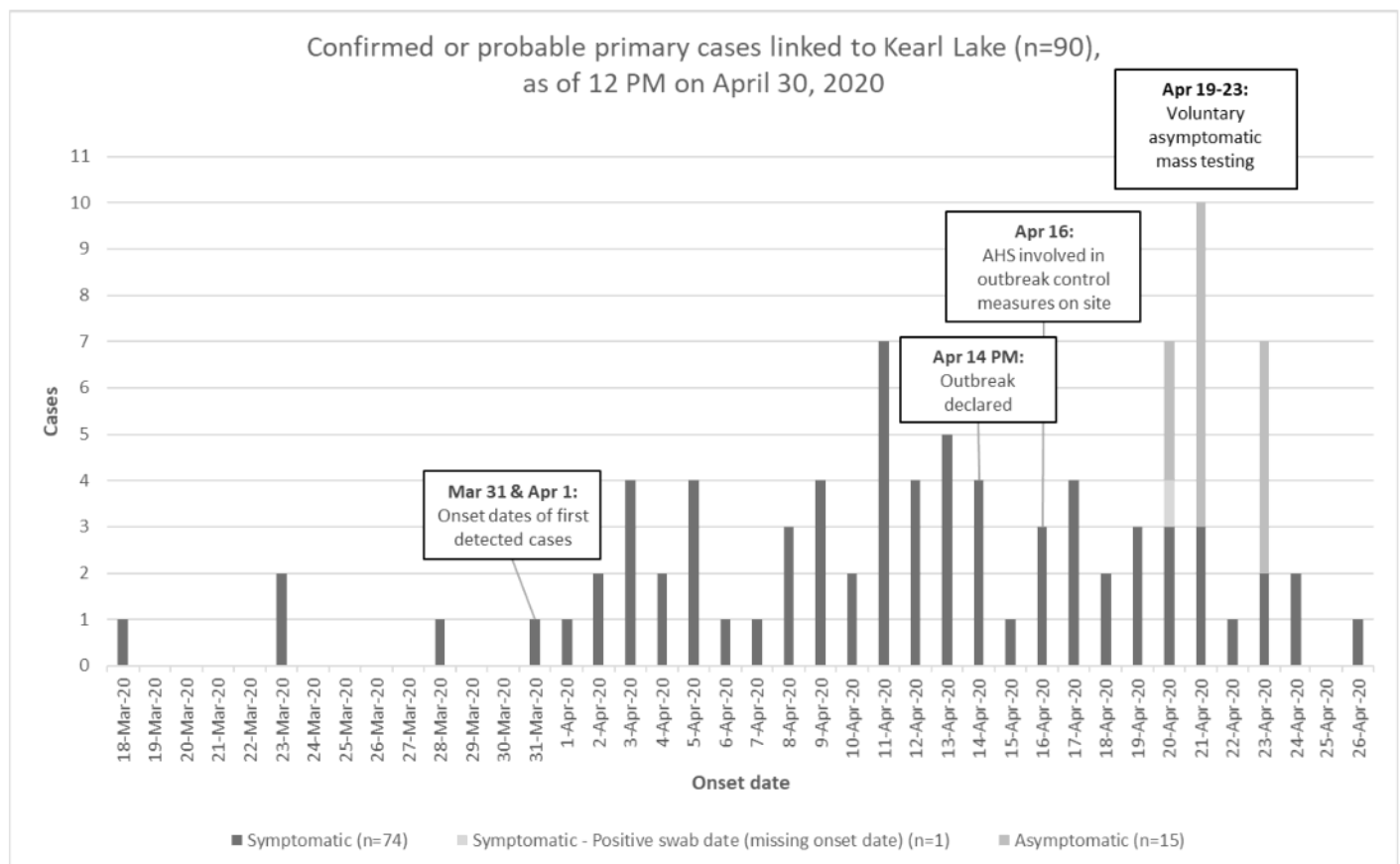
<b>Case severity</b>	
Hospitalizations/ICU admissions	2**
Deaths	0
<b>Demographics</b>	
Average age (range), years	44.8 years (range: 25-63 years)
% Male	84.5%

*Probable case = epi-linked and symptomatic, without positive test result*

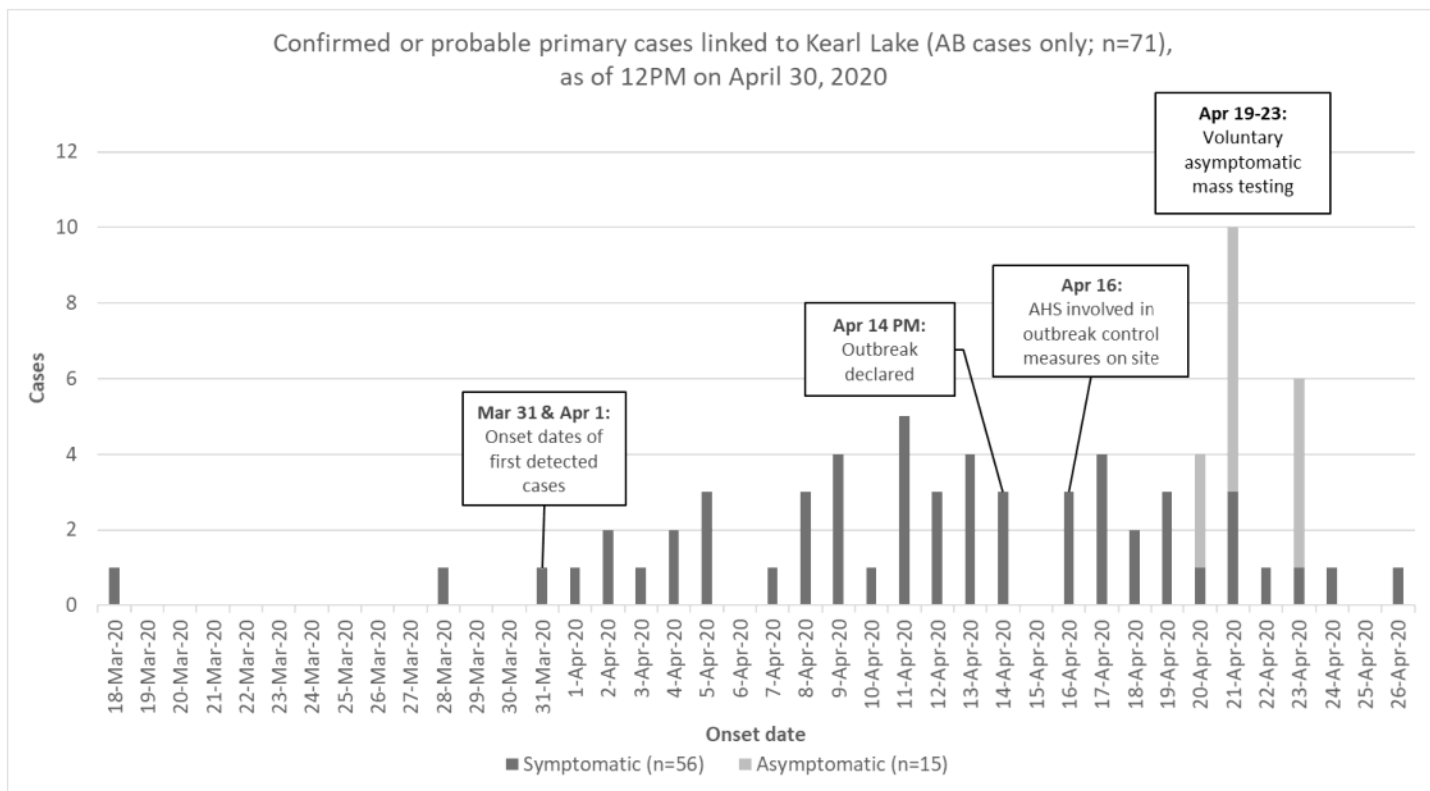
*\*Symptomatic at some point in time.*

*\*\*Both hospitalizations involved ICU admission.*

### Epidemiological curve:



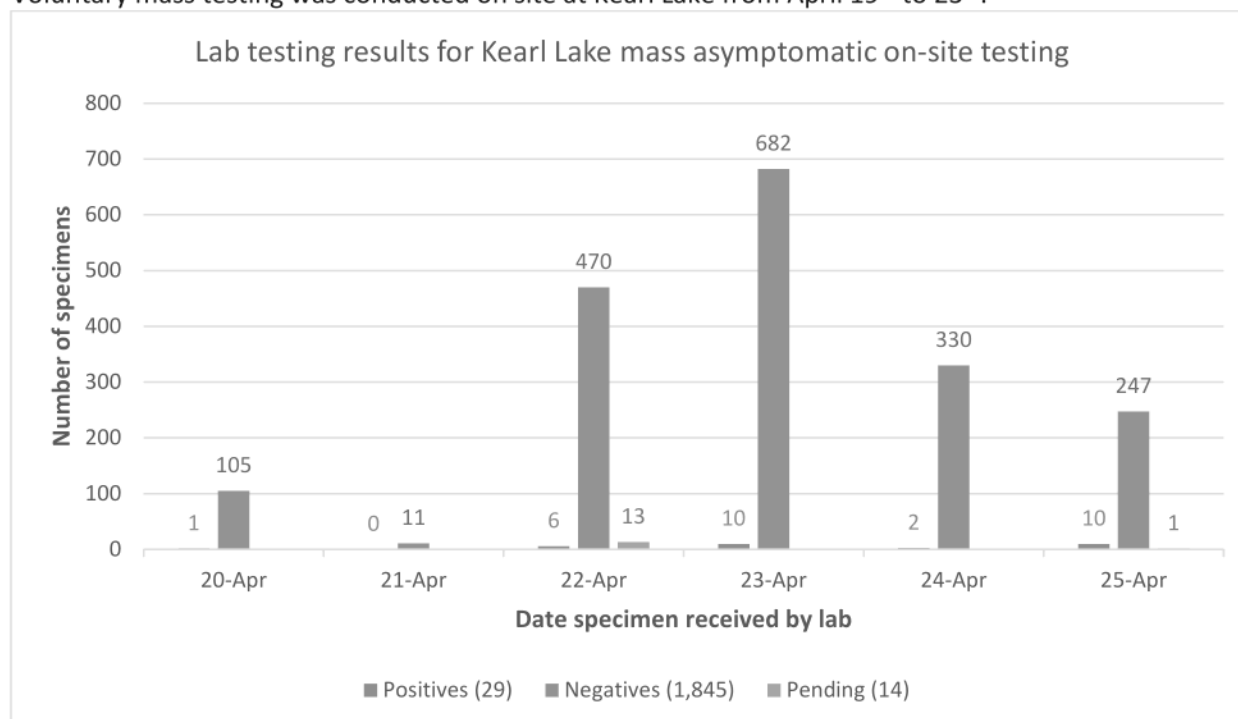
**Data notes:** Includes cases in other P/Ts. Onset date for asymptomatic cases = date swab taken. Positive swab date used for symptomatic cases where onset date information missing. This date may vary considerably from symptom onset date.



**Data note:** Onset date for asymptomatic cases = date positive swab taken.

### Mass Testing

Voluntary mass testing was conducted on site at Kearl Lake from April 19<sup>th</sup> to 23<sup>rd</sup>:



- 1,888 total specimens received for 1,860 unique individuals tested
- 1,874 tests completed and 14 results still pending
- 29 positive results/1,874 completed tests (1.5% positivity) – 28 unique individuals found to test positive. These individuals were all asymptomatic at time of testing – some have recalled symptoms retrospectively upon interview, some have remained asymptomatic, and some have developed symptoms following testing.

