

From: [Coombe, Michelle AGRI:EX](#)
To: [Botkin, Clayton AGRI:EX](#); [Forbes, Christina D AGRI:EX](#); [Hughes, Marie Julie AGRI:EX](#)
Cc: [Gunvaldsen, Rayna AGRI:EX](#); [Viney, Ursula E AGRI:EX](#); [Radke, Brian AGRI:EX](#)
Subject: RE: ICS organization for enacting surveillance protocols this afternoon
Date: December 17, 2020 2:05:31 PM

Hi Clayton

Thanks for this and apologies for the delay in getting information back to you. Too much going on at once.

1. Currently I believe they can skin them as the pelting protocols are approved but doing so affects the producer's date for release from self-isolation so I believe they are reluctant to undertake any pelting
2. The lab wants the whole carcass (although with or without pelt is fine from their perspective)
3. See #2. You can double check with Chelsea (who can connect with Natalie at BCCDC) to determine if head only would be ok for urgent testing

I believe they have been approved to pelt but doing so may re-start their 14 days self-isolation period which they are not keen on for obvious reasons. I believe Rayna and Public Health are clarifying if pelting a few animals for purposes of animal testing is low enough risk and how that would or would impact the need to re-start the self-isolation period.

Excellent – thank you so much for mobilizing Julie You are all amazing!!! I have not heard from anyone that the producer is going to release carcasses to us today so I suspect this is not happening but will let you know immediately if I hear otherwise.

If it is not reasonable to pick up paperwork placed in a ziplock bag by the tote(s) then it sounds like we will have to adjust the protocols for a different plan for the paperwork. I can help with the initial form but I'm not in direct contact with the producer so someone who is will have to confirm the details. **It is very important for the lab that the submission form and the carcasses arrive together to the lab, so I think Julie (or whomever is picking up the carcasses) will need to keep the completed form with them.** When we start ongoing surveillance on the IP we'll have to brainstorm to figure out a more efficient system

Thank you all again so much.
Cheers,
Michelle

From: Botkin, Clayton AGRI:EX <Clayton.Botkin@gov.bc.ca>
Sent: December 17, 2020 11:47 AM
To: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Forbes, Christina D AGRI:EX <Christina.Forbes@gov.bc.ca>; Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Cc: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: RE: ICS organization for enacting surveillance protocols this afternoon

Hello Michelle,

We will gather our thoughts and put some ideas together.

I have a couple of suggestions for consideration on the 200 mink, pending the issue with compensation and pelts:

1. Could the producer skin them, and provide the carcass, preserving the pelt?
2. Could the producer submit an unusable portion of the animals, with pelt attached that could be sampled (eg. Remove a foot or leg, head or tail)? If the producer could remove and submit the heads, it might fit our needs and be quickly available.
3. Are there other parts of the animal that could be submitted to satisfy the urgent need for testing?

Also, to confirm, WorkSafe has prohibited pelting operations, correct? If so, it limits the ability to sample parts of a carcass.

We spoke to Julie, she has been fit tested, and able to pick them up if needed, and provided the appropriate protocol. I will connect Julie with Tony Redford and we can use some of the Avian Influenza bins for transport.

We would need guidance on the paperwork needs as well, as ideally, maybe Rayna or Michelle could complete the paperwork on the producers' behalf with verbal consent. We do not want to have people exchanging items or paperwork on the farm.

We will await further direction to advance, considering Julie needs about an hour and a half notice prior to pickup.

Thanks,
Clayton

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>

Sent: December 17, 2020 11:26 AM

To: Botkin, Clayton AGRI:EX <Clayton.Botkin@gov.bc.ca>; Forbes, Christina D AGRI:EX <Christina.Forbes@gov.bc.ca>

Cc: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>

Subject: ICS organization for enacting surveillance protocols this afternoon

Importance: High

Hi Clayton and Christina

My apologies for breaking the ICS chain of command but in the interests of a very tight timeline (i.e., possibly this afternoon) and Rayna's very full schedule and inbox, I've been asked to send everything out on her behalf. I've made a list of the protocols and what each one is at the bottom of the email

for easy reference.

Rayna, Tomy, and Erin have all ok'd the protocols. **Chelsea is still confirming the tote cleaning strategy suggested by Erin will work for the PM room staff but otherwise everything should be finalized from my end.** The two protocols specifically for the producers (*Draft - protocol for surveillance mortality pickup from IP* and *Draft - Protocol for surveillance mortality pickup from uninfected mink farms*) are also going out to WorkSafe and Fraser Health imminently so they are aware of what is being asked.

The most pressing logistics issue is the pick up of 200 frozen carcasses from the IP. Chelsea needs them at the AHC by 4:30pm today if testing is to happen before January. However, Rayna and Public Health are still coordinating the release of pelts with the producer as he does not want to release to us without compensation. If we are able to go ahead this afternoon, can the ICS able to coordinate PPE, supplies and personnel to make this happen? I have a list of supplies in the Ministry pick up protocol (*Draft - MAFF surveillance pick up procedures_EZ*) and we will need someone who is/can be fit-tested, and probably have the mammalian lab submission form mostly already filled out for the producer. Not sure if the producer will have clean totes that can be used for transport of 200 frozen mink on hand or if we will have to organize that too.

One last note: public health clarified that as the MHO Order comes from them, they need to communicate out the requirements for animal testing to the producers. I believe our communication people are being looped in.

Thank you so so so much.

Cheers,
Michelle

1. Overview of the anticipated sampling sizes (*Draft - Anticipated samples sizes for surveillance in farmed mink_16Dec2020*).
 - Internal use only
2. Protocol for producers on **uninfected** farms so mortalities can be picked up by Public Health (*Draft - Protocol for surveillance mortality pickup from uninfected mink farms*).
 - This document is being forwarded to Fraser Health and WorkSafe
3. Protocol for carcass collection and preparation for pickup on the **infected premises** (*Draft - protocol for surveillance mortality pickup from IP*)
 - This document is being forwarded to Fraser Health and WorkSafe
4. Protocol for pickup by MAFF staff from farms. (*Draft - MAFF surveillance pick up procedures*)
 - We might only need this (initially) for pickup of the 200 frozen carcasses from the IP. But might need later for ongoing surveillance too.
5. Older protocol for lab re: submission, sampling, testing. (*Draft - MAFF mink SARSCoV2 surveillance lab protocol*)
 - I believe this can now get tossed as Chelsea has an updated protocol, but have included this just in case I missed something

From: [Viney, Ursula E AGRI:EX](#)
To: [Coombe, Michelle AGRI:EX](#); [Zabek, Erin AGRI:EX](#); [Gunvaldsen, Rayna AGRI:EX](#); [Radke, Brian AGRI:EX](#); [Hughes, Marie Julie AGRI:EX](#)
Subject: RE: Draft protocols for sampling -
Date: December 4, 2020 12:20:36 PM

Tony Redford is on standby to go and pick up.

Ursula

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
Sent: December 4, 2020 12:18 PM
To: Zabek, Erin AGRI:EX <Erin.Zabek@gov.bc.ca>; Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Subject: RE: Draft protocols for sampling -

Thanks for the quick responses Erin and Julie. I agree being more cautious and scaling down if it's overkill is a better way to go than scaling up.

Assuming the carcasses will be placed at the end of a driveway, let's go with the last draft that Erin sent, and if we need to go on farm, then we should also follow the procedures Julie outlined.

Rayna – we will need to ask the producer to bag up the mink as per the protocol and print off a completed mammalian submission form.

Ursula – is this sufficient to get someone going in case of pick up today? They will need to get Virkon in a spray bottle, gloves, Tyvek suit, a respirator, biohazard bag for the used PPE, and a dedicated bin for transport that can be disinfected.

Thanks,
Michelle

From: Zabek, Erin AGRI:EX <Erin.Zabek@gov.bc.ca>
Sent: December 4, 2020 12:03 PM
To: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Subject: RE: Draft protocols for sampling -

This may be a bit of an overkill but I rather go more extreme the first few times until there is a better understanding of our current situation. I have based this on what was done for AI and what is done for Salmonella on farm sampling.

Erin

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>

Sent: December 4, 2020 11:47 AM

To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>; Zabek, Erin AGRI:EX <Erin.Zabek@gov.bc.ca>

Subject: Draft protocols for sampling -

Importance: High

Hi everyone

Given the situation on farm, here are the draft protocols for surveillance in mink. Erin, can you comment on if biosecurity aspects are ok with respect to sample pick up (Draft – Surveillance sampling for mink farmers.docx)?

Thanks very much!

Cheers,

Michelle



Ministry of
Agriculture

Plant and Animal Health Branch
1767 Angus Campbell Rd
Abbotsford BC V3G 2M3
Ph: (604) 556-3093
Fax: (604) 556-3015
Toll Free: 1-877-877-2474

Animal Health Act – Quarantine Zone Order

Area of Quarantine Zone
This Order establishes a Quarantine Zone on the following area: s.79 (the "Premise")
Reason for Order
The Chief Veterinarian reasonably believes, based on the results of a diagnostic examination, a Reportable Disease is present. Name of Reportable Disease giving rise to this Order: SARS-CoV-2
Person(s) who must Comply with this Order
The following individuals or classes of individuals must comply with this Order: All persons entering or exiting the premise Premise, working, or living on the premise Premise.
Date this order is issued: _____ , 20____
Date this order takes effect, if different: _____ , 20____
Reference Number: _____

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

The person(s) subject to this Order must comply with this Order

Commented [LKA1]: Make sure this is on the first page.

Contact information of owner of Premises, Information of Person(s) and Place(s) Subject to Order
Name of person(s) who is subject to this order: s.79
Contact information: s.79
Address(es) of premises this order relates to, if applicable): s.79
Premises identification account number(s): Premises identification number(s):
Contact information of owner of premises, if different from above: s.79
Contact information for operator of premises Premises , if different from above:

Commented [LKA2]: Removed this as everyone in the Premises is subject to the order

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

The following are subject to this Quarantine Zone Order:
Species of Animals:

All animals on the premise that are not wildlife or feral animals, including but not limited to mink, domestic ferrets, domestic cats, and domestic dogs.

Animal products or by-products:

All animal products on farm (including but not limited to pelts) and animal by-products (including but not limited to pelts, feed, manure and carcasses).

Commented [LKA3]: Animal products are defined as those intended for human consumption.

Commented [LKA4]: By-products are taken from the body of the animal but not meant for human consumption.

Things:

All vehicles, equipment, or machinery or animal feed on farm as well as outerwear clothing and personal protective equipment worn when in close contact (i.e., < 2m) with farmed mink.

s.13

Terms and Conditions

The following terms and conditions apply with respect to this Quarantine Zone Order:

Animals, animal products or by-products, and things subject to the Order must not leave the premise without express written consent by the Chief Veterinarian.

Commented [LKA6]: Would also be covered by s. 41(a) General Order

All persons entering the premises must wear personal protective equipment (PPE) including but not limited to: (i) medical mask, N95 mask, or respirator, (ii) goggles or face shield, (iii) protective outerwear such as Tyvek suit or on-farm coveralls, (iv) disposable boot covers or on-farm boots that are disinfected when entering the Premise, and (v) disposable gloves.

All persons entering the premises and must abide by biosecurity protocols as designated by the Chief Veterinarian, by biosecurity protocols including but not limited to: (i) parking vehicles in designated location off the Premise or at entrance to Premise, (ii) wearing PPE as described while on the Premise, (iii) when exiting the Premise, remove PPE and place into a plastic bag, seal and spray with SARS-CoV-2 approved disinfectant, place into a second plastic bag that is also sealed and sprayed with SARS-CoV-2 disinfectant, and must remain on or be disposed of on the Premise for the duration of the Order, and (iv) spraying vehicles tires with SARS-CoV-2 approved disinfectant prior to leaving the designated parking location.

s.13

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Outerwear clothing and personal protective equipment worn while in close contact (i.e., < 2m) with farmed mink must remain on or be disposed of on the Premise, unless directed otherwise in writing by the Chief Veterinarian.