### **Timeline of actions taken at the site prior to outbreak**

#### **End of January**

- Flight symptom screening test implemented
- Health awareness, communication and personal hygiene measures promoted - ongoing
- China/International traveler screening and facility entry restrictions ~ end of January - present
- Traveler health screening and self-isolation
- Educational sessions
- No cases identified

#### **March 11**

- Global Pandemic declared
- Civeo reported that they increased environmental cleaning of shared spaces

#### **March 14**

- International travel screening started - Pre-access flight centre screening being done.

#### **March 15**

- Dining Room
  - Closed buffet and now serving people
  - Lunches now pre-packaged
- Cleaning
  - Cleaning with virucidal cleaning agents:
    - High touch surfaces every 2 hours later changed to every 15 minutes
    - Common areas every 15 minutes
    - Dining room tables and chairs between each person
      - Green and Red cards as people sit down and get up respectively
- Security enforced use of hand sanitizer before entry into dining room

#### **March 16**

- Closed gyms
- Restrictions on face-to face meetings
- Flight capacity reduced to increase social distancing on flights

#### **March 19**

- Hand sanitizer before going into the "bag-up" room where workers pack their lunch from a selection of pre-packaged foods
- Bussing spacing/density reduced - (50% capacity)

**March 21**

- Flight density /reduced until mid-April
- Enhanced social distancing measures and increased PPE (shields or masks for close proximity work)

**March 24**

- Extension to alley exterior “room” which is a series of turnstiles to increase distance between workers boarding bus to worksite from lodge and vice versa.

**March 26**

- Daily temperature (infrared thermometer) screening at the lodge

**April 1**

- Additional wash sinks added to facilitate hand washing with soap for those with sensitivity to hand sanitizer

**April 10**

- Onsite temperature screening at all access points - North Sands Lodge (onsite at Kearl worksite)

**April 11**

- Wapasu Lodge – Onsite temperature screening at all access points

**April 14 (evening)**

- Dr. Hinshaw notified of an outbreak (by MOH Dr. Kristin Klein). Aware of two positive cases, with one in ICU (symptom onset dates March 31 and April 1 – diagnosed April 12<sup>th</sup>).

**Timeline of actions taken/control strategies implemented since outbreak declared:****April 16**

- AHS Public Health became involved in control measures on site.
- All kitchen staff masked
- Dining room closed. All clients line up at 2 meters for served food, which they take to their rooms to eat.
- Company-wide memo sent from VP of Production at Imperial Oil, outlining measures being taken to protect workers.

**April 19-23**

- Mass voluntary testing undertaken for all individuals on site (1,888 tests completed).
- As of April 30th, 29 positive test results have been received from this mass testing (refer to Mass Testing section for further details).

**April 27**

- Updated messaging from AHS CD to cases they contact:
  - Teams are doing advance phone calls to briefly inform people they tested positive and to instruct them to self-isolate and if they have house hold contact they need to self-isolate too.

- They will receive a phone call from an investigator within 48 hours to do a full case investigation. Some of the employees would have been called and messages left asking them to call back a 1-888 number
- Our standard messaging is to provide disease course information, educate as to what to do if symptoms become worse, and discuss with them the things they can do to prevent spread: maintain isolation for 10 days from onset or until symptoms resolve, or for contacts maintain the 14 day quarantine. We also review how capable they are to isolate within their current environment and strategies that might help depending on that situation, and stress no traveling/flying while in the isolation or quarantine time frame.
- Close contacts identified on site are being followed by the company and must remain in isolation on site for the 14-day quarantine period.

**Because of the continuous masking protocols and the overall measures that have been applied at the site, in the camps and during chartered transportation, we believe that the company has taken all necessary measures to stop ongoing transmission to those on site or at the camps.**

Further information provided by Civeo on April 30<sup>th</sup> in regards to accommodations and isolation on site:

**1. How many employees are currently working on the Kearl site, including contractors?**

For Civeo (as of April 29):

Wapasu:	124 employees & 37 contractors
North Sands:	22 employees & contractors combined

For Imperial Oil (total head count – workforce in camp and onsite):

April 1 ~2,250 → April 15 ~2,080 → April 30 ~1,440

At the Civeo-run lodges on the Kearl site:

**1. What is the camp capacity for accommodation?**

Wapasu Main/East is a normally combined total of 4,062; however, this has been reduced to 2,892 in order to provide a private washroom to each person. Wapasu West is normally 1,184; however, this has been reduced to 843 in order to provide a private washroom for each person. This does not factor in rooms removed from service for those in isolation or quarantine. North Sands Lodge has 450 rooms.

**2. How many people are currently residing there?**

This changes daily, and is reducing slightly. As of April 29th, there are 1,056 guests, 124 employees, and 37 contractors at Wapasu East/Main. 54 in isolation or quarantine at Wapasu West (this is fluid). 324 guests and 22 employees in North Sands Lodge.

**3. How are confirmed/probable cases being separated from the general population within the accommodation setting?**

Wapasu currently includes 3 buildings: Wapasu East, Wapasu West, and Wapasu Main. Currently, only Wapasu East and Wapasu Main are open for most guests. The isolation dorms are in Wapasu West, which is otherwise empty. The fourth building, Henday, has since been decommissioned and the remaining portion is not useable at the moment. We are also operating North Sands Lodge, which is on the Kearl site and is owned by IOL.

We have several different isolation/quarantine dorms set up in Wapasu West that are for anyone at the Kearsal project. Several dorms are stand-alone dorms that are not attached, while a few dorms are attached but at the end of the building. All isolation/quarantine dorms have outside access so people do not have to go through the building in order to access them. Demarcated fresh air/smoking areas are identified for each dorm.

- a. Confirmed positive people are in a separate isolation dorm. We are currently using dorms 51, 52, and part of 53 for those who are positive. These are three-storey dorms so we are able to put different people on different floors.
- b. Those in isolation who have not been confirmed positive are in another separate dorm. Air conditioning units use a shared system – however, the systems have been turned off. The focus has been to put people in the bottom floor, east side, and with portable fans in order to keep it cool. We are using dorms 55 & 56 for this.
- c. Those in quarantine due to contact tracing, who have not yet been tested positive, are being consolidated into dorm 51 (different floor than positives).

**4. On what day did individuals start being isolated?**

We have been isolating people since early March (March 7<sup>th</sup>) when the traveler quarantines from China were expanded to include other countries. The isolation wings were established and started to receive workers needing isolation as far back as March 18/19, 2020.

**5. Are close contacts of confirmed cases being quarantined on site?**

Yes, please see the comments above about the quarantine dorm.

**From:** [XT:Golmohammadi, Dr. Kamran HLTH:IN](#)  
**To:** [XT:HLTH Galanis, Eleni](#); [Bharmal, Aamir Dr. HLTH:IN](#); [XT:Kim, Jong HLTH:IN](#); [XT:Hoyano, Dr Dee HLTH:IN](#); [XT:Harding, John HLTH:IN](#)  
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**Subject:** 26. RE: Update on Kearl Lake  
**Date:** May 1, 2020 1:35:18 PM  
**Attachments:** [image001.png](#)

---

Hello Eleni,

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Sincerely

Kamran

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**Kamran Golmohammadi MD MSc FRCPC**

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---

**From:** Galanis, Eleni [BCCDC] [mailto:Eleni.Galanis@bccdc.ca]

**Sent:** Friday, May 01, 2020 1:20 PM

**To:** Bharmal, Aamir [FH]; Golmohammadi, Dr. Kamran; Kim, Jong [NHA]; Hoyano, Dee (Dr) [VIHA]; Harding, John [VCH]

**Cc:** Naus, Monika [PHSA]; Singal, Mayank [BCCDC]; Treloar, Chelsea [PHSA]; Gustafson, Reka [BCCDC]; Gilbert, Mark [PHSA]; Henry, Bonnie [EXT]

**Subject:** Update on Kearl Lake

**Importance:** High

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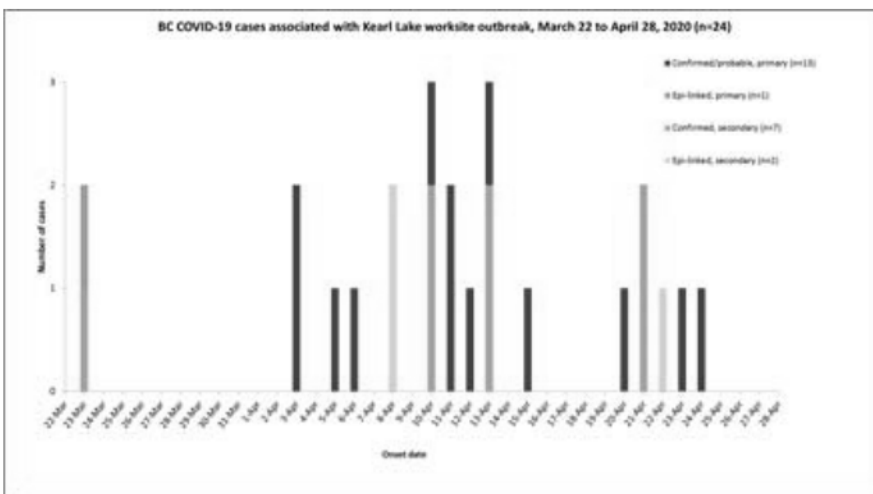
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**Subject:** 27. RE: Update on Kearl Lake  
**Date:** May 1, 2020 1:54:59 PM  
**Attachments:** [image001.png](#)

---

Thanks, Eleni.

I agree with Kamran. Given that we don't have the contact information required, I am supportive of a messaging approach.

John

---

**From:** Golmohammadi, Dr. Kamran [mailto:[Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)]  
**Sent:** Friday, May 01, 2020 1:35 PM  
**To:** Galanis, Eleni [BCCDC]; Bharmal, Aamir [FH]; Kim, Jong [NHA]; Hoyano, Dee (Dr) [VIHA]; Harding, John [VCH]  
**Cc:** Naus, Monika [BCCDC]; Singal, Mayank [BCCDC]; Treloar, Chelsea [BCCDC]; Gustafson, Reka [BCCDC]; Gilbert, Mark [BCCDC]; Henry, Bonnie [EXT]  
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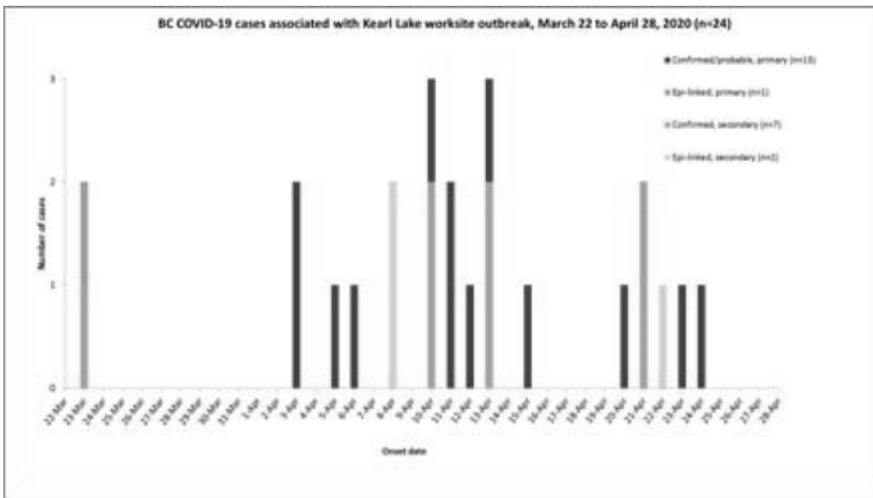
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**Subject:** 28. RE: Update on Kearl Lake  
**Date:** May 1, 2020 2:14:47 PM  
**Attachments:** [image001.png](#)

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Our MHO group would also appreciate a provincial direction on this travel-related self-isolation as there are multiple trips back and forth to this site, so very difficult to track the whereabouts of workers over time.