Daily logs of any people entering and exiting the Premises (including but not limited to names, dates, times of entry/exit, and contact information) must be maintained for the duration of the Order.

Testing of animals, animal products, animal by-products, things and the environment in which they reside must be performed as designated by the Chief Veterinarian to determine the infection status of these subjects.

Commented [LKA8]: s. 41(i) disposal of a thing in accordance with a specified procedure.

Commented [LKA9]: s. 41(n)

Commented [LKA10]: s. 41(f)/ s 40.

s.13

Additional Actions which Must be Taken

Action:

Five mink carcasses will be provided on a weekly basis to the Animal Health Centre for SARS-CoV-2 testing for the duration of the Order. If five mink carcasses are not available, as many carcasses as are available must be provided.

Commented [LKA11]: s. 41(f)/ s 40.

s.13

Date by which action must be complete, if applicable:

Completed? Y/N

Inspector Initial and Date

Notes:

Action:

Date by which action must be complete, if applicable:

Completed? Y/N

Inspector Initial and Date

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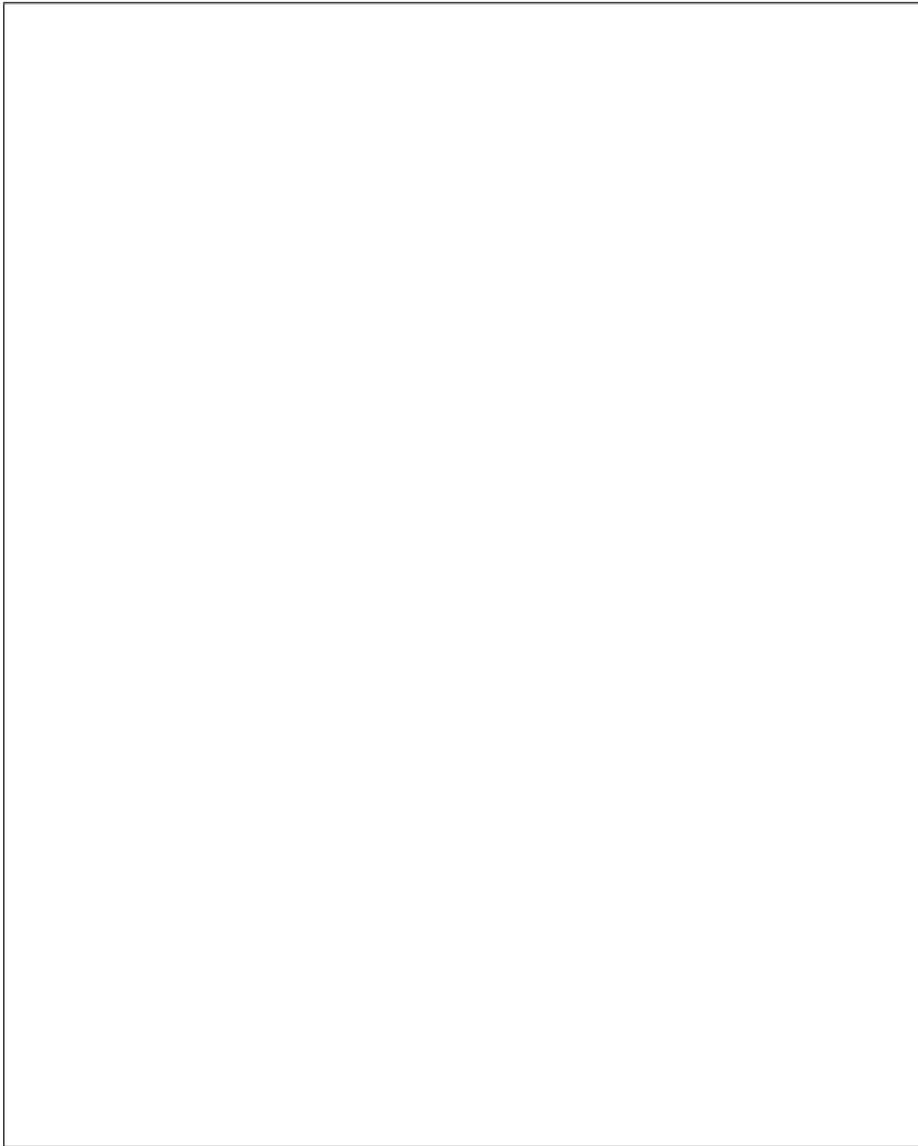
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Completed? Y/N	Inspector Initial and Date
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Additional Comments

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**Authority for Quarantine Zone Order**

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE *ANIMAL HEALTH ACT*.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

This Order is issued pursuant to section 27 of the *Animal Health Act*.

Termination of Quarantine Zone Order

This Order terminates on the following date or in the following circumstances: (If no date or circumstance stated, refer to section 50 of the *Animal Health Act*. See Appendix A)

Contact Information

Name and contact information of inspector who made the Order:

Rayna Gunvaldsen
Rayna.Gunvaldsen@gov.bc.ca
 604-556-3013

Veterinarian or diagnostic laboratory contacted (if applicable):

Animal Health Centre
 1767 Angus Campbell Road
 Abbotsford, BC V3G 2M3

Inspector

Date

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Orders

You have been issued an order. Failure to comply with an order is an offense under s. 81 of the *Animal Health Act*. If this order is posted, you must not remove, alter, or deface it. If an inspector believes that you are not adequately complying with this order, an inspector is authorized to enter into the place described in this document and take action to ensure this order is carried out. You are liable for all costs of any work that the inspector authorizes to be carried out to ensure compliance with this order.

You may request a reconsideration of this order. A request for reconsideration must be in the form and manner required by the Chief Veterinarian.

Reconsideration

If you have additional relevant information which was not available when the inspector made the order you may request the issuing inspector to reconsider this order. The inspector may

- Vary, confirm, or rescind this order;
- Delay the date the order takes effect or suspend the order, if this delay will not be a risk to animal or public health; or,
- Reject your request if the information was available or is not relevant.

This order continues to be in effect while the inspector reconsiders it unless the inspector agrees in writing to suspend it. You will receive written reasons for the reconsideration decision. You may not request a second reconsideration.

Appendix A

Section 50 of the *Animal Health Act* states

50 An order ceases to have effect on the date or in the circumstances stated in the order, or if no date or circumstances are stated, as follows:

- (a) If an order is served by posting the order, or notice of the order, in or on a place, on the date the order or notice is removed from the place by the minister or the inspector who made the order, or by a person acting under the direction of either of them;
- (b) If an order is served by publishing the order, or notice of the order, on the date the inspector who made the order publishes a notice that the order has been terminated;
- (c) If an order is made under section 41 (m) [*general orders*], on the date the person subject to the order provides evidence of compliance as required by the order;
- (d) In any other case, on the date the inspector who made the order provides notice by any means to the person subject to the order that the order is terminated.

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Ministry of
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Name of person(s) who is subject to this order: s.79
Contact information: s.79
Address(es) of premises this order relates to, if applicable): s.79
Premises identification account number(s): Premises identification number(s):
Contact information of owner of premises, if different from above: s.79
Contact information for operator of premises Premises , if different from above:

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s. 13

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Commented [LKA6]: Would also be covered by s. 41(a) General Order

s. 13

Commented [LKA8]: s. 41(i) disposal of a thing in accordance with a specified procedure.

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Commented [LKA10]: s. 41(f)/ s 40.

s.13

Additional Actions which Must be Taken

Action:

Date by which action must be complete, if applicable:

Completed? Y/N

Inspector Initial and Date

Notes:

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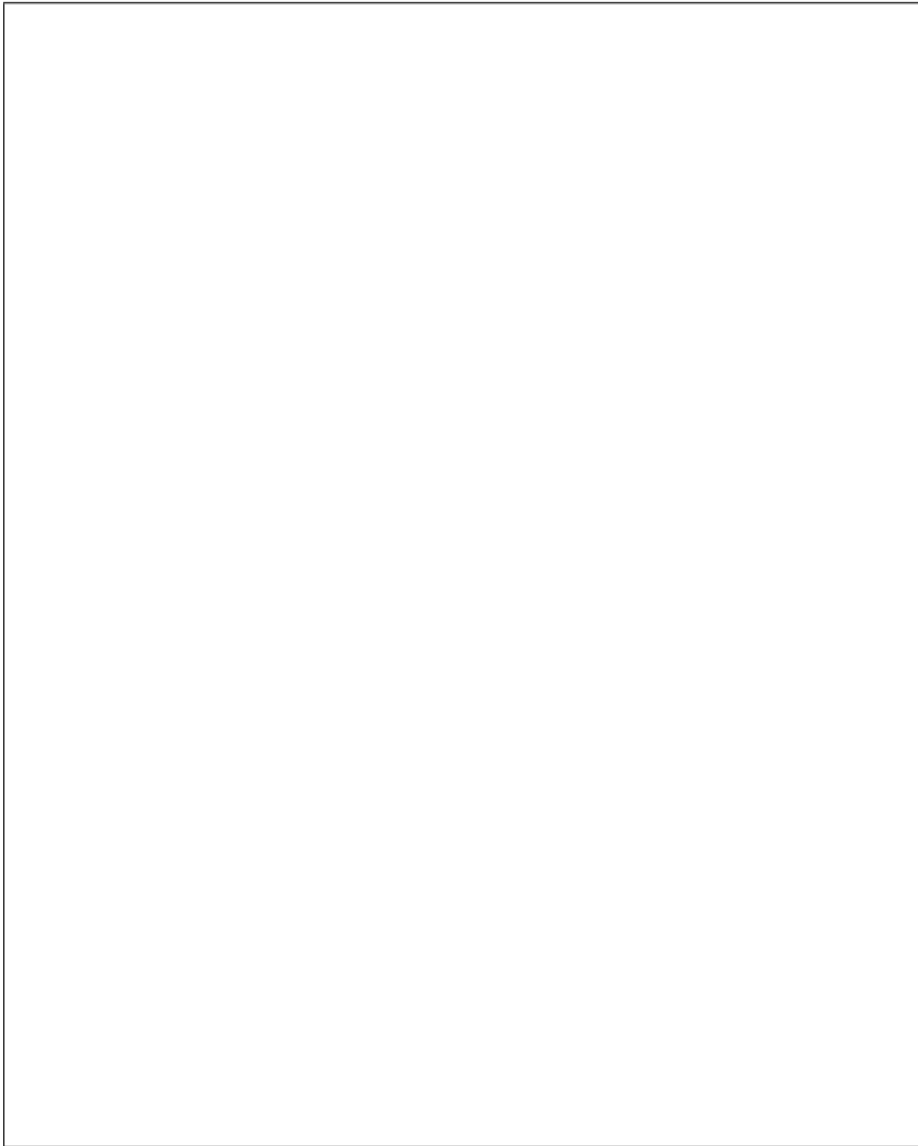
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Animal Health Centre
 1767 Angus Campbell Road
 Abbotsford, BC V3G 2M3

Inspector

Date

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Orders

You have been issued an order. Failure to comply with an order is an offense under s. 81 of the *Animal Health Act*. If this order is posted, you must not remove, alter, or deface it. If an inspector believes that you are not adequately complying with this order, an inspector is authorized to enter into the place described in this document and take action to ensure this order is carried out. You are liable for all costs of any work that the inspector authorizes to be carried out to ensure compliance with this order.

You may request a reconsideration of this order. A request for reconsideration must be in the form and manner required by the Chief Veterinarian.

Reconsideration

If you have additional relevant information which was not available when the inspector made the order you may request the issuing inspector to reconsider this order. The inspector may

- Vary, confirm, or rescind this order;
- Delay the date the order takes effect or suspend the order, if this delay will not be a risk to animal or public health; or,
- Reject your request if the information was available or is not relevant.

This order continues to be in effect while the inspector reconsiders it unless the inspector agrees in writing to suspend it. You will receive written reasons for the reconsideration decision. You may not request a second reconsideration.