There is this wording on the BCCDC website- <http://www.bccdc.ca/health-info/diseases-conditions/covid-19/self-isolation>

Is this meant to be a PHO order, and if so, could it also be included on the PHO site where the orders are located, for reference when we are talking to contacts.

Thanks,  
Dee

---

**From:** Harding, John [VCH]  
**Sent:** Friday, May 01, 2020 1:55 PM  
**To:** Golmohammadi, Dr. Kamran [IHA] ; Galanis, Eleni [BCCDC] ; Bharmal, Aamir [FH] ; Kim, Jong [NHA] ; Hoyano, Dee (Dr)  
**Cc:** Naus, Monika [BCCDC] ; Singal, Mayank [BCCDC] ; Treloar, Chelsea [BCCDC] ; Gustafson, Reka [BCCDC] ; Gilbert, Mark [BCCDC] ; Henry, Bonnie [EXT]  
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**Sent:** Friday, May 01, 2020 1:35 PM  
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Sincerely  
Kamran

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**Kamran Golmohammadi MD MSc FRCPC**

Medical Health Officer | Interior Health

Clinical Assistant Professor | School of Population and Public Health, UBC

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Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

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**From:** Galanis, Eleni [BCCDC] [<mailto:Eleni.Galanis@bccdc.ca>]

**Sent:** Friday, May 01, 2020 1:20 PM

**To:** Bharmal, Aamir [FH]; Golmohammadi, Dr. Kamran; Kim, Jong [NHA]; Hoyano, Dee (Dr) [VIHA]; Harding, John [VCH]

**Cc:** Naus, Monika [PHSA]; Singal, Mayank [BCCDC]; Treloar, Chelsea [PHSA]; Gustafson, Reka [BCCDC]; Gilbert, Mark [PHSA]; Henry, Bonnie [EXT]

**Subject:** Update on Kearl Lake

**Importance:** High

Hi all,

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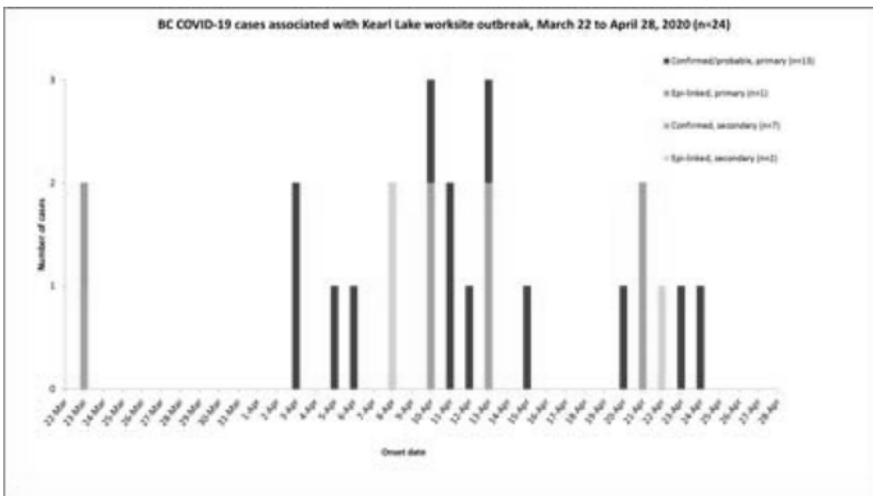
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Physician Epidemiologist, Enteric and Environmental Infections and Communicable Disease Emergencies

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516

**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** [XT:Hoyano, Dr Dee HLTH:IN](#); [XT:Harding, John HLTH:IN](#); [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [Bharmal, Aamir Dr. HLTH:IN](#); [XT:Kim, Jong HLTH:IN](#)  
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**Subject:** 29. RE: Update on Kearl Lake  
**Date:** May 1, 2020 3:21:47 PM  
**Attachments:** [image001.png](#)

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**Sent:** Friday, May 01, 2020 2:15 PM  
**To:** Harding, John [VCH]; Golmohammadi, Dr. Kamran [IHA]; Galanis, Eleni [BCCDC]; Bharmal, Aamir [FH]; Kim, Jong [NHA]  
**Cc:** Naus, Monika [BCCDC]; Singal, Mayank [BCCDC]; Treloar, Chelsea [BCCDC]; Gustafson, Reka [BCCDC]; Gilbert, Mark [BCCDC]; Henry, Bonnie [EXT]  
**Subject:** RE: Update on Kearl Lake

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Is this meant to be a PHO order, and if so, could it also be included on the PHO site where the orders are located, for reference when we are talking to contacts.

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**Subject:** RE: Update on Kearl Lake

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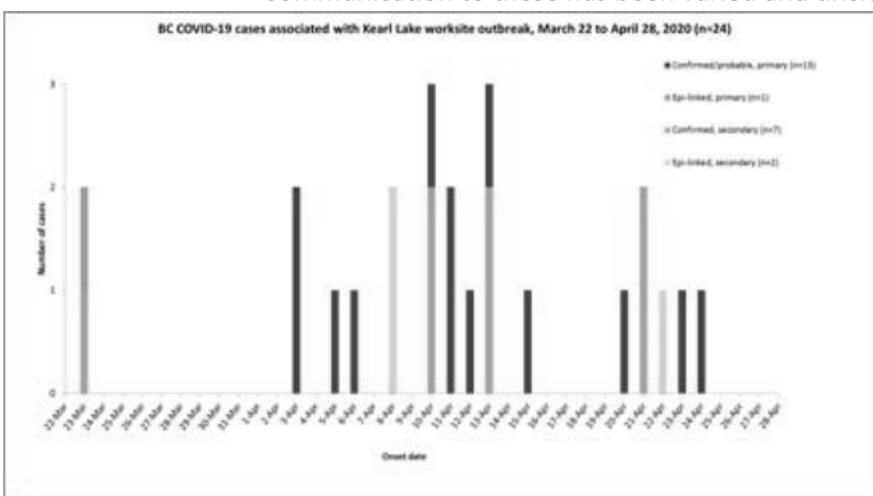
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**From:** Henry, Bonnie HLTH:EX  
**To:** XT:HLTH Galanis, Eleni; XT:Hoyano, Dr Dee HLTH:IN; XT:Harding, John HLTH:IN; XT:Golmohammadi, Dr. Kamran HLTH:IN; Bharmal, Aamir Dr. HLTH:IN; XT:Kim, Jong HLTH:IN  
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**Subject:** 30. RE: Update on Kearl Lake  
**Date:** May 1, 2020 3:24:35 PM  
**Attachments:** image001.png

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*Provincial Health Officer*

*Office of the PHO*

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*British Columbia*

**s.17; s.19**

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**From:** Galanis, Eleni [BCCDC] [mailto:Eleni.Galanis@bccdc.ca]

**Sent:** May 1, 2020 3:22 PM

**To:** XT:Hoyano, Dr Dee HLTH:IN; XT:Harding, John HLTH:IN; XT:Golmohammadi, Dr. Kamran HLTH:IN; Bharmal, Aamir Dr. HLTH:IN; XT:Kim, Jong HLTH:IN

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This means that these workers (several hundred a week) should not have close contact with HH members and **cannot return to work to Kearl Lake for this 14d period.** I do not believe we have been monitoring or enforcing this and this may require some more planning, or an order, as Dee suggests. I will ask to have this discussed at the CMHO mtg tonight. Can you please brief your Chiefs in anticipation of this?

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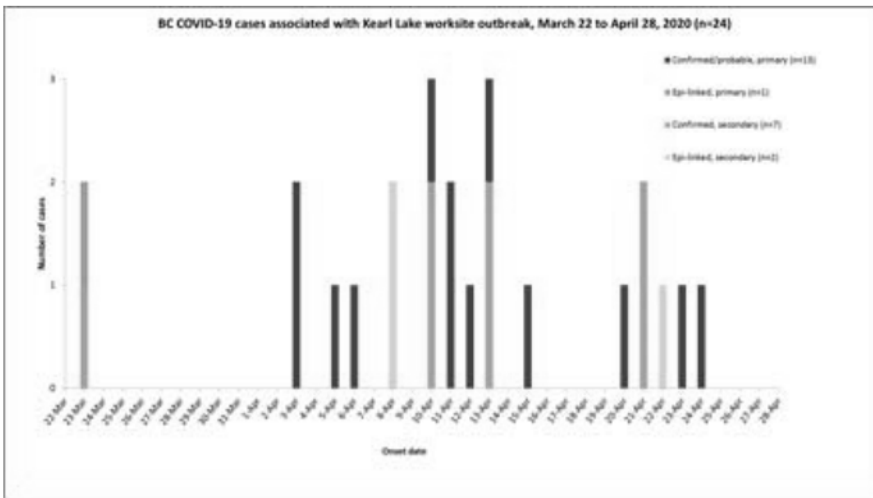
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**Subject:** 31. RE: Update on Kearl Lake  
**Date:** May 1, 2020 4:15:29 PM  
**Attachments:** image001.png

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In addition to Eleni's update, fyi, Alberta Health indicated that Imperial Oil has taken a variety of control measures at the Kearl Lake site.

This information is here:

<https://www.imperialoil.ca/en-CA/Updates/COVID-19/Protecting-our-Kearl-workforce-from-COVID-19>

including photos and two videos at the bottom. See especially 'health screening protocols' but several sections will be of interest.

Thank you,

Monika

.....

Monika Naus MD FRCPC

Medical Director, Communicable Diseases & Immunization Service

Medical Head, Immunization Programs & Vaccine Preventable Diseases

BC Centre for Disease Control

monika.naus@bccdc.ca

Tel 604.707.2540

Cell 604.219.4524

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**From:** Henry, Bonnie HLTH:EX [mailto:Bonnie.Henry@gov.bc.ca]

**Sent:** Friday, May 01, 2020 3:25 PM

**To:** Galanis, Eleni [BCCDC]; Hoyano, Dee (Dr) [VIHA]; Harding, John [VCH]; Golmohammadi, Dr. Kamran [IHA]; Bharmal, Aamir [FH]; Kim, Jong [NHA]

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**Subject:** RE: Update on Kearl Lake

**This message is from an external sender.** Think before you click, if you suspect this message is malicious, forward this message to spam@phsa.ca, and do **NOT** open any attachments or click on any links.

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505 Doyle Avenue, Kelowna, BC V1Y 0C5

Phone: 250-469-7070 Ext: 12789

Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)

Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

---

**From:** Galanis, Eleni [BCCDC] [<mailto:Eleni.Galanis@bccdc.ca>]

**Sent:** Friday, May 01, 2020 1:20 PM

**To:** Bharmal, Aamir [FH]; Golmohammadi, Dr. Kamran; Kim, Jong [NHA]; Hoyano, Dee (Dr) [VIHA]; Harding, John [VCH]

**Cc:** Naus, Monika [PHSA]; Singal, Mayank [BCCDC]; Treloar, Chelsea [PHSA]; Gustafson, Reka [BCCDC]; Gilbert, Mark [PHSA]; Henry, Bonnie [EXT]

**Subject:** Update on Kearl Lake

**Importance:** High

Hi all,

As promised, here is a summary from the 2<sup>nd</sup> national call on the Kearl Lake outbreak which occurred this morning (also see report from AHS attached).