Appendix A

Section 50 of the *Animal Health Act* states

50 An order ceases to have effect on the date or in the circumstances stated in the order, or if no date or circumstances are stated, as follows:

- (a) If an order is served by posting the order, or notice of the order, in or on a place, on the date the order or notice is removed from the place by the minister or the inspector who made the order, or by a person acting under the direction of either of them;
- (b) If an order is served by publishing the order, or notice of the order, on the date the inspector who made the order publishes a notice that the order has been terminated;
- (c) If an order is made under section 41 (m) [*general orders*], on the date the person subject to the order provides evidence of compliance as required by the order;
- (d) In any other case, on the date the inspector who made the order provides notice by any means to the person subject to the order that the order is terminated.

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.
IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.



Ministry of
Agriculture

Plant and Animal Health Branch
1767 Angus Campbell Rd
Abbotsford BC V3G 2M3
Ph: (604) 556-3093
Fax: (604) 556-3015
Toll Free: 1-877-877-2474

Animal Health Act – Quarantine Zone Order

The person(s) subject to this Order must comply with this Order

Area of Quarantine Zone
<p>This Order establishes a Quarantine Zone on the following area:</p> <p>s.79</p> <p>with the legal description:</p> <p>s.79</p> <p>(the "Premises").</p>
Reason for Order
<p>The Chief Veterinarian reasonably believes, based on the results of a diagnostic examination, a Reportable Disease is present.</p> <p>Name of Reportable Disease giving rise to this Order:</p> <p>SARS-CoV-2</p>
Person(s) who must Comply with this Order
<p>The following individuals or classes of individuals must comply with this Order:</p> <p>All persons entering or exiting the Premises.</p>
<p>Date this order is issued: _Friday, December 4, 2020</p> <p>Date this order takes effect, if different: Friday, December 4, 2020</p> <p>Reference Number:</p>

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Contact information of owner of Premises
s.79
Contact information for operator of Premises, if different from above:

The following are subject to this Quarantine Zone Order:
<p>Species of Animals:</p> <p>All farmed mink, domestic ferrets, domestic cats, and domestic dogs</p> <p>(the "Identified Animal Species").</p>
<p>Animal products or by-products:</p> <p>All animal by-products (including but not limited to pelts, manure and carcasses) from an Identified Animal Species.</p>
<p>Things:</p> <ul style="list-style-type: none"> • All animal feed; • All vehicles, equipment, machinery that have come in contact with an Identified Animal Species; • Outerwear clothing and personal protective equipment worn when in close contact (i.e., < 2m) with an Identified Animal Species; • Any thing associated with the care, feeding, raising of or cleaning of an Identified Animal Species; and, • Any other thing that has come into contact with an Identified Animal Species.

Terms and Conditions
<p>The following terms and conditions apply with respect to this Quarantine Zone Order:</p> <p>Animals, animal by-products, and things subject to the order must not leave the Premises without express written consent by the Chief Veterinarian.</p> <p>Daily logs of any people entering and exiting the Premises (including but not limited to names, dates, times of entry/exit, and contact information) must be maintained for the duration of the Order.</p>

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Authority for Quarantine Zone Order
This Order is issued pursuant to section 27 of the <i>Animal Health Act</i> .
Termination of Quarantine Zone Order
This Order terminates on the following date or in the following circumstances: (If no date or circumstance stated, refer to section 50 of the <i>Animal Health Act</i> . See Appendix A)

Contact Information
Name and contact information of inspector who made the Order: Rayna Gunvaldsen Rayna.Gunvaldsen@gov.bc.ca 604-556-3013
Veterinarian or diagnostic laboratory contacted (if applicable): Animal Health Centre 1767 Angus Campbell Road Abbotsford, BC V3G 2M3



Inspector

December 4, 2020

Date

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE *ANIMAL HEALTH ACT*.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Orders

You have been issued an order. Failure to comply with an order is an offense under s. 81 of the *Animal Health Act*. If this order is posted, you must not remove, alter, or deface it. If an inspector believes that you are not adequately complying with this order, an inspector is authorized to enter into the place described in this document and take action to ensure this order is carried out. You are liable for all costs of any work that the inspector authorizes to be carried out to ensure compliance with this order.

You may request a reconsideration of this order. A request for reconsideration must be in the form and manner required by the Chief Veterinarian.

Reconsideration

If you have additional relevant information which was not available when the inspector made the order you may request the issuing inspector to reconsider this order. The inspector may

- Vary, confirm, or rescind this order;
- Delay the date the order takes effect or suspend the order, if this delay will not be a risk to animal or public health; or,
- Reject your request if the information was available or is not relevant.

This order continues to be in effect while the inspector reconsiders it unless the inspector agrees in writing to suspend it. You will receive written reasons for the reconsideration decision. You may not request a second reconsideration.

Appendix A

Section 50 of the *Animal Health Act* states

50 An order ceases to have effect on the date or in the circumstances stated in the order, or if no date or circumstances are stated, as follows:

- (a) If an order is served by posting the order, or notice of the order, in or on a place, on the date the order or notice is removed from the place by the minister or the inspector who made the order, or by a person acting under the direction of either of them;
- (b) If an order is served by publishing the order, or notice of the order, on the date the inspector who made the order publishes a notice that the order has been terminated;
- (c) If an order is made under section 41 (m) [*general orders*], on the date the person subject to the order provides evidence of compliance as required by the order;
- (d) In any other case, on the date the inspector who made the order provides notice by any means to the person subject to the order that the order is terminated.

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

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Toll Free: 1-877-877-2474

Animal Health Act – Quarantine Zone Order

Area of Quarantine Zone
This Order establishes a Quarantine Zone on the following area: s.79 (the "Premise")
Reason for Order
The Chief Veterinarian reasonably believes, based on the results of a diagnostic examination, a Reportable Disease is present. Name of Reportable Disease giving rise to this Order: SARS-CoV-2
Person(s) who must Comply with this Order
The following individuals or classes of individuals must comply with this Order: All persons entering or exiting the premise Premise, working, or living on the premise Premise.
Date this order is issued: _____ , 20____
Date this order takes effect, if different: _____ , 20____
Reference Number: _____

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

The person(s) subject to this Order must comply with this Order

Commented [LKA1]: Make sure this is on the first page.

Contact information of owner of Premises, Information of Person(s) and Place(s) Subject to Order
Name of person(s) who is subject to this order: s.79
Contact information: s.79
Address(es) of premises this order relates to, if applicable): s.79
Premises identification account number(s): Premises identification number(s):
Contact information of owner of premises, if different from above: s.79
Contact information for operator of premises Premises , if different from above:

Commented [LKA2]: Removed this as everyone in the Premises is subject to the order

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

The following are subject to this Quarantine Zone Order:
Species of Animals:

All animals on the premise that are not wildlife or feral animals, including but not limited to mink, domestic ferrets, domestic cats, and domestic dogs.

Animal products or by-products:

All animal products on farm (including but not limited to pelts) and animal by-products (including but not limited to pelts, feed, manure and carcasses).

Things:

All vehicles, equipment, or machinery or animal feed on farm as well as outerwear clothing and personal protective equipment worn when in close contact (i.e., < 2m) with farmed mink.

Commented [LKA3]: Animal products are defined as those intended for human consumption.

Commented [LKA4]: By-products are taken from the body of the animal but not meant for human consumption.

s.13

Terms and Conditions

The following terms and conditions apply with respect to this Quarantine Zone Order:

Animals, animal products or by-products, and things subject to the order must not leave the premise without express written consent by the Chief Veterinarian.

All persons entering the premises must wear personal protective equipment (PPE) and abide by biosecurity protocols as designated by the Chief Veterinarian. PPE includes

Outerwear clothing and personal protective equipment worn while in close contact (i.e., < 2m) with farmed mink must remain on or be disposed of on the premise, unless directed otherwise in writing by the Chief Veterinarian.

Daily logs of any people entering and exiting the premises (including but not limited to names, dates, times of entry/exit, and contact information) must be maintained for the duration of the Order.

Testing of animals, animal products, animal by-products, things and the environment in which they reside must be performed as designated by the Chief Veterinarian to determine the infection status of these subjects.

Commented [LKA6]: Would also be covered by s. 41(a) General Order

s.13

Commented [LKA8]: s. 41(i) disposal of a thing in accordance with a specified procedure.

Commented [LKA9]: s. 41(n)

Commented [LKA10]: s. 41(f)/ s 40.

s.13

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Additional Actions which Must be Taken	
Action:	
Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
Notes:	
Action:	
Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
Notes:	
Action:	
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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Additional Comments

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE *ANIMAL HEALTH ACT*.
IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Authority for Quarantine Zone Order

This Order is issued pursuant to section 27 of the *Animal Health Act*.

Termination of Quarantine Zone Order

This Order terminates on the following date or in the following circumstances: (If no date or circumstance stated, refer to section 50 of the *Animal Health Act*. See Appendix A)

Contact Information

Name and contact information of inspector who made the Order:

Rayna Gunvaldsen
Rayna.Gunvaldsen@gov.bc.ca
 604-556-3013

Veterinarian or diagnostic laboratory contacted (if applicable):

Animal Health Centre
 1767 Angus Campbell Road
 Abbotsford, BC V3G 2M3

Inspector

Date

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

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Orders

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You may request a reconsideration of this order. A request for reconsideration must be in the form and manner required by the Chief Veterinarian.

Reconsideration

If you have additional relevant information which was not available when the inspector made the order you may request the issuing inspector to reconsider this order. The inspector may

- Vary, confirm, or rescind this order;
- Delay the date the order takes effect or suspend the order, if this delay will not be a risk to animal or public health; or,
- Reject your request if the information was available or is not relevant.

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Appendix A

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- (c) If an order is made under section 41 (m) [*general orders*], on the date the person subject to the order provides evidence of compliance as required by the order;

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- (d) In any other case, on the date the inspector who made the order provides notice by any means to the person subject to the order that the order is terminated.

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Ministry of
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Ph: (604) 556-3093
Fax: (604) 556-3015
Toll Free: 1-877-877-2474

Animal Health Act – Quarantine Zone Order

Area of Quarantine Zone
This Order establishes a Quarantine Zone on the following area: s.79
Reason for Order
The Chief Veterinarian reasonably believes, based on the results of a diagnostic examination, a Reportable Disease is present. Name of Reportable Disease giving rise to this Order: SARS-CoV-2
Person(s) who must Comply with this Order
The following individuals or classes of individuals must comply with this Order: All persons entering or exiting the premise, or working or living on the premise.
Date this order is issued: _____ , 20____
Date this order takes effect, if different: _____ , 20____
Reference Number:

The person(s) subject to this Order must comply with this Order

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Information of Person(s) and Place(s) Subject to Order
<p>Name of person(s) who is subject to this order:</p> <p>s.79</p>
<p>Contact information:</p> <p>s.79</p>
<p>Address(es) of premises this order relates to, if applicable):</p> <p>s.79</p>
<p>Premises identification account number(s):</p> <p>Premises identification number(s):</p>
<p>Contact information of owner of premises, if different from above:</p>
<p>Contact information for operator of premises, if different from above:</p>

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

The following are subject to this Quarantine Zone Order:
Species of Animals:

All animals on the premise that are not wildlife or feral animals, including but not limited to mink, domestic ferrets, domestic cats, and domestic dogs.

Animal products or by-products:

All animal products on farm (including but not limited to pelts and feed) and animal by-products (including to but not limited to manure and carcasses).

Things:

All **farm** vehicles, equipment, or machinery as well as outer-wear clothing and personal protective equipment worn when in close contact (**e.g., < 2m**) with farmed mink.

Terms and Conditions

The following terms and conditions apply with respect to this Quarantine Zone Order:

Animals, animal products or by-products, and things subject to the order must not leave the premise without express written by the Chief Veterinarian.

All persons authorized to enter the premises by the Chief Veterinarian must wear designated PPE and abide by designated biosecurity protocols (including but not limited to boot covers or boot dips, ensuring clothing worn while in close contact (e.g., < 2m) with farmed mink.

Daily logs of any people entering and exiting the premises (including but not limited to names, dates, times, and contact information).

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

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Additional Actions which Must be Taken	
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Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
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Authority for Quarantine Zone Order

This Order is issued pursuant to section 27 of the *Animal Health Act*.