**In summary: The outbreak at Kearl Lake is still active (last onset Apr 26). Increased controls have been implemented as of Apr 16. Cases and contacts who are onsite are being managed onsite. Management of contacts offsite is unclear. Communication/advice to other workers is unclear. BC has not received a list of workers who are considered close contacts; the list we received is not considered a list of close contacts although it may include close contacts. We are still awaiting phone numbers for this list.**

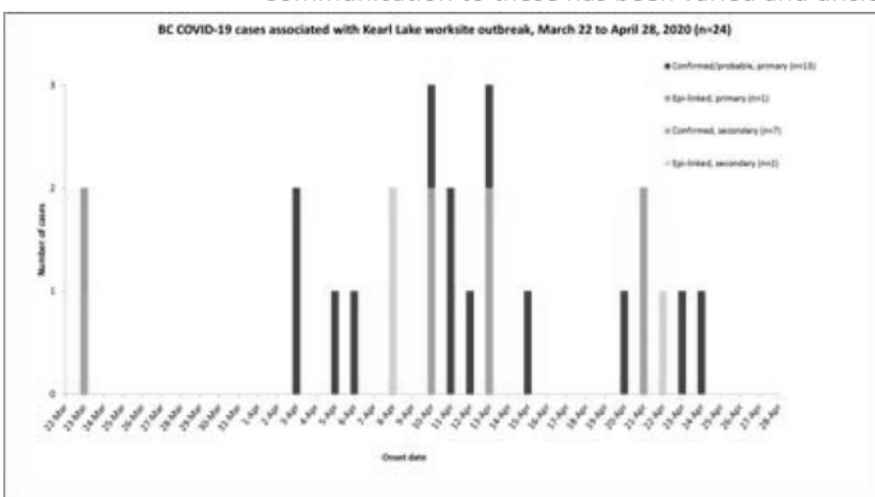
**I don't feel this outbreak is yet under control and I am not confident that close contacts of cases who have left the worksite have been identified and managed. BCCDC will continue to work with AHS and PHAC to obtain further info on this. In the interim, I recommend we re-iterate our public messaging for returned workers to self-monitor and be particularly vigilant if they live with high risk individuals or who individuals who are HCW and report to BC PH if they develop symptoms. If desired, we can setup a mtg to discuss this approach today or tomorrow.**

Details

- Setting

- o 1 work site: during outbreak period ~2400 workers (majority employed by Imperial Oil; about 150 are contractors and sub-contractors)
- o 2 accommodations (hotel-like)

- Outbreak details
  - o 90 primary cases
    - 71 in AB, 13 in BC, 6 in other PTs (see BC epicurve below)
    - Onset range: Mar 18-Apr 26
    - Screening of ~2000 workers identified 28 of these cases, 15 of which were asymptomatic
    - 2 in ICU, no deaths
  - o Outbreak declared to AHS on Apr 14
- Outbreak management
  - o AHS implemented outbreak controls on April 16
    - Controls existing prior to Apr 16
      - Social distancing
      - PPE
      - Temp screening
    - Controls implemented on Apr 16
      - Closed dining room
      - Mass testing
  - o Case mgmt.
    - Cases isolated on-site
  - o Contact mgmt
    - Close contacts were initially being managed by Imperial Oil; since April 16, AHS is now identifying and managing close contacts
    - Contacts identified at worksite are in quarantine in separate space
    - If have left site: unclear if/what communication provided
  - o Communication/advice to other workers
    - Communication to these has been varied and unclear



Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, Enteric and Environmental Infections and Communicable Disease Emergencies

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516

**From:** [XT:HLTH Galanis, Eleni](#)  
**To:** [XT:Hoyano, Dr Dee HLTH:IN](#); [XT:Harding, John HLTH:IN](#); [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [Bharmal, Aamir Dr. HLTH:IN](#); [XT:Kim, Jong HLTH:IN](#)  
**Cc:** [XT:Naus, Monika HLTH:IN](#); [Singal, Mayank \[BCCDC\]](#); [Gustafson, Reka \[BCCDC\]](#); [XT:HLTH Gilbert, Mark](#); [Skowronski, Danuta \[BCCDC\]](#); [Amos, Heather \[BCCDC\]](#); [Henry, Bonnie HLTH:EX](#); [Treloar, Chelsea \[BCCDC\]](#)  
**Subject:** 32. RE: Update on Kearl Lake  
**Date:** May 1, 2020 6:37:44 PM  
**Attachments:** [image001.png](#)

---

Thanks Bonnie, that makes sense.

Just got off the CMHO call where this was discussed. Chiefs were in agreement that we need to take this seriously to avoid further spread in BC. Specifically:

- Bonnie will add messaging in her press briefing tomorrow to clarify that, in BC, returning workers must self-isolate for 14d regardless of what message they got from AB or from their employer. They can return to work at Kearl Lake during this period but when they come back they must self-isolate again. This is a PHO order. (If further public comms are required, BCCDC can address early next week.)
- Agreement that BC will attempt to conduct contact tracing of all returned workers, regardless of whether AB believes they were a close contact or not. BCCDC will continue to try to get this information from AB Health.

Happy weekend,  
Eleni

---

**From:** Henry, Bonnie HLTH:EX [mailto:Bonnie.Henry@gov.bc.ca]  
**Sent:** Friday, May 01, 2020 3:25 PM  
**To:** Galanis, Eleni [BCCDC]; Hoyano, Dee (Dr) [VIHA]; Harding, John [VCH]; Golmohammadi, Dr. Kamran [IHA]; Bharmal, Aamir [FH]; Kim, Jong [NHA]  
**Cc:** Naus, Monika [BCCDC]; Singal, Mayank [BCCDC]; Gustafson, Reka [BCCDC]; Gilbert, Mark [BCCDC]; Skowronski, Danuta [BCCDC]  
**Subject:** RE: Update on Kearl Lake  
**This message is from an external sender.** Think before you click, if you suspect this message is malicious, forward this message to spam@phsa.ca, and do **NOT** open any attachments or click on any links.

---

I am not sure about why we would say they not return to work? Would we not consider them like other essential workers where they self isolate and monitor for symptoms and not take public transit etc. but can return to work (in their own vehicle) where they have the measures in place for distancing etc.

My best,

Bonnie

*Dr Bonnie Henry*

*Provincial Health Officer*

*Office of the PHO*

*Ministry of Health*

*British Columbia*

s.17; s.19

---

**From:** Galanis, Eleni [BCCDC] [mailto:Eleni.Galanis@bccdc.ca]  
**Sent:** May 1, 2020 3:22 PM  
**To:** XT:Hoyano, Dr Dee HLTH:IN; XT:Harding, John HLTH:IN; XT:Golmohammadi, Dr. Kamran HLTH:IN; Bharmal, Aamir Dr. HLTH:IN; XT:Kim, Jong HLTH:IN

**Cc:** XT:Naus, Monika HLTH:IN; Singal, Mayank [BCCDC]; Gustafson, Reka [BCCDC]; XT:HLTH Gilbert, Mark; Henry, Bonnie HLTH:EX; Skowronski, Danuta [BCCDC]

**Subject:** RE: Update on Kears Lake

Hi all,

Given we are currently unable to differentiate the close contacts from other returned workers, we (BCCDC docs) agree with maintaining our current messaging as provided by Bonnie twice in the last 2wks, that **all returned workers from Kears Lake need to self-isolate at home for 14d upon return**. This means that these workers (several hundred a week) should not have close contact with HH members and **s.13**

**s.13**

**s.13** I will ask to have this discussed at the CMHO mtg tonight. Can you please brief your Chiefs in anticipation of this?

Thanks,

Eleni

---

**From:** Hoyano, Dee (Dr) [mailto:Dee.Hoyano@viha.ca]

**Sent:** Friday, May 01, 2020 2:15 PM

**To:** Harding, John [VCH]; Golmohammadi, Dr. Kamran [IHA]; Galanis, Eleni [BCCDC]; Bharmal, Aamir [FH]; Kim, Jong [NHA]

**Cc:** Naus, Monika [BCCDC]; Singal, Mayank [BCCDC]; Treloar, Chelsea [BCCDC]; Gustafson, Reka [BCCDC]; Gilbert, Mark [BCCDC]; Henry, Bonnie [EXT]

**Subject:** RE: Update on Kears Lake

Our MHO group would also appreciate a provincial direction on this travel-related self-isolation as there are multiple trips back and forth to this site, so very difficult to track the whereabouts of workers over time.

There is this wording on the BCCDC website- <http://www.bccdc.ca/health-info/diseases-conditions/covid-19/self-isolation>

Is this meant to be a PHO order, and if so, could it also be included on the PHO site where the orders are located, for reference when we are talking to contacts.

Thanks,

Dee

---

**From:** Harding, John [VCH]

**Sent:** Friday, May 01, 2020 1:55 PM

**To:** Golmohammadi, Dr. Kamran [IHA] ; Galanis, Eleni [BCCDC] ; Bharmal, Aamir [FH] ; Kim, Jong [NHA] ; Hoyano, Dee (Dr)

**Cc:** Naus, Monika [BCCDC] ; Singal, Mayank [BCCDC] ; Treloar, Chelsea [BCCDC] ; Gustafson, Reka [BCCDC] ; Gilbert, Mark [BCCDC] ; Henry, Bonnie [EXT]

**Subject:** RE: Update on Kears Lake

Thanks, Eleni.

I agree with Kamran. Given that we don't have the contact information required, I am supportive of a messaging approach.

John

---

**From:** Golmohammadi, Dr. Kamran [mailto:Kamran.Golmohammadi@interiorhealth.ca]

**Sent:** Friday, May 01, 2020 1:35 PM

**To:** Galanis, Eleni [BCCDC]; Bharmal, Aamir [FH]; Kim, Jong [NHA]; Hoyano, Dee (Dr) [VIHA]; Harding, John [VCH]

**Cc:** Naus, Monika [BCCDC]; Singal, Mayank [BCCDC]; Treloar, Chelsea [BCCDC]; Gustafson, Reka [BCCDC]; Gilbert, Mark [BCCDC]; Henry, Bonnie [EXT]

**Subject:** RE: Update on Kearl Lake

Hello Eleni,

Thank you very much for the information and update. I am supportive of “provincial messaging”. I do not feel a meeting is required if all other MHOs from Health Authorities are supportive of BC CDC or PHO public messaging to remind all workers returning from this Kearl Lake oil sands operation, to self-isolate for 14 days upon their arrival in BC.

Sincerely

Kamran

**I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional, and unceded territory of the Syilx Nation.**

**Kamran Golmohammadi MD MSc FRCPC**

Medical Health Officer | Interior Health

Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5

Phone: 250-469-7070 Ext: 12789

Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)

Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

---

**From:** Galanis, Eleni [BCCDC] [<mailto:Eleni.Galanis@bccdc.ca>]

**Sent:** Friday, May 01, 2020 1:20 PM

**To:** Bharmal, Aamir [FH]; Golmohammadi, Dr. Kamran; Kim, Jong [NHA]; Hoyano, Dee (Dr) [VIHA]; Harding, John [VCH]

**Cc:** Naus, Monika [PHSA]; Singal, Mayank [BCCDC]; Treloar, Chelsea [PHSA]; Gustafson, Reka [BCCDC]; Gilbert, Mark [PHSA]; Henry, Bonnie [EXT]

**Subject:** Update on Kearl Lake

**Importance:** High

Hi all,

As promised, here is a summary from the 2<sup>nd</sup> national call on the Kearl Lake outbreak which occurred this morning (also see report from AHS attached).