Termination of Quarantine Zone Order

This Order terminates on the following date or in the following circumstances: (If no date or circumstance stated, refer to section 50 of the *Animal Health Act*. See Appendix A)

Contact Information

Name and contact information of **inspector** who made the Order:

Rayna Gunvaldsen
Rayna.Gunvaldsen@gov.bc.ca
 604-556-3013

Veterinarian or diagnostic laboratory contacted (if applicable):

Dan McDermott

Animal Health Centre

 Inspector

 Date

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE *ANIMAL HEALTH ACT*.

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Orders

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You may request a reconsideration of this order. A request for reconsideration must be in the form and manner required by the Chief Veterinarian.

Reconsideration

If you have additional relevant information which was not available when the inspector made the order you may request the issuing inspector to reconsider this order. The inspector may

- Vary, confirm, or rescind this order;
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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Call for records AGR-2020-07274

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 21, 2021 3:48:12 PM PST
Attachments: MinkOutbreakMinutes dec 5 pm.docx

Call for records for AGR-2020-07274

There is discussion of what happens normally to carcasses on IP1 in the minutes notes (first column, p.6). I think quite a lot of the rest of the document contains highly personal information on the IP and people on farm so not sure if it can be shared.

From: Clair, Veronic [BCCDC] <veronic.clair@bccdc.ca>

Sent: December 5, 2020 7:56 PM

To: Wong, Jason [BCCDC] <Jason.Wong@bccdc.ca>; Skowronski, Danuta [BCCDC] <Danuta.Skowronski@bccdc.ca>; Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Sterloff, Trish HLTH:EX <Trish.Sterloff@gov.bc.ca>; Choquette, Blair [FH] <Blair.Choquette@fraserhealth.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Millard, Timothy [FH] <Timothy.Millard@fraserhealth.ca>; Tyler, Ingrid Dr. HLTH:IN <ingrid.tyler@fraserhealth.ca>; Kerwin, Oona [FH] <Oona.Kerwin@fraserhealth.ca>; Parker, Robert Dr. <robert.parker@fraserhealth.ca>; Deo, Hermandeep [FH] <Hermandeep.Deo@fraserhealth.ca>; Pasco, Doug WCB:EX <Doug.Pasco@worksafebc.com>; Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Sekirov, Inna [BCCDC] <inna.sekirov@bccdc.ca>; Chan, Elaine [BCCDC] <elaine.chan@bccdc.ca>; Gill, Gurpreet [FH] <Gurpreet.Gill@fraserhealth.ca>; McDonald, Rosebelle WCB:EX <Rose.McDonald@worksafebc.com>; Nielsen, Mike WCB:EX <Mike.Nielsen@worksafebc.com>; Wilkinson, Victoria [FH] <Victoria.Wilkinson2@fraserhealth.ca>; Loadman, Susan [FH] <Susan.Loadman@fraserhealth.ca>; Corneil, Trevor [BCCDC] <trevor.corneil@bccdc.ca>; Gustafson, Reka [BCCDC] <reka.gustafson@phsa.ca>; Henry, Bonnie HLTH:EX <Bonnie.Henry@gov.bc.ca>; Masse, Jessica [FH] <Jessica.Masse@fraserhealth.ca>; XT:Krajden, Mel HLTH:IN <mel.krajden@bccdc.ca>; Yeong, Siu-Kae [BCCDC] <Siu-Kae.Yeong@bccdc.ca>; Chan, Elaine [BCCDC] <elaine.chan@bccdc.ca>

Subject: Re: Follow-up on Mink Farm

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Good evening,

please find attached draft minutes, slight modification in format compared to prior. Thanks Siu-Kae for drafting.

Best,

Veronic

From: Wong, Jason [BCCDC]

Sent: December 5, 2020 11:37 AM

To: Wong, Jason [BCCDC]; Clair, Veronic [BCCDC]; Skowronski, Danuta [BCCDC]; Gunvaldsen, Rayna AGRI:EX; sterloff, trish [BCCDC]; Choquette, Blair [FH]; Brian.radke@gov.bc.ca [EXT]; Fraser, Erin [BCCDC]; Millard, Timothy [FH]; Tyler,

Ingrid [FH]; Kerwin, Oona [FH]; Parker, Robert Dr.; Deo, Hermandeep [FH]; Pasco, Doug WCB:EX; Coombe, Michelle AGRI:EX [EXT]; Sekirov, Inna [BCCDC]; Chan, Elaine [BCCDC]; Gill, Gurpreet [FH]; McDonald, Rosebelle WCB:EX; mike.nielsen@worksafebc.com; Wilkinson, Victoria [FH]; Loadman, Susan [FH]; Corneil, Trevor [BCCDC]; Gustafson, Reka [BCCDC]; Henry, Bonnie [EXT]; Masse, Jessica [FH]; Kraiden, Mel [BCCDC]

Subject: Follow-up on Mink Farm

When: December 5, 2020 4:30 PM-5:30 PM.

Where: Zoom

Hello,

You are invited to a Zoom Virtual Health Visit.

Time: Dec 5, 2020 04:30 PM Pacific Time (US and Canada)

Topic: Follow-up on Mink Farm

Join the Virtual Health Visit

s.15

Meeting ID: s.15

Password:s.15

Can't join by computer or mobile device? Join by telephone:

1833 955 1088 (Toll-free)

-
- Visit our online instructions on how to get started with Virtual Health Visits using Zoom:
<http://www.phsa.ca/health-professionals/professional-resources/office-of-virtual-health/covid-19-virtual-health-toolkit/zoom-for-healthcare/patient-resources>
 - If you encounter any problems connecting to your Virtual Health Visit, you can call the helpdesk at 1-844-442-4433 (Toll-free) for support. Interpreting services can be requested during your call.

NOTE: This invitation should not be shared with others. It contains a unique link created for you.

Draft minutes of COVID Outbreak and Mink Meetings

Discussion/action

Dec 4th am

FH outbreak investigation, case and contact management

5 COVID-19 cases in mink farm workers in Chilliwack.

Earliest symptom onset was Nov28 for 3 of the cases indicating introduction was "likely and incubation period earlier at least, or a common family exposure"

On the farm there is a total of 9 workers, including 4 temporary foreign workers (likely spanish speaking). All are symptomatic

Fraser health nurses were interviewing cases this morning (Dec 4)

Higher probability that cases were exposed in community and not by mink. Testing of minks and WGS will inform this assessment

Veronic to resend PHAC case investigation form for COVID-19 in mink workers – done

Need for environmental exposure assessment on farm by EHO in collaboration with WorkSafe BC and Min of Ag. Advice needed on appropriate biosafety measures for EHOs and other that visit farm both to protect themselves as well as the mink

Updates from Dec 4th 4pm meeting

5 +ve cases and 6 pending test

s.22 plus someone else

Some live in same household but not all
All cases, and symptomatic individuals are currently in isolation

s.22

s.22

s.22

Estimates of 13 to 14,000 mink on farm

Onset dates, of known ones: Earliest Nov 28, Latest Nov 30.

FHA: unable to get in contact with owner.
Farm is now on voluntary lockdown, so no site visit was possible today. Mink were already fed today. But will need to be fed tomorrow. 1 person can manage work. s.22

s.22

FH (Blair) and Brian (WorkSafe) have been in touch. No staff currently on site

Erin to send the form to MAGRI, to make sure they know which one that is.

MAGRI to assess if has the info they need and though might be collected with perhaps a different form.

Updates 430pm Dec 5th meeting

s.22

s.22

Other results pending

FHA will communicate with site about isolation dates TBD due to rolling exposure and uncertain WGS strains. Workers cannot travel until isolation date if finished as determined by FHA.

Follow up meeting with everyone for updates on Monday Dec 7, 2020.

WorkSafe site visit today. Owner cannot locate COVID safety plan. Minks to be fed tonight by s.22 who will be using a respirator and goggles.

Many shared common areas.
In terms of space, it was not possible to maintain 2 m distance and only 1 m max was possible. No up-to-date logs of temperature.

Surgical masks being worn.

Discussion/action

Dec 4th am

Separate meeting planned for 12.30 on
Dec 4 MAGRI, FH, WS

All signs point to a high likelihood that everyone on farm who had contact with infected workers has COVID. Cases and their household members will all be instructed to isolate for 14 days. This presents challenges for animal care on farm.

Recommendation by Fraser Health to 'close the farm' and prevent any movements of live/dead animals or pelts to/from farm, stop pelting. This will be further discussed at meeting at 4pm Dec 4.

Culling is not being considered at this time.

Rayna G to speak with producer to discuss animal management contingencies and other related concerns (ie stage of pelting, and recommend to stop work other than work that truly needs to be conducted urgently).

Notification and communication

PHO, Min of Health, Min of Ag, WorkSafe, BCCDC have all been informed and are involved in response.

Updates from Dec 4th 4pm meeting

FH to conduct inspection of foreign farm worker residence

FH to inspect farm on Saturday together with WorkSafeBC.

Inspection will be informed by results on minks

As above, farm is in voluntary lockdown.

All positive cases are isolating.

Pelting has stopped for now.

Arrangements have been made for animals to be fed by s.22 of producer. There will be not contact between cases and this individual.

FH: case contacts have or will be notified

OB to be declared by FH (Ingrid)
-sent to Bonnie

Updates 430pm Dec 5th meeting

Respirators, N95 or equivalent to be used for all activities where minks are located.

Samples will need to be collected from any further dead minks. Dead minks will be composted.

MAGRI will lead about what activities are considered absolutely essential, and WorkSafe will determine how this can be done safely with appropriate PPE, and bring concerns back to this group as appropriate

Information to be shared tomorrow pm or later to the public. There has been a decision to not share the name of the affected farm.

**Discussion/action
Dec 4th am**

Updates from Dec 4th 4pm meeting

-up to Bonnie whether to report
-no reason for FH to do a public notification as appears to be reasonably well controlled at this point

BC CDC does not report publicly

Some outbreak not declared publicly are nonetheless shared in the media, from other sources

Communication with other farms: Very likely that farms will speak to each other about this.

MAGRI notified CFIA

Rayna to draft letter for BC mink producers. Purpose: inform that individuals associated with a BC mink farm have tested positive and to share latest recommendations on biosecurity (document from CFIA, with specific recommendation of what we recommend in BC)

Draft to be shared with group for comment, there are pros and cons of doing such a letter.

Rayna will inform Bonnie and Fraser Health before letter is distributed to producers, if letters is decided to be circulated

Updates 430pm Dec 5th meeting

Actions:

1. **FH communication drafting public communication for public dissemination similar to outbreak bulleting with high level information; to be circulated for comments as soon as feasible**
2. **FH draft public communication to be reviewed by PHSA, BCCDC, Ministry of Agriculture, Ministry of Health, feedback expected back to FH in early pm.**
3. **Erin will draft a letter for mink farms, by tomorrow morning. All mink farms need to be informed and reminded about biosafety protocol and proposal of human surveillance, as well as informed with similar info as will go in public communication -by end of morning**
4. **All parties: Review of letter by 3pm, send feedback back to Erin and Veronic.**
5. **No communication out before coordination of notification organized for industry and public notification in very similar timeframe**
6. **Ministry of Agriculture plans to communicate with the farms, about questions to be clarified, animal health, and animal surveillance further needed.**
7. **Mike and Doug will put together a list of mink farm locations and number of workers and send to BCCDC Dr. Veronic Clair; to facilitate planning of human**

**Discussion/action
Dec 4th am**

**Outbreak Lab investigation -
human**

Whole genome sequencing (WGS) of virus from human cases

Inna Sekirov to lead WGS at PH lab.

Additional PCR testing of farm workers and their contacts

More rapid results, and easier to track samples will be obtained if samples send directly to BC CDC for testing and WGS.

Fraser Health will coordinate as needed
Veronic Clair's billing number on the rec for tracking.

BC CDC to send pre-populated req for in the future

Serology: BCCDC to lead serological testing related to outbreak

Veronic Clair as ordering physician on requisition

Fraser Health and BC CDC to determine if best to have someone from BC CDC, or Fraser sent to collect the samples, or to send people to LifeLab and instruct Lifelabs to forward serology samples to BCCDC PHL

Updates from Dec 4th 4pm meeting

Fraser Health to provide PHN and demographic info on sequencing request form for the workers who have gone for testing already

Herman Deo (FH) to send to demographic info/sequencing request to Inna at BCCDC PHL

All symptomatic individuals associated with the farm were informed to get tested and most, if not all, have already done so.

Req were sent to FH with VC billing number and instructions to send samples to the BC CDC lab directly, for future testing

To use the new pre-populated req for future testing, even if sending workers to testing sites.

Discussed need for all confirmed and symptomatic people to get serological testing – not a priority, and not many asymptomatic for whom it would be relevant at this point – might not be as useful in this outbreak situation as in surveillance on other farms

Fraser Health doesn't have capacity to send nurses. Logistics of collecting sera. If needed at this point, Individuals need to transport themselves to private lab/testing sites with precautions.

Purpose of serological testing:

Useful for asymptomatic to assess prior immunity

Assist with farm operation (ie. return to work) if absolutely needed

Updates 430pm Dec 5th meeting

surveillance and communication with farms

WGS of humans samples already at BC CDC likely available by week of the 14th, animal soon after, as human sequencing will be prioritized; to sequence other samples as received and as needed

BC CDC lab will notify others about new human test results and WGS results

**Discussion/action
Dec 4th am**

OB Lab investigation - animal

Urgent testing of mink mortalities. Animal Health Centre (AHC) lab will conduct testing with confirmatory testing at the National Foreign Animal disease lab in Winnipeg.

Rayna G to communicate with producer to request submissions or collect samples as needed

Testing to be performed at AHC for virology
Samples to be sent to BC CDC lab for WGS

Potential for testing of manure was discussed. Unclear if methodology is ready/available for this

Min of Ag is exploring this with Natalie Prystajek's and colleagues at the PHL

Farm field investigation and management

No mink have tested positive in BC or Canada. But no active surveillance has yet been conducted. Animal surveillance is critical to understand whether transmission has occurred and if yes, what the WG sequence indicates on directionality of transmission

Updates from Dec 4th 4pm meeting

Assess whether this is first or second generation

Hold off on serology decision related to outbreak farm until next week

Samples from 5 minks being tested tonight by animal lab

If positive:

-samples need to be sent to NCFAD for confirmation
-duplicate sample collected, one for local animal lab and one for confirmatory testing to NCFAD
To do WGS, BC CDC can use the swabs and do not need the pcr extract, even after pcr extract done

5 samples won't be enough to rule-out infection amongst the minks, a broader surveillance system still needs to be put in place

Rayna to report results tonight (Dec 4)

Group will meet tomorrow morning (Dec5) if mink results are positive, at 10, otherwise Monday am

MAGRI to investigate if possible to send samples to BC CDC with the current batch or if will need to do it prospectively

Rayna spoke with owner

- s.22
- Contingency plan is in place, affected/symptomatic not going to care for animals
- Animals are not showing clinical signs
- They are perhaps mid-way through pelting
- Not sure when it started
- Still 10,000 to be pelted

Updates 430pm Dec 5th meeting

Awaiting positive confirmation by national lab. No public or other notification from MAGRI until that occurs; acting on the basis of suspect case at the moment (with non-negative results); implication for mink industry and exports country wide

MAGRI and BCCDC lab will connect offline about all the testing confirmation.

Goal to assess genetic variation in mink acquired SARS-CoV-2, now and during the course of the outbreak, as could mutate during the course of the outbreak

MAGRI to continue collect mortality samples for WGS and discuss with BC CDC lab further about extend of animal related viral sampling to assess mutations sufficiently

**Discussion/action
Dec 4th am**

Rayna G will also ask about increase in mortalities or presence of clinical signs compatible with SARS-Cov-2

Updates from Dec 4th 4pm meeting

- Plan now is that they will stop pelting until they are able to start again
- Lockdown: voluntary quarantine on his own. No animals moving onto or off, no pelts, no carcasses, no feed coming onto farm or leaving. they have a good stockpile of feed for now
- Carcasses are composted on site every day and covered with a sawdust cover to prevent scavengers from accesses
- They did not get mortalities today. Probably recently pelting (unsure of when they started?)
- Testing samples from 5 dead animals tonight at AHC lab
- Don't use cats as rodent control on this farm
- Unknown if there are pet cats in household
- Potential for feral cats; potential for access if cats get over fence. Sheds are open sided
- Density of wild mink considered low in the area

Composting is considered an adequate way of disposing of the carcasses in a biosecure manner, especially when onsite, not exposing other sites.

Remaining questions:

- composting of carcasses - time to virus inactivation?
- when did pelting start on farm?
- risk to/from any domestic or feral cats on the farm?

-wildlife considerations?

Inform MoE and FLNORD if mink test positive.

They are planning wildlife surveillance for COVID to be added to regular other surveillance of wild animal in the GVA, including of wild minks

Updates 430pm Dec 5th meeting

MAGRI to ask where the mortality samples collected originated from in term of geographical locations (all same area or different far apart ones)

Oregon is managing an outbreak with positive minks started 10 days ago, considering allowing pelting if 3 samples collected at least a week to two weeks apart are negative

MAGRI and others will research more about management of such outbreaks in jurisdiction where they have not culled the minks.

MAGRI, BCCDC and WorkSafe will meet for a preliminary discussion related to which circumstances, if any, under which safe resuming of pelting could occur, and time pressure related to that.

Discussion/action
Dec 4th am

Measures on other farms

To discuss communicating with them at a subsequent meeting, considering the urgency of dealing with the current outbreak

To discuss plan for that in subsequent meeting

Updates from Dec 4th 4pm meeting

Communication to all BC producers is being discussed as mentioned above

Updates 430pm Dec 5th meeting

Urgency expressed in relation to the need to ensure adequate biosafety and surveillance measures on other farms ASAP, with a goal to start enhanced surveillance in the week of Dec. 7th (communication addressed above)

BCCDC and FHA will work out logistics for human surveillance program of other farms.

BCCDC and FHA will meet to plan human surveillance for other farms.

MAGRI will continue planning for animal surveillance on other farms

Call for records - AGR-2020-07274

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 21, 2021 3:56:08 PM PST
Attachments: BC Mink Farms Location and Size 2020.docx, 2020-12-09 COVID Mink Planning DRAFT_MC.docx

Hi Julie

Here is another document from my emails for the call for records AGR-2020-07274. I found a reference to planning for appropriate carcass disposal in the table on p.4 of the '2020-12-09 COVID Mink Planning DRAFT_MC' document. It is also labelled as draft and confidential.

Cheers,
Michelle

From: Coombe, Michelle AGRI:EX
Sent: December 11, 2020 8:28 AM
To: Botkin, Clayton AGRI:EX <Clayton.Botkin@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Cc: Knox, Graham G AGRI:EX <Graham.Knox@gov.bc.ca>; Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>; Raymond, Mark AGRI:EX <Mark.Raymond@gov.bc.ca>; Hodson, Georgina AGRI:EX <Georgina.Hodson@gov.bc.ca>
Subject: RE: Mink COVID-19 Advanced Planning Scenario DRAFT

Hi Clayton

Thank you so much for putting this together on such short notice.

We do indeed have 10 active mink farms, all within the Fraser Valley. I've indicated the range of animals on farm within the document. It sounds like it would be helpful for planning purposes to have a very clear idea of numbers so I've also include a detailed break down on this that Julie provided to me.

s.13

Those are my thoughts for now. Please ask if you have any further questions!
Cheers,
Michelle

From: Botkin, Clayton AGRI:EX <Clayton.Botkin@gov.bc.ca>
Sent: December 10, 2020 3:47 PM
To: Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Cc: Knox, Graham G AGRI:EX <Graham.Knox@gov.bc.ca>; Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>; Raymond, Mark AGRI:EX <Mark.Raymond@gov.bc.ca>; Hodson, Georgina AGRI:EX <Georgina.Hodson@gov.bc.ca>
Subject: Mink COVID-19 Advanced Planning Scenario DRAFT

Hello Brian, Michelle and Rayna,

I have attached a draft of my initial collection of thoughts on 5 various scenarios related to our mink issue. Please focus on the latter half of the document, as that is what is applicable to our discussions. I am looking for your comments on what you might envision these scenarios posing, and things I may not have considered or missed. One of the big items that I would look for immediately is the number of mink farms (I understand that we licence 10), and the potential capacity of each farm so we can consider contingency planning for destruction and disposal.

This is not an official guidance document in any way, but a starting point to guide our response. Once I can get some numbers and a first review of this from you, I will share it with the destruction and disposal leads so they can begin their planning process for each of the scenarios.

s.13

I am happy to setup a call tomorrow to review this together if you wish.

Thanks,

Clayton Botkin PAg

Industry Specialist – Poultry & Regulated Markets

Sector Development Branch, BC Ministry of Agriculture

BC Fur Farm Location and Size 2020

Abbotsford (FH)	-	pelted out in 2019
FH Chilliwack	-	850 Male, 4000 Female (total = 5000)
FH Chilliwack	-	190 Male, 732 Female (total = 920)
FH Aldergrove	-	250 Male, 1000 Female (total = 1250)
FH Aldergrove	-	2925 Male, 11,700 Female (total = 14625)
FH Abbotsford	-	20 Male, 3900 Female (total = 3920)
FH Abbotsford	-	600 Male, 3800 Female (Total = 4400)
IH s.79	-	13 Male, 60 Female CHINCHILA (total = 73)
Surrey (FH)	-	pelted out in 2018
FH Aldergrove	-	375 Male, 1750 Female (total = 2125)
Fernie (IH)	-	pelted out in 2019
FH Aldergrove	-	8 Male, 30 Female (total = 38)
FH Langley	-	3500 Male, 14,000 Female (total = 175000)
FH Langley	-	1500 Male, 6000 Female (total = 7500)

13 Licensed Mink Farms, 1 Licensed Chinchilla Farm 10,231 Males, 46,972 Females

10 active mink farms, all in FH 10,218 males, 46,912 females = 57,130 adults, farms range in adult size from 38 adults to 17,500 adults, typically a thousand to a few thousand adults.

3 inactive mink farms

1 IH CHINCHILA farm, small

BR notes that prior to starting pelting population can be 4 to 5 times the size of the breeding population

Page 057 of 123 to/à Page 063 of 123

Withheld pursuant to/removed as

s.13

Call for records AGR-2020-07274

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 21, 2021 5:28:31 PM PST
Attachments: image002.jpg, image006.jpg, image003.jpg

Here is another one, which talks about shipping carcasses at the bottom. Obviously, also full of confidential information.

From: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: November 23, 2020 8:12 AM
To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Cc: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: RE: public health/mink/SARS-CoV-2

Good morning Dr. Rayna,

Those are my estimates between the two farms, however, there is some additional information to be aware of:

- s.79 15 workers. Farm 1 makes the food for both farms (and also provides food to s.79 farm) and transports it to Farm 2. There is Aleutian Disease on Farm 2, so I believe the family take additional precautions when they move between farms. Farm 2 is the only farm that commented about the difficulty they have in staying staffed up / workers not showing up for work consistently. This may mean that some workers travel over from Farm 1. However, the majority of the workers are at Farm 1 in the feed production area.
- s.79 – 25 – 35 workers. Again Farm 1 produces the food for all three farms. This family the workers go between Farm 1 and Farm 2 and I believe only the main operator goes to Farm 3 (farm with 30 mink).
- s.79 – 35 – 40 workers. Farm 1 produces the food for both. Majority of workers are situated at Farm 1, but there is some cross over between the two farms.
- s.79 – 10 workers.
- 10 workers. Only limited employees go into mink area. I believe the majority of the workers on this site are involved with processing the downed / dead cattle for pet food. However, the fact that workers go to various farms to pick up dairy cow carcasses is a possible spot for contamination. I have heard the rumour that several of the s.79 farmers in the Agassiz area have family members that have tested positive and the s.79 does pick up dead dairy cows in Agassiz.
- s.79 – 3 workers (I believe they've already slaughtered, they are the ones trying to ship carcasses to the US for pelting). Goes to the s.79 Farm 1 to pick up food.