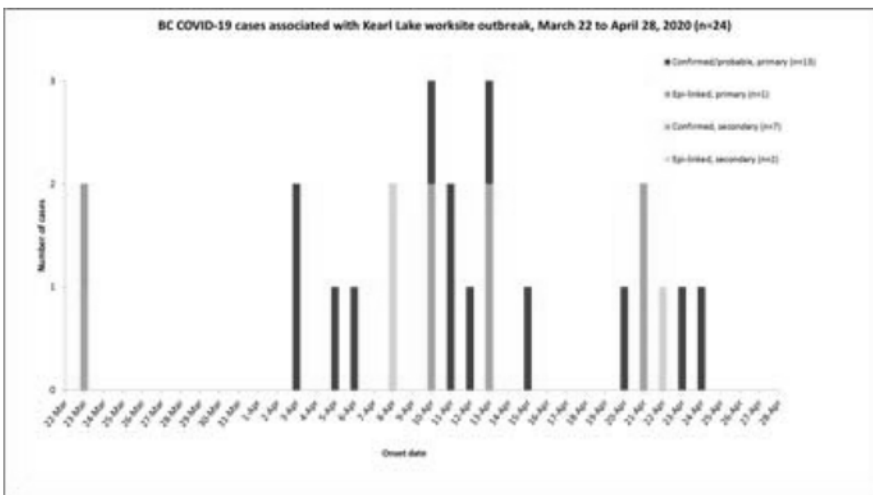
**In summary: The outbreak at Kearl Lake is still active (last onset Apr 26). Increased controls have been implemented as of Apr 16. Cases and contacts who are onsite are being managed onsite. Management of contacts offsite is unclear. Communication/advice to other workers is unclear. BC has not received a list of workers who are considered close contacts; the list we received is not considered a list of close contacts although it may include close contacts. We are still awaiting phone numbers for this list.**

**I don't feel this outbreak is yet under control and I am not confident that close contacts of cases who have left the worksite have been identified and managed. BCCDC will continue to work with AHS and PHAC to obtain further info on this. In the interim, I recommend we re-iterate our public messaging for returned workers to self-monitor and be particularly vigilant if they live with high risk individuals or who individuals who are HCW and report to BC PH if they develop symptoms. If desired, we can setup a mtg to discuss this approach today or tomorrow.**

Details

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- Outbreak details

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Eleni Galanis, MD, MPH, FRCPC

Physician Epidemiologist, Enteric and Environmental Infections and Communicable Disease Emergencies

BC Centre for Disease Control 655 W12th Ave. Vancouver BC V5Z 4R4

(t) 604-707-2558 (f) 604-707-2516

**From:** [XT:Kim, Jong HLTH:IN](#)  
**To:** [XT:Mema, Dr. Silvina HLTH:IN](#); [XT:HLTH Gilbert, Mark](#)  
**Cc:** [XT:Hoyano, Dr Dee HLTH:IN](#); [XT:Harding, John HLTH:IN](#); [XT:Golmohammadi, Dr. Kamran HLTH:IN](#); [Bharmal, Aamir Dr. HLTH:IN](#); [XT:Naus, Monika HLTH:IN](#); [XT:HLTH Galanis, Eleni](#); [MHO and CD Nurse On Call \[VCH\]](#); [CDPHNs \[FH\]](#); [VIHA CD Unit](#); [CD Unit](#); [Central CD HUB](#); [Covid \[BCCDC\]](#); [Gustafson, Reka \[BCCDC\]](#); [Henry, Bonnie HLTH:EX](#); [Arkles Schwandt, Jillian](#); [Rajsic, Christina \[BCCDC\]](#)  
**Subject:** 33. Re: Update on Kearl Lake  
**Date:** May 3, 2020 3:46:53 PM

---

Thanks Mark. NH supports the approach too.

Jong

---

Sent from [Workspace ONE Boxer](#)

On May 3, 2020 at 12:29:45 PM MST, Mema, Dr. Silvina wrote:

IH supports your proposed approach Mark, thank you.

Silvina

Sent from my iPhone

On May 3, 2020, at 11:10 AM, Gilbert, Mark [BCCDC] wrote:

Hi everyone,

Last evening we received further information from Alberta Health regarding contact information for Kearl Lake workers. The contact information for the original lists already received by BC is pending still. However, they have provided an additional list of ~70 visitors and miscellaneous individuals onsite between March 10 and April 21 (highlighted below) which includes names and telephone numbers but no city/residence information.

Given we don't know in which HA these individuals reside, one option we're proposing would be for the BCCDC surge line to contact these individuals tomorrow (not staffed today). Can you let us know if you have any questions/concerns about this process.

Thanks

Mark

(on call)

---

Hello,

We have been receiving improved contact information for Kearl Lake workers from the companies involved, and are working to get these improved lists out to the jurisdictions as soon as possible. To clarify, these requested lists are of ALL individuals who were on site at Kearl Lake

from March 10 to April 21 inclusive – **the names on these lists are not all individuals who have necessarily been identified to be a case or a close contact.** These lists are being provided to the jurisdictions for what they consider to be necessary follow-up, at their discretion.

An outbreak report with data as of yesterday (May 1, 2020) has been attached to this email for your information.

There are three separate lists that have been requested:

1) **1. For the original lists of workers from Imperial Oil (sent out on April 23<sup>rd</sup>):** We requested the inclusion of contact information for the individuals on these original lists. While we have received some information, there were also errors in the lists that one company provided. We have sent these lists back to the company and are waiting to receive more accurate contact information. These improved lists will be forwarded on in the coming days once received.

2)

3) **2. Lists of all individuals at the Wapasu and Northsands lodges from Civeo:** These contain names of individuals who may not have been on the original lists from Imperial Oil. As there is considerable processing required to get these lists into an easily useable format, we have reached out to PHAC for help in processing these in a timely fashion. We hope to be able to send these out to the jurisdictions by the end of the day tomorrow.

4)

3) **3. Visitor lists and other miscellaneous individuals who were on site between March 10 and April 21:** These contain names of individuals who may not have been on the original lists from Imperial Oil. We have received and cleaned these lists from both Civeo and Imperial Oil, and the list of individuals identified as being from your jurisdiction are attached to this email. There are three tabs – one contains information on individuals to whom parking passes were issued by Civeo, one contains individuals from a visitor list provided by Imperial Oil, and one contains names of individuals who were on site for service and chemical deliveries.

Password to follow.

Please let me know if you have any questions.

Thank you,

Elaine

**Elaine Chan, MPH, CPH**

Public Health Officer – Epidemiologist

Public Health Agency of Canada (PHAC)

Analytics and Performance Reporting Branch

Alberta Health

23<sup>rd</sup> Floor, 10025 Jasper Avenue | Edmonton, AB | T5J 1S6

Office: (780) 415-2814

Cell: s.16

Email: [elaine.chan@gov.ab.ca](mailto:elaine.chan@gov.ab.ca)

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**From:** [Deena Hinshaw](#)  
**To:** [Henry, Bonnie HLTH:EX](#)  
**Cc:** [Dorothy Roberts](#)  
**Subject:** 34. RE: Kearle Lake  
**Date:** May 5, 2020 7:51:49 PM

---

I will check with the team – my info came from the dashboard, so I will double check to see if it was correct.

Deena

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16 , Cell Phone: s.16

---

**From:** Henry, Bonnie HLTH:EX  
**Sent:** Tuesday, May 05, 2020 8:50 PM  
**To:** Deena Hinshaw  
**Cc:** Dorothy Roberts  
**Subject:** RE: Kearle Lake

Thanks, I know it has been a challenging one and we continue to have issues here in BC. I thought I had seen a case from May 2<sup>nd</sup> reported on CNPHI so that is why I asked the question.

My best,

Bonnie

*Dr Bonnie Henry*

*Provincial Health Officer*

*Office of the PHO*

*Ministry of Health*

*British Columbia*

s.17; s.19

---

**From:** Deena Hinshaw [<mailto:Deena.Hinshaw@gov.ab.ca>]  
**Sent:** May 5, 2020 12:40 PM  
**To:** Henry, Bonnie HLTH:EX  
**Cc:** Dorothy Roberts  
**Subject:** Kearle Lake

Bonnie,

I understand you asked for a Kearle Lake update – we have had no new cases for several days. Last onset of symptoms in the most recent case was April 27.

Does this help?

Thanks,

Deena

---

Dr. Deena Hinshaw

Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of  
Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16                      Cell Phone: s.16

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**From:** [Deena Hinshaw](#)  
**To:** [Henry, Bonnie HLTH:EX](#)  
**Subject:** 35. FW: Kearle Lake  
**Date:** May 5, 2020 10:27:39 PM

---

FYI

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of  
Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16; s.19      Cell Phone: s.16; s.19

---

**From:** Elaine Chan  
**Sent:** Tuesday, May 05, 2020 10:50 PM  
**To:** Deena Hinshaw  
**Cc:** Marcia Johnson  
**Subject:** RE: Kearle Lake

Hi Deena,

That last case was reported to us on May 2, but the symptom onset date for the individual was April 27<sup>th</sup>.

As of today at 12pm, April 27<sup>th</sup> was our latest symptom onset date.

I just took a look in CDOM though, and I see one new lab-confirmed case with an onset date of May 1<sup>st</sup>.

I usually wait for Angela Jacobs at AHS to confirm the investigation is complete before adding it to my reporting. She will likely give an update on this case in the morning.

From CDOM, looks like he arrived at Kearle Lake on either April 15 or April 17 (currently has two different dates in different places – will ask Angela to confirm). AHS was involved on site and outbreak control measures put in place on April 16<sup>th</sup> (though on some internal calls, I have also heard AHS say that April 16<sup>th</sup> was when they began implementing their control measures, but April 19<sup>th</sup> or so was when everything was really well established).

In any case, the status of the outbreak is ongoing.

Thanks,

Elaine

---

**From:** Deena Hinshaw <[Deena.Hinshaw@gov.ab.ca](mailto:Deena.Hinshaw@gov.ab.ca)>  
**Sent:** Tuesday, May 5, 2020 8:53 PM  
**To:** Elaine Chan <[Elaine.Chan@gov.ab.ca](mailto:Elaine.Chan@gov.ab.ca)>  
**Cc:** Marcia Johnson <[Marcia.Johnson@gov.ab.ca](mailto:Marcia.Johnson@gov.ab.ca)>  
**Subject:** FW: Kearle Lake

Elaine,

I looked at the epi curve and thought that the onset of the last case was April 27, but Bonnie noted a case that was reported on May 2 – can you let me know what the status of the outbreak is?

Thanks,

Deena

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of  
Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16                      Cell Phone: s.16

---

**From:** Henry, Bonnie HLTH:EX <[Bonnie.Henry@gov.bc.ca](mailto:Bonnie.Henry@gov.bc.ca)>

**Sent:** Tuesday, May 05, 2020 8:50 PM

**To:** Deena Hinshaw <[Deena.Hinshaw@gov.ab.ca](mailto:Deena.Hinshaw@gov.ab.ca)>

**Cc:** Dorothy Roberts <[Dorothy.Roberts@gov.ab.ca](mailto:Dorothy.Roberts@gov.ab.ca)>

**Subject:** RE: Kearle Lake

Thanks, I know it has been a challenging one and we continue to have issues here in BC. I thought I had seen a case from May 2<sup>nd</sup> reported on CNPHI so that is why I asked the question.

My best,

Bonnie

*Dr Bonnie Henry*

*Provincial Health Officer*

*Office of the PHO*

*Ministry of Health*

*British Columbia*

s.17; s.19

---

**From:** Deena Hinshaw [<mailto:Deena.Hinshaw@gov.ab.ca>]

**Sent:** May 5, 2020 12:40 PM

**To:** Henry, Bonnie HLTH:EX

**Cc:** Dorothy Roberts

**Subject:** Kearle Lake

Bonnie,

I understand you asked for a Kearle Lake update – we have had no new cases for several days. Last onset of symptoms in the most recent case was April 27.

Does this help?

Thanks,

Deena

---

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Chief Medical Officer of Health, Alberta Health  
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## Sullivan, Michelle A HLTH:EX

---

**From:** Pollock, Dr. Sue <Sue.Pollock@interiorhealth.ca>  
**Sent:** April 26, 2020 8:27 PM  
**To:** Emerson, Brian P HLTH:EX  
**Cc:** XT:Mema, Dr. Silvina HLTH:IN  
**Subject:** Fwd: PHO verbal order for Kearl Lake, April 20th

Hi Brian

We didn't draft our own Order, just transcribed Bonnie's verbal Order, see below.