Let me know if you need any other information or clarification.

Julie

(Marie) Julie Hughes
Compliance, Operations and Data Officer
British Columbia Ministry of Agriculture
1767 Angus Campbell Road, Abbotsford, BC V3G 2M3
Tel: 778-666-0560
Mariejulie.hughes@gov.bc.ca
www.gov.bc.ca/animalhealthcentre



Where ideas work



From: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Sent: November 20, 2020 3:37 PM
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Subject: RE: public health/mink/SARS-CoV-2

Sorry to pester on this – for the families with multiple farms,^{s.} for example, is that 15 workers per farm? Or 15 workers total split between the 2 farms, so ~7 workers per farm? If it's the latter, would these total workers move freely between the two farms, or are they mostly dedicated to an individual farm?
Trying to anticipate possible further questions, and perhaps the intent of why Veronic was asking.
Thanks!

From: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: November 19, 2020 1:35 PM
To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Subject: RE: public health/mink/SARS-CoV-2

Hi,

Yes, this is based on what we saw when we were on the farms. I think it may increase slightly during pelting, but will more likely drop off after pelting, until they get back into breeding season.

Julie

(Marie) Julie Hughes
Compliance, Operations and Data Officer
British Columbia Ministry of Agriculture
1767 Angus Campbell Road, Abbotsford, BC V3G 2M3
Tel: 778-666-0560
Mariejulie.hughes@gov.bc.ca
www.gov.bc.ca/animalhealthcentre



Where ideas work



From: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Sent: November 19, 2020 1:10 PM
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: RE: public health/mink/SARS-CoV-2

Thanks Julie – was this what we saw when we were on farm? Does this change during pelting?

From: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: November 18, 2020 1:15 PM
To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: RE: public health/mink/SARS-CoV-2

Hi,

Based on the numbers of workers I saw during inspections and the information I collected at that time, here are my estimates:

s.79

15 workers

s.79

- 25 – 35 workers
- | - 35 – 40 workers
- 10 workers
- 10 workers
- 3 workers (I believe they've already slaughtered, they are the ones trying to ship carcasses to the US for pelting)

Julie

(Marie) Julie Hughes
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Mariejulie.hughes@gov.bc.ca
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Where ideas work



From: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Sent: November 18, 2020 1:11 PM
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: FW: public health/mink/SARS-CoV-2

I didn't respond to Veronica with this yet, did you Brian? If not, Julie, can you help with these numbers?
Thank you,
Rayna

From: Clair, Veronica [BCCDC] <veronic.clair@bccdc.ca>
Sent: November 16, 2020 2:14 PM
To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Cc: Chan, Elaine [BCCDC] <elaine.chan@bccdc.ca>; Yeong, Siu-Kae [BCCDC] <Siu-Kae.Yeong@bccdc.ca>
Subject: RE: public health/mink/SARS-CoV-2

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Thank you very much Rayna. This is quite helpful.

I have a meeting with the BC CDC Public Health lab later on today (5pm) and would very much appreciate if I could get a better idea of the number of workers involved both during and after pelting. That has implication on the ease of doing human surveillance.

So, the number of workers on farms during pelting, do you know if it is hundreds per farms, or are we talking about 10 to 20 or so workers per farms during the pelting?
And in other times, are we talking less than 10, 10 -20, more than 20?

Thanks for any more insight you can provide.

Veronic

Dr. Veronic Clair, MD, MSc, CCFP, FRCPC, PhD
Physician Epidemiologist
BC Centre for Disease Control
veronic.clair@bccdc.ca

I respectfully acknowledge that I live and work on the unceded territory of the xʷməθkʷəy̓əm, Skwxwú7mesh, Stó:lō and Səlilwətaʔ/Selilwitulh Nations.

From: Gunvaldsen, Rayna AGRI:EX [<mailto:Rayna.Gunvaldsen@gov.bc.ca>]
Sent: Monday, November 16, 2020 2:05 PM
To: Fraser, Erin [BCCDC]; Brian.radke@gov.bc.ca [EXT]
Cc: Clair, Veronic [BCCDC]
Subject: RE: public health/mink/SARS-CoV-2

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Erin, et al: here are answers to the questions you posed

- Current status of pelting process. Is this now underway on mink farms? And how long will this take. Completed on some, underway on some, just about to start on others. Should be completed at all farms by the end of December.
- Further description of the types of PPE that are being used by mink workers. Will PPE use be any different in pelting process Gloves and masks (at time of inspection (Sept/Oct), non-medical disposable masks were being used), temperature checks of employees being conducted.
- Number of workers on farms during pelting/non-pelting time times? Varies by farm, some farms have reduced staff to essential workers only. More staff are required during pelting.
- are surge workers for pelting from the Fraser Health region or are they coming from other regions? Fraser Health
- What are the points of contact between mink and mink workers at pelting/non-pelting times? Non-pelting – during feeding, workers place food on tops of cages, no physical contact with animals unless there is a sick / dead animal, then the animal would be removed from the cage; small number of employees responsible for food distribution. During pelting – removal of each animal from their cage, grading of the pelt, placing of the animal in the CO cart, skinning of the animal after death; large number of employees involved in the process.
- Description of the pelting process to understand opportunities for aerosolizing procedures that may expose humans? Mink are removed from their cages, transported from the barn to the pelting area – usually a shed on the farm. Animals are placed into a CO chamber until death occurs. Animals are removed from the CO chamber, death is confirmed, skin is removed from the animal carcass. The shed where this occurs is not overly large, humans are in close contact with one another at this point in the process.
- Where does pelting occur? On the farms? On the farms.
- Is there any relationship between mink farms in BC with other mink farms outside of BC in Canada? US? Or international? No, however the pelts are shipped internationally.
- Have you noted any evidence from jurisdictions with mink outbreaks where the virus has been detected on fur? Evidence, no. From the rapid risk analysis: Before being cleaned, the pelts of infected animals

would probably be contaminated with urine, feces, respiratory droplets and saliva, and employees/contractors often have close contact with the fur soon after euthanasia.

Key uncertainties include: extent of pelt contamination in symptomatic and asymptomatic animals (Symptomatic animals would likely have more virus on the fur/pelt), virus survival throughout the pelt-cleaning process and potential cross-contamination of pelt

the risk is negligible based on virus environmental survivability especially on non-hard surfaces

- Has there been any consideration to developing a mink worker registry so quick contact is possible? As the farms are registered, this may already be addressed but would just need to ensure that all employees can be reached if needed. This could be created, however, as noted, all mink farms are registered with WorksafeBC.

Rayna

From: Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>

Sent: November 11, 2020 11:25 AM

To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>

Cc: Clair, Veronic [BCCDC] <veronic.clair@bccdc.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>

Subject: public health/mink/SARS-CoV-2

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Hi Rayna and Brian,

Veronic, Danuta and I met yesterday to discuss public health issues/recommendations related to SARS-CoV-2 and mink in advance of our meeting on Nov 18th. Input from Fraser Health will be sought but they stretched with response to surging COVID cases at the moment.

There are few items where more information is requested to help with PH risk assessment and inform PH recommendations:

- Current status of pelting process. Is this now underway on mink farms? And how long will this take
- Further description of the types of PPE that are being used by mink workers. Will PPE use be any different in pelting process
- Number of workers on farms during pelting/non-pelting times?
- Are surge workers for pelting from the Fraser Health region or are they coming from other regions?
- What are the points of contact between mink and mink workers at pelting/non-pelting times?
- Description of the pelting process to understand opportunities for aerosolizing procedures that may expose humans?
- Where does pelting occur? On the farms?
- Is there any relationship between mink farms in BC with other mink farms outside of BC in Canada? US? Or international?
- Have you noted any evidence from jurisdictions with mink outbreaks where the virus has been detected on fur?
- Has there been any consideration to developing a mink worker registry so quick contact is possible? As the farms are registered, this may already be addressed but would just need to ensure that all employees can be reached if needed.

In addition, Veronic has reached out to the public health lab to explore potential options for voluntary screening mink workers and their families (e.g. asymptomatic testing, serology).

All the best,

Erin Fraser, DVM MSc

Public Health Veterinarian
Communicable Diseases & Immunization Service
BC Centre for Disease Control

Clinical Assistant Professor
School of Population and Public Health
Faculty of Medicine, UBC

655 West 12th Ave
Vancouver, BC V5Z 4R4
Tel. 778-677-7790
www.bccdc.ca

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

Call for records AGR-2020-07274

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 21, 2021 5:29:45 PM PST

From: Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Sent: November 26, 2020 3:29 PM
To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Turek, Jake AGRI:EX <Jake.Turek@gov.bc.ca>
Subject: WCR and mink disposal

I contacted West Coast Reduction. They render mink carcasses, and are willing to accept SARS-CoV-2 infected mink carcasses. All mink carcasses (infected or not) go to the Calgary SRM plant.
Only poultry, fish and hogs are rendered in our local WCR plants.
As they are audited by CFIA, they'd want to ensure the CFIA was onboard with the process.
If service is required, the contact provided was Plant Superintendent, Doug Davidson, via their 1-866-337-3355.

Brian

Call for records AGR-2020- 07274

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 21, 2021 5:36:41 PM PST
Attachments: 1-s2.0-S1438463918310022-main.pdf

Hi Julie – I'm not quite sure if this email chain applies to what the requester is looking for or not. It does discuss composting on farm although not specifically which farm or where exactly. Sending it just in case.

From: Schwartz, Daniel (CFIA/ACIA) <daniel.schwartz@canada.ca>
Sent: December 14, 2020 8:43 AM
To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Dahiya, Indervesh (CFIA/ACIA) <indervesh.dahiya@canada.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Flockhart, Logan (PHAC/ASPC) <logan.flockhart@canada.ca>; Buck, Peter (PHAC/ASPC) <peter.buck@canada.ca>; Tataryn, Joanne (PHAC/ASPC) <joanne.tataryn@canada.ca>; Ellis, Andrea (CFIA/ACIA) <andrea.ellis@canada.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Muchaal, Pia (PHAC/ASPC) <pia.muchaal@canada.ca>
Subject: RE: aerosolization of virus during carcass composting?

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Hi All

This article provides a review of bioaerosols and composting. It does not address carcasses, it primarily looks at other waste products. There certainly is mention of bioaerosol generation from some soil borne bacteria and fungi. However, that will exist regardless of whether carcasses are present or not. One article I looked at reiterated my thoughts that building and turning compost piles and activities that generate particulates would be higher risk activities.

Did not appear to be risks downwind or close to composting facilities. I would keep in mind that our primary concern would be virus – little is likely to be generated from the carcass, the bigger risk would likely be the manure. Taking appropriate measures such as PPE and other engineering controls, damping down the piles etc. should be sufficient. One article I looked at determined that working inside an enclosed cab of farm machinery during building the compost pile significantly reduced exposure to bacteria and fungi.

As such, it may be worth putting a short list of mitigation measures together to protect the worker(s) during building them.

Best regards
Daniel

From: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Sent: 2020-12-11 2:21 PM
To: Dahiya, Indervesh (CFIA/ACIA) <indervesh.dahiya@canada.ca>; Schwartz, Daniel (CFIA/ACIA) <daniel.schwartz@canada.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Flockhart, Logan (PHAC/ASPC) <logan.flockhart@canada.ca>; Buck, Peter (PHAC/ASPC) <peter.buck@canada.ca>; Tataryn, Joanne (PHAC/ASPC) <joanne.tataryn@canada.ca>; Ellis, Andrea (CFIA/ACIA) <andrea.ellis@canada.ca>
Cc: Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: RE: aerosolization of virus during carcass composting?

Thanks Indervesh. Yes, certainly. My understanding is that ensuring carcasses are covered with a dry carbon source, like sawdust, helps to prevent scavengers from being attracted, but the more stringent controls that may need to be required in this case are still being worked through. My foremost concern is with birds, like crows, as the heap is in a covered shelter but is not completely enclosed.

Rayna

From: Dahiya, Indervesh (CFIA/ACIA) <indervesh.dahiya@canada.ca>
Sent: December 11, 2020 2:17 PM
To: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Schwartz, Daniel (CFIA/ACIA) <daniel.schwartz@canada.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Flockhart, Logan (PHAC/ASPC) <logan.flockhart@canada.ca>; Buck, Peter (PHAC/ASPC) <peter.buck@canada.ca>; Tataryn, Joanne (PHAC/ASPC) <joanne.tataryn@canada.ca>; Ellis, Andrea (CFIA/ACIA) <andrea.ellis@canada.ca>
Cc: Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: RE: aerosolization of virus during carcass composting?

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Quite likely you already have this in mind, preventing access of wildlife to carcasses/manure/compost piles.

Thanks

From: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Sent: 2020-12-11 5:01 PM
To: Schwartz, Daniel (CFIA/ACIA) <daniel.schwartz@canada.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Dahiya, Indervesh (CFIA/ACIA) <indervesh.dahiya@canada.ca>; Flockhart, Logan (PHAC/ASPC) <logan.flockhart@canada.ca>; Buck, Peter (PHAC/ASPC) <peter.buck@canada.ca>; Tataryn, Joanne (PHAC/ASPC) <joanne.tataryn@canada.ca>; Ellis, Andrea (CFIA/ACIA) <andrea.ellis@canada.ca>
Cc: Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: RE: aerosolization of virus during carcass composting?

Thank you so much Daniel.

From: Schwartz, Daniel (CFIA/ACIA) <daniel.schwartz@canada.ca>
Sent: December 11, 2020 2:00 PM
To: Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Dahiya, Indervesh (CFIA/ACIA) <indervesh.dahiya@canada.ca>; Flockhart, Logan (PHAC/ASPC) <logan.flockhart@canada.ca>; Buck, Peter (PHAC/ASPC) <peter.buck@canada.ca>; Tataryn, Joanne (PHAC/ASPC) <joanne.tataryn@canada.ca>; Ellis, Andrea (CFIA/ACIA) <andrea.ellis@canada.ca>
Cc: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>
Subject: RE: aerosolization of virus during carcass composting?

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi All
A few quick thoughts

Composting has been used effectively to inactivate other corona viruses include PEDv on livestock premises and will and can be effective for SARS-CoV-2.

Generation of aerosols should be minimal, there is more likely to be the generation of virus associated with particulate material including feces, or sawdust and shavings however, this can be minimized. If the manure and carcasses are slightly dampened during the building of the composting that will assist in reducing particulates that could be generated. They should avoid building or turning compost piles on windy days and wear appropriate PPE, however, as mink carcasses will have the pelts removed, there will be minimal contamination of the subcutaneous tissues of the mink with virus.

The surfaces of the carcass are likely to be somewhat sticky due to the subcutaneous tissue fat and muscle that are more likely to trap virus and particles than generate them.

The manure has likely been accumulating for some time so the pathogen load of virus in the manure is likely to have been diluted to some degree by the volume.

As such, if they can moisten down the manure slightly and avoid building compost piles on windy days, wear appropriate PPE, the risk from virus bound to particulates should be minimized.

Best regards

Daniel

From: Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>

Sent: 2020-12-11 1:46 PM

To: Dahiya, Indervesh (CFIA/ACIA) <indervesh.dahiya@canada.ca>; Schwartz, Daniel (CFIA/ACIA) <daniel.schwartz@canada.ca>; Flockhart, Logan (PHAC/ASPC) <logan.flockhart@canada.ca>; Buck, Peter (PHAC/ASPC) <peter.buck@canada.ca>; Tataryn, Joanne (PHAC/ASPC) <joanne.tataryn@canada.ca>; Ellis, Andrea (CFIA/ACIA) <andrea.ellis@canada.ca>

Cc: 'Gunvaldsen, Rayna AGRI:EX' <Rayna.Gunvaldsen@gov.bc.ca>; Brian.radke@gov.bc.ca [EXT] <Brian.radke@gov.bc.ca>

Subject: aerosolization of virus during carcass composting?

Hi all,

Question has come to Rayna on the risk of the virus becoming aerosolized from carcasses being composted?

Any evidence on this?

Thanks in advance for any assistance you can provide

All the best,

Erin Fraser, DVM MSc

Public Health Veterinarian

Communicable Diseases & Immunization Service

BC Centre for Disease Control

Clinical Assistant Professor

School of Population and Public Health

Faculty of Medicine, UBC

655 West 12th Ave

Vancouver, BC V5Z 4R4

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Bioaerosol exposure from composting facilities and health outcomes in workers and in the community: A systematic review update

Sarah Robertson^{a,b,1}, Philippa Douglas^{b,c,1,*}, Deborah Jarvis^c, Emma Marczylo^{a,b}

^a Centre for Radiation, Chemical and Environmental Hazards, Public Health England, Harwell Campus, Didcot, Oxfordshire, UK

^b National Institute for Health Research Health Protection Research Unit (NIHR HPRU) in Health Impact of Environmental Hazards, UK

^c National Heart and Lung Institute, MRC PHE Centre for Environment and Health, Imperial College London, London, UK

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From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 21, 2021 5:38:49 PM PST
See point #7

From: Clair, Veronic [BCCDC] <veronic.clair@bccdc.ca>

Sent: December 11, 2020 3:37 PM

To: Choquette, Blair [FH] <Blair.Choquette@fraserhealth.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Sterloff, Trish HLTH:EX <Trish.Sterloff@gov.bc.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Millard, Timothy [FH] <Timothy.Millard@fraserhealth.ca>; Tyler, Ingrid Dr. HLTH:IN <ingrid.tyler@fraserhealth.ca>; Kerwin, Oona [FH] <Oona.Kerwin@fraserhealth.ca>; Parker, Robert Dr. <robert.parker@fraserhealth.ca>; Deo, Hermandeep [FH] <Hermandeep.Deo@fraserhealth.ca>; Pasco, Doug WCB:EX <Doug.Pasco@worksafebc.com>; 'rosebelle.mcdonald@worksafebc.com' <rosebelle.mcdonald@worksafebc.com>; Sekirov, Inna [BCCDC] <inna.sekirov@bccdc.ca>; Chan, Elaine [BCCDC] <elaine.chan@bccdc.ca>; Skowronski, Danuta [BCCDC] <Danuta.Skowronski@bccdc.ca>; McDonald, Rosebelle WCB:EX <Rose.McDonald@worksafebc.com>; Corneil, Trevor [BCCDC] <trevor.corneil@bccdc.ca>; Gill, Gurpreet [FH] <Gurpreet.Gill@fraserhealth.ca>; Brownrigg, Bobbi [BCCDC] <Bobbi.Brownrigg@bccdc.ca>; Arkles Schwandt, Jillian [BCCDC] <Jillian.Schwandt@bccdc.ca>; Nielsen, Mike WCB:EX <Mike.Nielsen@worksafebc.com>; Yeong, Siu-Kae [BCCDC] <Siu-Kae.Yeong@bccdc.ca>; Newhouse, Emily [FH] <Emily.Newhouse@fraserhealth.ca>

Cc: Schwantje, Helen FLNR:EX <Helen.Schwantje@gov.bc.ca>; Masse, Jessica [FH] <Jessica.Masse@fraserhealth.ca>; Wilkinson, Victoria [FH] <Victoria.Wilkinson2@fraserhealth.ca>; Loadman, Susan [FH] <Susan.Loadman@fraserhealth.ca>; Ofosuhene, Ophelia [FH] <Ophelia.Ofosuhene@fraserhealth.ca>; van Lierop, Rachia WCB:EX <Rachia.VanLierop@worksafebc.com>; Van Der Westhuizen, Amanda [FH] <Amanda.VanDerWesthuizen@fraserhealth.ca>

Subject: pelting recommendation

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Hi,

Please see below what will be communicated to the farm owner.

I hope you all have a good week-end.

Veronic

Recommendations and Requirements for Pelting at^{s.79}

Pelting may proceed under the following conditions:

1. Appropriate PPE are used and work safety procedures are developed, considered satisfactory by Worksafe, and implemented adequately
 - a. It is shown through public health inspection that adequate PPE is available and all workers are adequately trained in its appropriate use. Operator to book inspection with FH prior to starting pelting by contacting <Blair.Choquette@fraserhealth.ca>
2. All individuals who participate in pelting must isolate on site for 14 days after the last day of pelting
 - a. No currently unexposed individual is allowed to come on site to support pelting (ie no new staff)
 - b. It is recommended that the TFW on site do not participate in pelting given the results of their COVID testing
 - i. Any TFW participating in pelting needs to have a consent conversation, including advocate representation from their Consulate, and consent to 14 day isolation.
3. Pelting should be done in an outdoor area if possible. This area may be tented.

- a. If this is not possible, doors and windows of pelting area to be open at all times to maximize ventilation
- 4. Animal samples to be collected according to Min Ag specifications
- 5. All materials related to pelting to remain onsite, as per Min Ag specification.
- 6. Option to check serology (ie. may provide reassurance of individual immunity to COVID strain) should be offered to all workers involved, but is not required for pelting to proceed.
- 7. Comply with Ministry of Environment requirements for disposal of infected animals by-products including manure and carcasses.

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s.13 ; s.14

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s.13 ; s.14 ; s.22

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s.13 ; s.14

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s.14

Call for records AGR-2020-07274

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 21, 2021 5:41:43 PM PST

Also not sure if this applies - it talks about carcass storage in our lab but not disposal directly...

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

From: Himsworth, Chelsea AGRI:EX <Chelsea.Himsworth@gov.bc.ca>
Sent: December 5, 2020 2:58 PM
To: XT:Krajden, Mel HLTH:IN <mel.krajden@bccdc.ca>
Cc: Sekirov, Inna [BCCDC] <inna.sekirov@bccdc.ca>; Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Fraser, Erin [BCCDC] <Erin.Fraser@bccdc.ca>; Radke, Brian AGRI:EX <Brian.Radke@gov.bc.ca>; Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Joseph, Tomy AGRI:EX <Tomy.Joseph@gov.bc.ca>
Subject: Re: Mink samples

FYI re sampled all mink both oral and nasal turbinates (previous samples were oral only). At least two had very snotty noses - E and C interestingly enough.

Sent from my iPhone

On Dec 5, 2020, at 12:24 PM, Krajden, Mel [BCCDC] <Mel.Krajden@bccdc.ca> wrote:

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The ones with Ct values 30 and below should be able to be sequenced.

Sent from my iPhone

On Dec 5, 2020, at 12:11 PM, Himsworth, Chelsea AGRI:EX <Chelsea.Himsworth@gov.bc.ca> wrote:

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Swabs A, B, D and E tested non-negative with a Cts 28.9, 29.4, 35 and 30 respectively. Sample C tested negative. Mel and Inna - let us know if these will work. Tomy - are the samples already aliquoted so that we could send a set to the cdc?

If we need to take fresh samples it will be more involved to do on the weekend with no tech support. s.22 yesterday so I don't know if they are frozen or where they are in our carcass storage. Let me know.

Sent from my iPhone

On Dec 5, 2020, at 11:22 AM, Krajden, Mel [BCCDC] <Mel.Krajden@bccdc.ca> wrote:

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I believe that we shared the PCR procedures with MAgri. If you are using our test it would good to know the Ct values as that would give us a sense of the yield on WGS. It would good to get the human and mink WGS done as quickly as possible. Mel

Sent from my iPhone

On Dec 5, 2020, at 11:18 AM, Sekirov, Inna [BCCDC] <inna.sekirov@bccdc.ca> wrote:

If there's an option to cab the samples to us over the weekend, we could get started sooner on figuring out if they are suitable for WGS.