We MHOs are very supportive of a written PHO order!

Thank you

Sue

Sent from my iPhone

Begin forwarded message:

**From:** "Tsang, Dr. Conrad" <Conrad.Tsang@interiorhealth.ca>  
**Date:** April 21, 2020 at 12:40:42 PM PDT  
**To:** "Pollock, Dr. Sue" <Sue.Pollock@interiorhealth.ca>, "Mema, Dr. Silvina" <Silvina.Mema@interiorhealth.ca>, "Goodison, Karin" <Karin.Goodison@interiorhealth.ca>, "Golmohammadi, Dr. Kamran" <Kamran.Golmohammadi@interiorhealth.ca>, "Parker, Dr. Robert" <Robert.Parker@interiorhealth.ca>, "Fenton, Carol" <Carol.Fenton@interiorhealth.ca>, "Stajduhar, Linda" <Linda.Stajduhar@interiorhealth.ca>  
**Subject:** PHO verbal order for Kearl Lake, April 20th

Hi everyone,

I watched yesterday's video again and transcribed the verbal order section:

"

I am ordering anybody who has been in the Kearl Lake project since March 15<sup>th</sup> and has returned to British Columbia that they must self-isolate for 14 days after their return. For many people this will mean their return was over 14 days ago. If they had symptoms during that period of time, or they continue to have symptoms, we want you to connect with 8-1-1 and tell us about that. As well, anyone who has returned in the past 2 weeks must continue to self-isolate until the incubation period has passed. And if you do develop any symptoms, then again to call 8-1-1, to call your healthcare provider or your local public health office, so that we can have you assessed and tested if need be. We recognize as well that some people who were in Alberta and have returned and had some illness, may have family members who are now suffering from some illness related to COVID-19. If that is the case, then we again would like you to call 8-1-1 so that we can assist you in being assessed and understanding if this indeed is COVID-19.

"

Hope that helps!

Conrad Tsang MD MPH MSc CCFP

← News

IMI Update

Apr. 20, 2020

Latest status:

- Confirmed active on-site cases: 4 (no change)
- Confirmed active off-site cases: 17

Alberta, BC and Saskatchewan

Copyright

**Sullivan, Michelle A HLTH:EX**

---

**From:** Thompson, Laurel HLTH:EX  
**Sent:** April 20, 2020 4:15 PM  
**To:** Emerson, Brian P HLTH:EX  
**Subject:** Kearl email to staff  
**Attachments:** IMG\_8098.JPG

Laurel Thompson | Executive Coordinator  
Office of the Provincial Health Officer, Ministry of Health

## Sullivan, Michelle A HLTH:EX

---

**From:** Covid [BCCDC] <covid@bccdc.ca>  
**Sent:** April 25, 2020 2:52 PM  
**To:** Henry, Bonnie HLTH:EX  
**Subject:** Kearl Lake Camp - MHOs want a T/C can you attend?

Hi Bonnie

I would like to arrange a T/C with the on call MHOs to make decisions re next steps regarding following up the workers at Kearl Lake did you wish to provide input/attend

In BC, the onset of the first case was Mar 23 so we will use **Mar 23-Apr 16** as the at-risk period but have >750 workers to contact.

Thanks  
Jane

---

**From:** Kim, Jong [mailto:Jong.Kim@northernhealth.ca]  
**Sent:** Saturday, April 25, 2020 2:36 PM  
**To:** Golmohammadi, Dr. Kamran [IHA]; Covid [BCCDC]  
**Cc:** Galanis, Eleni [BCCDC]; Henry, Bonnie [EXT]; Fyfe, Murray W. (Dr) [VIHA]; Stanwick, Richard (Dr) [VIHA]; Padhi, Shovita [FH]; Bharmal, Aamir [FH]; Harding, John [VCH]  
**Subject:** Re: Kearl Lake Camp

I'd appreciate group discussion, and maybe invite someone from Alberta too.

NH team have started to contact some of the workers on the list. And we found that many of them have already returned to the camp.

They were not given any instruction to self isolate and have been travelling back and forth. Given the flight information, we NH is expecting most of the workers in our list are back in the camp.

I am unclear how to proceed - are there multiple group of workers at different risk included in the list, and there are different recommendation for them?

Jong

---

**From:** Golmohammadi, Dr. Kamran [mailto:Kamran.Golmohammadi@interiorhealth.ca]  
**Sent:** Saturday, April 25, 2020 2:28 PM  
**To:** Buxton, Jane [BCCDC]  
**Cc:** Galanis, Eleni [BCCDC]; Covid [BCCDC]; Henry, Bonnie [EXT]; Fyfe, Murray W. (Dr) [VIHA]; Stanwick, Richard (Dr) [VIHA]; Padhi, Shovita [FH]; Bharmal, Aamir [FH]; Harding, John [VCH]; Kim, Jong [NHA]  
**Subject:** RE: Kearl Lake Camp

Hi Jane,

Thank you very much for the information. To ensure we are applying a consistent approach in follow-up of BC Kearl Lake workers, today I had the opportunity to speak with John Harding (VCH), Victoria Lee (Covering MHO on-call for Fraser Health), Jong Kim and Raina Fumerton (NH), and Murray Fyfe (Island Health).

Our team at Interior Health is still exploring how to manage the list of more than 400 workers given our limited resources.

Sincerely  
Kamran

I respectfully and gratefully acknowledge that my workplace is within the ancestral, traditional, and unceded territory of the Syilx Nation.

**Kamran Golmohammadi MD MSc FRCPC**  
Medical Health Officer | Interior Health  
Clinical Assistant Professor | School of Population and Public Health, UBC

505 Doyle Avenue, Kelowna, BC V1Y 0C5  
Phone: 250-469-7070 Ext: 12789  
Email: [Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)  
Web: <https://www.interiorhealth.ca/AboutUs/Leadership/MHO/Pages/default.aspx>

---

**From:** Buxton, Jane [BCCDC] [mailto:Jane.Buxton@bccdc.ca]  
**Sent:** Saturday, April 25, 2020 11:15 AM  
**To:** Fyfe, Murray W. (Dr) [VIHA]; Henry, Bonnie [EXT]; Stanwick, Richard (Dr) [VIHA]; Golmohammadi, Dr. Kamran; Bharmal, Aamir [FH]; Padhi, Shovita [FH]  
**Cc:** Galanis, Eleni [PHSA]; Covid [BCCDC]  
**Subject:** Kearl Lake Camp

Hi everyone,  
I am following up regarding the Kearl Lake Oil camp xls lists that were sent to each of the HAs yesterday, as there seems to be some confusion and we can come to a mutual understanding of the next steps.

The list we received is of workers for the Imperial Oil Kearl Lake Camp in northern Alberta who were there between **March 10 and April 21**

- AB recommendation is that anyone was at the camp between **March 29 and April 16** be quarantined and monitor for symptoms, and if symptomatic, reach out to their local 811 for further information.

On April 16 Imperial Oil told workers with own vehicles told to leave and to self-quarantine on return home.  
Those unable to leave were quarantined at the camp  
Bonnie reinforced the message re self-quarantine in a news briefing

- The lists include dates prior to March 29 to cover the incubation period of the individual diagnosed in Alberta.
- Full contact information was not provided by the company and will not be sought by Alberta.
- Full information on a number of individuals (including municipality in which they live) is not available as some work as outside contractors and would have to be approached separately for confidential individual information.
- Some discrepancies between town and province have been noted and highlighted (further discrepancies may exist).

My (Jane's) understanding is as cases were identified in Interior- these individuals were in self quarantine and some 2nd spread to household cases  
Kamran requested names of all who had worked at Kearl Lake as IH wished to follow up.

The list was received at BCCDC and staff reviewed the client registry to identify HA of residence which is as follows.

Here are the numbers by HA:

Fraser = 39

Interior= 406

Northern = 22

V. Coastal = 31

V. Island =168

No match + outside BC = 88

Total = 754

I don't believe the chiefs are meeting today but happy to coordinate a call as needed

Thanks

Jane

---

**From:** Galanis, Eleni [BCCDC] <[Eleni.Galanis@bccdc.ca](mailto:Eleni.Galanis@bccdc.ca)>

**Sent:** Friday, April 24, 2020 4:02 PM

**To:** Golmohammadi, Dr. Kamran [IHA] <[Kamran.Golmohammadi@interiorhealth.ca](mailto:Kamran.Golmohammadi@interiorhealth.ca)>; Fenton, Carol <[Carol.Fenton@interiorhealth.ca](mailto:Carol.Fenton@interiorhealth.ca)>; Harding, John [VCH] <[John.Harding@vch.ca](mailto:John.Harding@vch.ca)>; Kling, Rakel [NHA] <[Rakel.Kling@northernhealth.ca](mailto:Rakel.Kling@northernhealth.ca)>; Hoyano, Dee (Dr) [VIHA] <[Dee.Hoyano@viha.ca](mailto:Dee.Hoyano@viha.ca)>; Bharmal, Aamir [FH] <[aamir.bharmal@fraserhealth.ca](mailto:aamir.bharmal@fraserhealth.ca)>

**Cc:** Buxton, Jane [BCCDC] <[Jane.Buxton@bccdc.ca](mailto:Jane.Buxton@bccdc.ca)>; Naus, Monika [BCCDC] <[Monika.Naus@bccdc.ca](mailto:Monika.Naus@bccdc.ca)>; Chilton, Katharine [BCCDC] <[Katharine.Chilton@bccdc.ca](mailto:Katharine.Chilton@bccdc.ca)>; Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>; Gustafson, Reka [BCCDC] <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; Singal, Mayank [BCCDC] <[mayank.singal@bccdc.ca](mailto:mayank.singal@bccdc.ca)>; Skowronski, Danuta [BCCDC] <[Danuta.Skowronski@bccdc.ca](mailto:Danuta.Skowronski@bccdc.ca)>; Treloar, Chelsea [BCCDC] <[Chelsea.Treloar@bccdc.ca](mailto:Chelsea.Treloar@bccdc.ca)>

**Subject:** BC residents exposed to AB Kearn Lake outbreak

Hello all,

Imperial Oil Kearn Lake Camp in northern Alberta has been experiencing a COVID outbreak among workers. The outbreak is being managed by the employer. Workers who had a private vehicle were allowed to return home; those who did not are being quarantined on site. IHA has identified at least 8 confirmed cases among returned workers and NHA has identified 1.

At BC's request, BCCDC received from Alberta Health a list of BC workers who were at the Camp between March 10 and April 21. The list of 757 names came without addresses and we are in the process of assigning these to their HA of residence. AH recommendation is that anyone who was at the camp between March 29 and April 16 (between onset of first case in AB and implementation of control measures) be quarantined and monitored for symptoms. In BC, the onset of the first case was Mar 23 so I recommend we use **Mar 23-Apr 16** as the at-risk period.

Once these lists are ready later today, we will be sending them to each HA for your assessment/management. I am aware that IHA will be contacting each of these returned workers to assess their symptoms and determine management. If a coordinated approach to manage these is desired, I encourage you to discuss this at the CMHO mtg tonight.

AH is also working to obtain a list of Imperial Oil employees who may reside in BC but have been quarantined at Kearn Lake during this same period. We will share this when we get it.

Eleni

Eleni Galanis, MD, MPH, FRCPC  
Physician Epidemiologist, BCCDC EOC Director

**Sullivan, Michelle A HLTH:EX**

---

**From:** Emerson, Brian P HLTH:EX  
**Sent:** April 26, 2020 6:27 PM  
**To:** 'Mema, Dr. Silvina'  
**Cc:** Pollock, Sue  
**Subject:** Kearl Lake Order

Hi Silvina.