There are cabs that are certified for TDG transport- I could put you in touch with someone who knows more about it, if needed

Inna Sekirov, MD, PhD, FRCPC
Medical Microbiologist
BCCDC Public Health Laboratory

Sent from my iPhone

On Dec 5, 2020, at 10:47 AM, Himsworth, Chelsea AGRI:EX <Chelsea.Himsworth@gov.bc.ca> wrote:

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We can necropsy the mink on Monday and take lots of samples. Should be no shortage of material. Just let me know what you want. Happy to help! Chelsea PS if it would really make a difference getting samples sooner I could go into the lab today but not sure how I would get samples to the CDC?

Sent from my iPhone

On Dec 5, 2020, at 10:37 AM, Sekirov, Inna [BCCDC] <inna.sekirov@bccdc.ca> wrote:

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also including Michelle, Erin and Brian.

From: Sekirov, Inna [BCCDC]
Sent: Saturday, December 5, 2020 10:34 AM
To: Krajden, Mel [BCCDC]; Himsworth, Chelsea AGRI:EX [EXT]
Cc: 'Gunvaldsen, Rayna AGRI:EX'
Subject: Re: Mink samples

Hi Chelsea and Rayna,

I've also asked yesterday if it's possible to send us one of the duplicate swabs over the weekend, in which case we'll be able to test for confirmation and it will also expedite the WGS process, provided that there are sufficient quantities

of virus on the swabs.

Also, if the farm is going to be accessed today for feeds, etc., perhaps the farmers could collect environmental swabs from the cages, for additional testing, which we could also do this weekend if the samples are sent over (if the animal lab is closed or doesn't have protocols for environmental swabs).

If it would be helpful to discuss logistics over the phone, feel free to call me at ^{s.22}

Inna

From: Krajden, Mel [BCCDC]
Sent: Saturday, December 5, 2020 10:31 AM
To: Himsworth, Chelsea AGRI:EX [EXT]
Cc: Sekirov, Inna [BCCDC]
Subject: Re: Mink samples

Chelsea, I think splitting the samples and sending us a portion for PCR and WGS makes sense.

Chelsea, Rayna Gunvaldsen is on the call but I don't have her email yet. We would be willing to test the split mink samples and do additional testing if requested by MAGRI and do the WGS but results would be under the full control MAGRI.

Mel

From: Himsworth, Chelsea AGRI:EX <Chelsea.Himsworth@gov.bc.ca>
Sent: December 5, 2020 9:59 AM
To: Krajden, Mel [BCCDC]
Subject: Mink samples

EXTERNAL SENDER. If you suspect this message is malicious, please forward to spam@phsa.ca and do not open attachments or click on links.

Turn out sample not shipping to CFIA till Monday. Shall we ship you duplicates? Chelsea

Sent from my iPhone

Call for records AGR-2020-07274

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 21, 2021 5:42:10 PM PST
Attachments: Quarantine Zone Order_Dec 5 2020^{s.79} v2.docx

I believe you already have this document but not sure if you need the email chain too

From: Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>
Sent: December 5, 2020 2:22 PM
To: Anderson, Arlene AGRI:EX <Arlene.Anderson@gov.bc.ca>
Cc: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>
Subject: Draft Quarantine order

Hi Arlene, here's are draft for the quarantine order. Thanks, Ursula

Ursula Viney, CPA, CGA
Executive Director
Plant and Animal Health Branch
Ministry of Agriculture, Food and Fisheries



Ministry of
Agriculture

Plant and Animal Health Branch
1767 Angus Campbell Rd
Abbotsford BC V3G 2M3
Ph: (604) 556-3093
Fax: (604) 556-3015
Toll Free: 1-877-877-2474

Animal Health Act – Quarantine Zone Order

Area of Quarantine Zone
This Order establishes a Quarantine Zone on the following area: s.79
Reason for Order
The Chief Veterinarian reasonably believes, based on the results of a diagnostic examination, a Reportable Disease is present. Name of Reportable Disease giving rise to this Order: SARS-CoV-2
Person(s) who must Comply with this Order
The following individuals or classes of individuals must comply with this Order: All persons entering or exiting the premise, working, or living on the premise.
Date this order is issued: _____ , 20____
Date this order takes effect, if different: _____ , 20____
Reference Number:

The person(s) subject to this Order must comply with this Order

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Information of Person(s) and Place(s) Subject to Order
<p>Name of person(s) who is subject to this order:</p> <p>s.79</p>
<p>Contact information:</p> <p>s.79</p>
<p>Address(es) of premises this order relates to, if applicable):</p> <p>s.79</p>
<p>Premises identification account number(s):</p> <p>Premises identification number(s):</p>
<p>Contact information of owner of premises, if different from above:</p>
<p>Contact information for operator of premises, if different from above:</p>

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

The following are subject to this Quarantine Zone Order:
Species of Animals:

All animals on the premise that are not wildlife or feral animals, including but not limited to mink, domestic ferrets, domestic cats, and domestic dogs.

Animal products or by-products:

All animal products on farm (including but not limited to pelts) and animal by-products (including to but not limited to feed, manure and carcasses).

Things:

All vehicles, equipment, or machinery as well as outerwear clothing and personal protective equipment worn when in close contact (i.e., < 2m) with farmed mink.

Terms and Conditions

The following terms and conditions apply with respect to this Quarantine Zone Order:

Animals, animal products or by-products, and things subject to the order must not leave the premise without express written consent by the Chief Veterinarian.

All persons entering the premises must wear personal protective equipment (PPE) and abide by biosecurity protocols as designated by the Chief Veterinarian.

Outerwear clothing and personal protective equipment worn while in close contact (i.e., < 2m) with farmed mink must remain on or be disposed of on the premise, unless directed otherwise in writing by the Chief Veterinarian.

Daily logs of any people entering and exiting the premises (including but not limited to names, dates, times of entry/exit, and contact information) must be maintained for the duration of the Order.

Testing of animals, animal products, animal by-products, things and the environment in which they reside must be performed as designated by the Chief Veterinarian to determine the infection status of these subjects.

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Additional Actions which Must be Taken	
Action:	
Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
Notes:	
Action:	
Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
Notes:	
Action:	
Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
Notes:	
Action:	
Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
Notes:	

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Action:	
Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
Notes:	
Action:	
Date by which action must be complete, if applicable:	
Completed? Y/N	Inspector Initial and Date
Notes:	
Action:	
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Completed? Y/N	Inspector Initial and Date
Notes:	
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Completed? Y/N	Inspector Initial and Date
Notes:	

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IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Additional Comments

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE *ANIMAL HEALTH ACT*.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Authority for Quarantine Zone Order

This Order is issued pursuant to section 27 of the *Animal Health Act*.

Termination of Quarantine Zone Order

This Order terminates on the following date or in the following circumstances: (If no date or circumstance stated, refer to section 50 of the *Animal Health Act*. See Appendix A)

Contact Information

Name and contact information of inspector who made the Order:

Rayna Gunvaldsen
Rayna.Gunvaldsen@gov.bc.ca
 604-556-3013

Veterinarian or diagnostic laboratory contacted (if applicable):

Animal Health Centre
 1767 Angus Campbell Road
 Abbotsford, BC V3G 2M3

 Inspector

 Date

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE *ANIMAL HEALTH ACT*.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Orders

You have been issued an order. Failure to comply with an order is an offense under s. 81 of the *Animal Health Act*. If this order is posted, you must not remove, alter, or deface it. If an inspector believes that you are not adequately complying with this order, an inspector is authorized to enter into the place described in this document and take action to ensure this order is carried out. You are liable for all costs of any work that the inspector authorizes to be carried out to ensure compliance with this order.

You may request a reconsideration of this order. A request for reconsideration must be in the form and manner required by the Chief Veterinarian.

Reconsideration

If you have additional relevant information which was not available when the inspector made the order you may request the issuing inspector to reconsider this order. The inspector may

- Vary, confirm, or rescind this order;
- Delay the date the order takes effect or suspend the order, if this delay will not be a risk to animal or public health; or,
- Reject your request if the information was available or is not relevant.

This order continues to be in effect while the inspector reconsiders it unless the inspector agrees in writing to suspend it. You will receive written reasons for the reconsideration decision. You may not request a second reconsideration.

Appendix A

Section 50 of the *Animal Health Act* states

50 An order ceases to have effect on the date or in the circumstances stated in the order, or if no date or circumstances are stated, as follows:

- (a) If an order is served by posting the order, or notice of the order, in or on a place, on the date the order or notice is removed from the place by the minister or the inspector who made the order, or by a person acting under the direction of either of them;
- (b) If an order is served by publishing the order, or notice of the order, on the date the inspector who made the order publishes a notice that the order has been terminated;
- (c) If an order is made under section 41 (m) [*general orders*], on the date the person subject to the order provides evidence of compliance as required by the order;
- (d) In any other case, on the date the inspector who made the order provides notice by any means to the person subject to the order that the order is terminated.

THE INFORMATION REQUESTED ON THIS FORM IS COLLECTED AND MAY BE DISCLOSED UNDER THE AUTHORITY OF PART 2 AND 3 OF THE ANIMAL HEALTH ACT.

IF YOU HAVE ANY QUESTIONS ABOUT THE COLLECTION AND USE OF THIS INFORMATION, PLEASE CONTACT THE MINISTRY OF AGRICULTURE.

Call for records AGR-2020-07274

From: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>
To: Hughes, Marie Julie AGRI:EX <MarieJulie.Hughes@gov.bc.ca>
Sent: January 22, 2021 8:55:52 AM PST

Here is another one – it discusses potential disposal of carcasses but not location specifically

From: Botkin, Clayton AGRI:EX <Clayton.Botkin@gov.bc.ca>
Sent: December 15, 2020 1:49 PM
To: Coombe, Michelle AGRI:EX <Michelle.Coombe@gov.bc.ca>; Forbes, Christina D AGRI:EX <Christina.Forbes@gov.bc.ca>
Cc: Gunvaldsen, Rayna AGRI:EX <Rayna.Gunvaldsen@gov.bc.ca>; Knox, Graham G AGRI:EX <Graham.Knox@gov.bc.ca>; Viney, Ursula E AGRI:EX <Ursula.Viney@gov.bc.ca>
Subject: Surveillance (Ops) In Mink - Planning & Logistics

Meeting Notes – December 15, 2020 – Surveillance

- Public health priorities – mitigating potential mutation (worst case scenario impacts vaccine efficacy)
- Agriculture Priorities:
 - Release from quarantine
 - Preservation of saleable product
- Infected farm – 5 mink/week of routine mortality (to start)
 - Post-release – 60 mink/building routinely (target)
- Other mink farms
 - Monitoring needed prior to removing pelts from farms
 - HLTH order mandated unaffected farms to do some level of testing
 - Likely about 15 mortalities per farm from farms with >4000 animals (potentially every 15 animals – call for a scheduled pickup)
 - Smaller farms are proportionate
- Wildlife Monitoring
 - Surveillance component needs to be considered on-site
 - AGRI order restricts activities on-site, so AGRI would need to permit activities on-farm
- Protocols
 - Approve internally Michelle recommends to Rayna, sent to Tomy & Erin, then to Command with Rayna's recommendations.
 - Command forwards to external agencies for input, review and approval with approval timeline preferences.
- Epi questionnaire
 - To explore risk or biosecurity incursion points
- Develop release points for AGRI quarantine order. These should follow the same approval process as the surveillance protocols.

Actions for follow-up:

- Disposal of 200 carcasses on-farm to be removed, desire to be tested – not a top priority, but needs action
- Consider setting up a quarantine site off-farm for pelts to preserve their value
 - All mink farms are currently required to hold products on farm
- Rayna to review communications on Wildlife Surveillance – setup meeting with FLNRORD to action, Rayna include information sharing protocols on e-mail string Clayton sent on Tuesday morning
- Lab Liaison to confirm protocols are acceptable in AGRI – Michelle to forward to Rayna, to seek her approval.
- Share protocols with WorkSafe BC, HLTH for their approval following endorsement of Ops Chief and Command.
- Clayton and Ursula to setup producer meeting, include Michelle to present surveillance plan to those on the call.
 - Ursula needs contact info for producer lead to share with Clayton

Thanks,

Clayton Botkin PAg

Industry Specialist – Poultry & Regulated Markets

Sector Development Branch, BC Ministry of Agriculture, Food and Fisheries