At the CMHO meeting last week you mentioned drafting an order based on Bonnie's oral order made at the press conference.

Please send that to me. I understand people from Kearl Lake are coming back to various locations so we could issue on PHO letterhead.

Thanks.

Brian

Dr. Brian P. Emerson, Deputy Provincial Health Officer (acting)  
BC Ministry of Health, PO Box 9648 Stn Prov Govt, Victoria, BC V8W 9P1  
T 250.952.1701 C<sup>s.17</sup> F. 250.952. 1713 [brian.emerson@gov.bc.ca](mailto:brian.emerson@gov.bc.ca)

## Sullivan, Michelle A HLTH:EX

---

**From:** Fumerton, Raina <Raina.Fumerton@northernhealth.ca>  
**Sent:** April 24, 2020 3:51 PM  
**To:** 'Gustafson, Reka [BCCDC]'; 'Deena Hinshaw'; Chapman, Ronald; Lanenga, Karien; XT:Kim, Jong HLTH:IN  
**Cc:** Henry, Bonnie HLTH:EX; Corneil, Trevor HLTH:EX; Emerson, Brian P HLTH:EX  
**Subject:** RE: Notification returning workers to BC from industrial camp in Alberta

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Resending as I had the wrong email for Deena.

Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
Acting Chief Medical Health Officer  
Northern Health  
Raina.Fumerton@northernhealth.ca  
250-631-4261

---

**From:** Fumerton, Raina  
**Sent:** Friday, April 24, 2020 3:41 PM  
**To:** 'Gustafson, Reka [BCCDC]'; Deen Hinshaw; Chapman, Ronald; Lanenga, Karien; Kim, Jong  
**Cc:** Henry, Bonnie [EXT]; Corneil, Trevor [EX]; Emerson, Brian [EXT]  
**Subject:** RE: Notification returning workers to BC from industrial camp in Alberta

Thanks so much – the physicians in one of our northern communities are quite concerned – really appreciate you looking into this Deena!

Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
Acting Chief Medical Health Officer  
Northern Health  
[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)  
250-631-4261

---

**From:** Gustafson, Reka [BCCDC] [<mailto:reka.gustafson@phsa.ca>]  
**Sent:** Friday, April 24, 2020 12:08 PM  
**To:** Fumerton, Raina <[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)>; Deen Hinshaw <[deena.hinshaw@gov.bc.ca](mailto:deena.hinshaw@gov.bc.ca)>  
**Cc:** Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>; Corneil, Trevor [EX] <[Trevor.Corneil@gov.bc.ca](mailto:Trevor.Corneil@gov.bc.ca)>; Emerson, Brian [EXT] <[Brian.Emerson@gov.bc.ca](mailto:Brian.Emerson@gov.bc.ca)>  
**Subject:** Re: Notification returning workers to BC from industrial camp in Alberta

Hi Raina,

I have just spoken with Dr. Deena Hinshaw, who is copied here. She will look into the question.

Many thanks Deena.

My best,

Reka

Sent from my iPhone

On Apr 24, 2020, at 11:55 AM, Fumerton, Raina <[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)> wrote:

Hi Everyone,

Not sure how accurate this is so wanted to check in ... Is Kearl lake camp actually sending 1000 people home imminently?

Thanks,  
Raina

Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
Acting Chief Medical Health Officer  
Northern Health  
[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)  
250-631-4261

**From:** Chapman, Ronald  
**Sent:** Friday, April 24, 2020 11:41 AM  
**To:** Central CD HUB <[CentralCDHUB@northernhealth.ca](mailto:CentralCDHUB@northernhealth.ca)>  
**Cc:** Kling, Rakel <[Rakel.Kling@northernhealth.ca](mailto:Rakel.Kling@northernhealth.ca)>; Kim, Jong <[Jong.Kim@northernhealth.ca](mailto:Jong.Kim@northernhealth.ca)>; Fumerton, Raina <[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)>; Gray, Andrew <[Andrew.Gray@northernhealth.ca](mailto:Andrew.Gray@northernhealth.ca)>; Ramsingh, Rosemarie <[Rosemarie.Ramsingh@northernhealth.ca](mailto:Rosemarie.Ramsingh@northernhealth.ca)>  
**Subject:** Notification returning workers to BC from industrial camp in Alberta

Hi CD Team

Dr Harry Keyter (Cell: <sup>s.22</sup> Clinic 250-5664893) from the Valemount Diagnostic Clinic phoned and said they were informed that there was a Covid-19 outbreak at the Kearl Industrial Camp (40 km north of Ft McMurry) in Alberta and that they are sending a 1000 workers home and that some of those workers will be returning to Valemount. He did not have a list of names of the returning workers.

The outbreak was reported on the 16 April and it appears, they have not been able to control the infection and sending the workers home.

When the outbreak was reported in Alberta  
<https://www.theglobeandmail.com/canada/alberta/article-coronavirus-outbreak-hits-albertas-kearl-lake-oil-sands-camp/>

Keep well

---

Dr Ronald Chapman MD FRCPC MBBCH MMed

VP Medicine

Sent from Workspace ONE Boxer

## Sullivan, Michelle A HLTH:EX

---

**From:** Chapman, Ronald <Ronald.Chapman@northernhealth.ca>  
**Sent:** April 26, 2020 10:30 AM  
**To:** Deena Hinshaw; XT:Fumerton, Raina HLTH:IN; Gustafson, Reka [BCCDC]; Lanenga, Karien; XT:Kim, Jong HLTH:IN  
**Cc:** Henry, Bonnie HLTH:EX; Corneil, Trevor HLTH:EX; Emerson, Brian P HLTH:EX; Marcia Johnson; Elaine Chan; Health CD M  
**Subject:** RE: Notification returning workers to BC from industrial camp in Alberta

Thank you Deena. Good to know. The initial information we received was not clear.

Keep well

---

Dr Ronald Chapman MD FRCPC MBBCH MMed  
VP Medicine  
Northern Health  
Sent from [Workspace ONE Boxer](#)

On April 26, 2020 at 10:07:44 AM PDT, Deena Hinshaw <Deena.Hinshaw@gov.ab.ca> wrote:

The local MOH has provided the following information:

Workers are not being sent home. There are some project and rotation changes but nothing specific to infection. There have been no intentional layoffs related to the COvId situation.

I hope that helps – let me know if you need anything further.

Thanks,

Deena

---

Dr. Deena Hinshaw  
Chief Medical Officer of Health, Alberta Health  
Associate Clinical Professor, Department of Medicine, University of Alberta  
Clinical Assistant Professor, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary  
24th Floor, ATB Place North Tower  
10025 Jasper Avenue | Edmonton, Alberta T5J 1S6  
Office: s.16                      Cell Phone: s.16

---

**From:** Fumerton, Raina <Raina.Fumerton@northernhealth.ca>  
**Sent:** Friday, April 24, 2020 4:51 PM  
**To:** 'Gustafson, Reka [BCCDC]' <reka.gustafson@phsa.ca>; Deena Hinshaw <Deena.Hinshaw@gov.ab.ca>; Chapman, Ronald <Ronald.Chapman@northernhealth.ca>; Lanenga, Karien <Karien.Lanenga@northernhealth.ca>; Kim, Jong <Jong.Kim@northernhealth.ca>  
**Cc:** 'Henry, Bonnie [EXT]' <bonnie.henry@gov.bc.ca>; 'Corneil, Trevor [EX]' <Trevor.Corneil@gov.bc.ca>;

'Emerson, Brian [EXT]' <Brian.Emerson@gov.bc.ca>

**Subject:** RE: Notification returning workers to BC from industrial camp in Alberta

Resending as I had the wrong email for Deena.

Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
Acting Chief Medical Health Officer  
Northern Health  
[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)  
250-631-4261

**From:** Fumerton, Raina

**Sent:** Friday, April 24, 2020 3:41 PM

**To:** 'Gustafson, Reka [BCCDC]' <[reka.gustafson@phsa.ca](mailto:reka.gustafson@phsa.ca)>; Deen Hinshaw <[deena.hinshaw@gov.bc.ca](mailto:deena.hinshaw@gov.bc.ca)>;

Chapman, Ronald <[Ronald.Chapman@northernhealth.ca](mailto:Ronald.Chapman@northernhealth.ca)>; Lanenga, Karien

<[Karien.Lanenga@northernhealth.ca](mailto:Karien.Lanenga@northernhealth.ca)>; Kim, Jong <[Jong.Kim@northernhealth.ca](mailto:Jong.Kim@northernhealth.ca)>

**Cc:** Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>; Corneil, Trevor [EX] <[Trevor.Corneil@gov.bc.ca](mailto:Trevor.Corneil@gov.bc.ca)>; Emerson, Brian [EXT] <[Brian.Emerson@gov.bc.ca](mailto:Brian.Emerson@gov.bc.ca)>

**Subject:** RE: Notification returning workers to BC from industrial camp in Alberta

Thanks so much – the physicians in one of our northern communities are quite concerned – really appreciate you looking into this Deena!

Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
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**Sent:** Friday, April 24, 2020 12:08 PM

**To:** Fumerton, Raina <[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)>; Deen Hinshaw <[deena.hinshaw@gov.bc.ca](mailto:deena.hinshaw@gov.bc.ca)>

**Cc:** Henry, Bonnie [EXT] <[bonnie.henry@gov.bc.ca](mailto:bonnie.henry@gov.bc.ca)>; Corneil, Trevor [EX] <[Trevor.Corneil@gov.bc.ca](mailto:Trevor.Corneil@gov.bc.ca)>; Emerson, Brian [EXT] <[Brian.Emerson@gov.bc.ca](mailto:Brian.Emerson@gov.bc.ca)>

**Subject:** Re: Notification returning workers to BC from industrial camp in Alberta

Hi Raina,

I have just spoken with Dr. Deena Hinshaw, who is copied here. She will look into the question.

Many thanks Deena.

My best,

Reka  
Sent from my iPhone

On Apr 24, 2020, at 11:55 AM, Fumerton, Raina <[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)> wrote:

Hi Everyone,

Not sure how accurate this is so wanted to check in ... Is Kearn lake camp actually sending 1000 people home imminently?

Thanks,  
Raina

Dr. Raina Fumerton MD, MPH, FRCPC  
Northwest Medical Health Officer  
Acting Chief Medical Health Officer  
Northern Health  
[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)  
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**From:** Chapman, Ronald  
**Sent:** Friday, April 24, 2020 11:41 AM  
**To:** Central CD HUB <[CentralCDHUB@northernhealth.ca](mailto:CentralCDHUB@northernhealth.ca)>  
**Cc:** Kling, Rakeel <[Rakeel.Kling@northernhealth.ca](mailto:Rakeel.Kling@northernhealth.ca)>; Kim, Jong <[Jong.Kim@northernhealth.ca](mailto:Jong.Kim@northernhealth.ca)>;  
Fumerton, Raina <[Raina.Fumerton@northernhealth.ca](mailto:Raina.Fumerton@northernhealth.ca)>; Gray, Andrew  
<[Andrew.Gray@northernhealth.ca](mailto:Andrew.Gray@northernhealth.ca)>; Ramsingh, Rosemarie  
<[Rosemarie.Ramsingh@northernhealth.ca](mailto:Rosemarie.Ramsingh@northernhealth.ca)>  
**Subject:** Notification returning workers to BC from industrial camp in Alberta

Hi CD Team

Dr Harry Keyter (Cell: <sup>s.22</sup> Clinic 250-5664893) from the Valemount Diagnostic Clinic phoned and said they were informed that there was a Covid-19 outbreak at the Kearn Industrial Camp (40 km north of Ft McMurry) in Alberta and that they are sending a 1000 workers home and that some of those workers will be returning to Valemount. He did not have a list of names of the returning workers.

The outbreak was reported on the 16 April and it appears, they have not been able to control the infection and sending the workers home.

When the outbreak was reported in Alberta  
<https://www.theglobeandmail.com/canada/alberta/article-coronavirus-outbreak-hits-albertas-kearn-lake-oil-sands-camp/>

Keep well

---  
Dr Ronald Chapman MD FRCPC MBBCH MMed  
VP Medicine  
Sent from [Workspace ONE Boxer](#)

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## Sullivan, Michelle A HLTH:EX

---

**From:** Naus, Monika [BCCDC] <Monika.Naus@bccdc.ca>  
**Sent:** May 2, 2020 11:37 AM  
**To:** XT:Larder, Andrew Fraser Health Authority EAO:IN; XT:Adams, Evan HLTH:IN; King, Arlene; Behn Smith, Daniele HLTH:EX; Henry, Bonnie HLTH:EX; XT:Hanley, Brendan HLTH:IN; Elliott, Catherine [EXT]; Emerson, Brian P HLTH:EX; XT:HLTH Fyfe, Murray; XT:HLTH Gilbert, Mark; Grgar, Maja [BCCDC]; Gustafson, Reka [BCCDC]; XT:Kling, Rakel HLTH:IN; XT:Lysyshyn, Mark Dr. HLTH:IN; Lavoie, Martin Dr. HLTH:IN; XT:McDonald, Shannon HLTH:IN; XT:Mema, Dr. Silvina HLTH:IN; XT:Naus, Monika HLTH:IN; Daly, Patty [VCH]; Kendall, Perry [EXT]; XT:Fumerton, Raina HLTH:IN; XT:HLTH Stanwick, Richard; XT:HLTH Pollock, Sue; Corneil, Trevor HLTH:EX  
**Cc:** Grgar, Maja [BCCDC]  
**Subject:** Record of CMHO COVID-19 Public Health Measures call - May 1 2020  
**Attachments:** RoD CMHO COVID call May 1.docx

Hello all

The record of yesterday evening's meeting is enclosed. For reference, the action items from the call are in the bulleted list below.

If you have agenda items for Monday's call (standing item is laboratory update), please send these to Maja Grgar, copied above, by 3 pm on Monday.

Please note that while there is still a call on our calendars for Sunday at 5:15 pm, it's my understanding that this is NOT happening i.e., we made a decision not to meet on Sundays, unless there are urgent issues to address.

- Reka will draft an update to the testing guidelines applicable to children, obtain input from pediatrics, and circulate to members for approval
- Members to consider seroepidemiologic research that would inform public health practice and bring their thoughts to the Monday agenda
- Eleni will ask Alberta Health for BC to continue to receive information about all Kearsley Lake workers who are traveling to BC/ travel back and forth from BC with full contact information to enable follow-up by BC public health until this outbreak is over
- Bonnie will reinforce her recommendations in the Saturday media briefing; will highlight that messaging in AB may not have been as stringent but that in BC we need workers from Kearsley Lake to self-isolate for 14 days after leaving the site
- Reka will invite David Patrick to speak to this group about the research enterprise next week
- Members to send feedback on the circulated unintended consequences document to Jason and Brian

Thank you,  
Monika

.....  
Monika Naus MD FRCPC  
Medical Director, Communicable Diseases & Immunization Service  
Medical Head, Immunization Programs & Vaccine Preventable Diseases  
BC Centre for Disease Control  
monika.naus@bccdc.ca  
Tel 604.707.2540  
Cell s 17.....

## **CMHO COVID-19 Public Health Measures call – May 1 2020**

**5:15-6:43 pm**

### **Record of Discussion and Decisions**

**Participants:** Reka Gustafson (chair), Bonnie Henry, Brian Emerson, Trevor Corneil, Patty Daly, Martin Lavoie, Richard Stanwick, Silvina Mema, Raina Fumerton, Danièle Behn Smith, Shannon McDonald, Perry Kendall, Catherine Elliott, Alexis Crabtree, Jason Wong, Eleni Galanis, Monika Naus (recorder)

#### **1. Roundtable**

Reka asked whether HAs have seen an increase in the number of children coming forward for testing now that the testing guidelines have expanded. She has been asked to write a clarification on the testing criteria for children. She said she did not think that our criteria were meant to imply that all children with runny noses should be tested, and suggested the following criteria: if there is an adult case in the household, or part of cluster, or if ill enough to seek medical care. Additional suggestions: if going to daycare or school. Shannon reported that out of 277 First Nations people tested, 2% were kids and none were positive. Reka also indicated that in 27 pediatric cases in a household only in 4 children may have transmitted in the household, but in the remaining such transmission could not be identified.

**ACTION:** Reka will draft an update to the testing guidelines applicable to children, obtain input from pediatrics, and circulate to members for approval

Reka reported that she had been on a call with the federal seroepidemiology group. Health care workers, testing of vulnerable unstably housed populations, remote and indigenous communities, serial testing in schools for 'monitoring' are all considerations of relevance to public health.

**ACTION:** Members to consider seroepidemiologic research that would inform public health practice and bring their thoughts to the Monday agenda

#### **2. Surveillance Update**

Eleni presented on the precirculated slide set. Discussion: that causes of deaths are still to come that may clarify contributions including potentially unintended consequences such as cancelled surgeries. DPIC slide showing increased exposure to household cleaners largely because of using higher than recommended concentrations of bleach, or mixing with other cleaners. Sustained increase in MSP billings for asthma starting in February and ongoing to present, coincidental with increase in sale of salbutamol; hypotheses discussed were the late peak of influenza, high levels of pollen, more concern about wheezing than usual which may or may not be COVID-19 related. Increase in numbers of cases reported since April 21 thought to be due to expanded testing. Larger number of outbreaks detected recently and testing of all of those in these settings (poultry processing plants and prison); in recent period 2/3 community cases and 1/3 outbreak cases. It was noted that we need to look at improving processes of reporting on cases without a recognized source; currently it's a smaller proportion than it used to be. The number of prevalent

cases has been quite stable, with cases leaving this pool as they complete their period of isolation. Dynamic departmental model slide was commented on as the combination of considerations about reducing contacts along with mitigating measures to reduce transmission such as physical distancing shown by proportional increases and in relation to impact on new hospitalizations. This information can be produced to inform regional discussions. Excellent contact tracing is considered important in prevention of 2<sup>nd</sup> wave; completeness and effectiveness of contact tracing more important than timeliness although details of this were not shown; more information to be presented on Monday.

Richard is hearing that there are significant shifts in people moving their primary care from a physician to systems like Babylon Health. Sarah Henderson and her team are very aware of this and it will be examined using Telehealth billing codes to understand how this has grown, and to capture related visits such as for acute respiratory illness, asthma, etc. Bonnie mentioned that she has worked with the College on 'your physician knows you best' messaging and they've seen a dramatic difference since this has been issued. Patty raised concern that family doctors who usually attend on their patients within long term care are not coming in to see them. Some physicians are using the single site order to indicate why they cannot visit, but this does not apply to them. VCH EOC has asked for support to be able to provide direction on this. Trevor has been in conversation with Heidi Oetter at CPSBC around bringing less essential services back on line; there will be messaging from the College next week; are trying to tie in the PPE requirements as well. This is being done for all regulated health professions and are having a mixed response, with some concerned about transmission risk. Patty indicated that there is sufficient PPE in VCH to support return to clinical care; Trevor indicated this is not universal across the whole province and are looking to have this improved by next week. Trevor is also trying to frame that digital care should not be the only modality in which way services are delivered.

### **3. Kearl Lake Update**

Eleni reported that PHAC are now coordinating the outbreak response; there are 90 cases associated including 13 in BC; Silvina indicated that they have 22 cases in total in IHA and the data provided to BCCDC may be incomplete. The outbreak spans March 18-April 26. Imperial Oil is the main employer but there are a number of subcontractors, with about 2500 people at the worksite at any given time. April 14<sup>th</sup> the outbreak was declared and April 16<sup>th</sup> Alberta Health Services visited and implemented further control measures although cases have been reported 10 days after this time period. It's not clear whether there have been risk transmission settings/activities as the epidemiologic data presented has not examined whether the cases can be circumscribed by any common elements. There is recognition that there are gaps in the process to date and Eleni and others are not confident that the outbreak is controlled. Alberta Health (AH) has indicated that not all those at the worksite are considered 'at risk' and only contacts of cases are being handled as at risk and being reported to other provinces, but BC has not received any such 'contact' reports from AH. Bonnie indicated that during a public health emergency, her giving a verbal order in her media briefing is sufficient. Issue is that messaging from Imperial Oil and AH has been different than the one from BC PHO. Bonnie asked whether messaging using social media can be done; Heather Amos has already done this but the suggestion that a press release be issued. IHA is supportive of that as they have the majority of the individuals and

two outbreaks have been related to these workers. There is an additional call on Monday with Alberta at which time we will know what information they have been able to obtain from Imperial Oil as additional contact information has been requested which was missing from the file provided last Friday, to enable follow-up of workers. Imperial Oil has implemented extensive measures on site, detailed here: <https://www.imperialoil.ca/en-CA/Updates/COVID-19/Protecting-our-Kearl-workforce-from-COVID-19>

**ACTION:** Eleni will ask Alberta Health for BC to continue to receive information about all Kearl Lake workers who are traveling to BC/ travel back and forth from BC with full contact information to enable follow-up by BC public health until this outbreak is over

**ACTION:** Bonnie will reinforce her recommendations in the Saturday media briefing; will highlight that messaging in AB may not have been as stringent but that in BC we need workers from Kearl Lake to self-isolate for 14 days after leaving the site

#### **4. COVID-19 survivors cohort**

The provincial Strategic Research Advisory Committee (SRAC) is interested in developing a proposal to create a provincial cohort of all COVID-19 survivors for follow up for both antibody/immunologic and clinical outcomes. Perry is involved with the SRAC in BC. The group is interested in a range of long term effects including renal, cardiac, and pulmonary. A wide range of clinicians are interested in following these individuals to understand the consequences. Interested in pooling resources for a coherent proposal for MSF and/ or federal funding. The ask to this group is whether they would support and facilitate this work. Patty has been talking to Rob McMaster at UBC; UBC Dean of Medicine has put together a consortium; David Patrick and Mel Krajden are members. VCH has been starting to get consent routinely from new positives for participation in research. Suggested that this UBC group needs to have a discussion with the CMHOs. Bonnie asked why there are these two separate committees; she had discussed with the funders early on to have a single strategic committee and Rob McMaster is on it. Bonnie indicated that there is a strategic research plan and that it's to be a single process.

**ACTION:** Reka will invite David Patrick to speak to this group about the research enterprise next week

#### **5. Unintended consequences update**

Jason reported that there have been two calls of the working group; have been working on TOR and governance model; report to public health operations of HECC. Will bring in ad hoc task groups of First Nations HA, BCCDC, regions, and others as required. Table lists 4 domains: health, social, economic and environmental. Speaking to the stakeholders to identify indicators. Intention is to identify indicators that can prioritize actions. Collecting input and feedback. Brian reported that at the next meeting will prioritize. Have a sense of what some of these are. Happy to hear top of mind priorities from this group. Next report will be on where they land with some priorities. Still building the membership to ensure that the clinical consequences are also reflected. Reka indicated that the provincial clinical group is already engaged and that the regional EOCs also have lots of ideas for these and what has been happening. Jason asked are

these members that the working group should engage with, or should they have membership on the working group?

**ACTION: Members to send feedback on the circulated unintended consequences document to Jason and Brian**