

Response to the quagga infested boat 'Sweetgrass' - Timeline and lessons learned

Matthias Herborg, Ministry of Environment

TIMELINE:

Wednesday, March 12, 2014

- Matthias Herborg received notification on Wednesday morning of a commercially hauled boat going through the Idaho to BC. The notification was forwarded as part of standard notification procedures by the Idaho Dept of Transport. Additional information by Tom Woolf, Idaho Dept. of Agriculture, Aquatic Invasive Species Specialist, stated that the boat has been inspected at an Idaho inspection station and is considered to be clean.
- Matthias Herborg followed up with the Hauler Cardinal Boat Movers around lunchtime on Wednesday and explained him the risk of zebra and quagga mussel introduction by commercially hauled boats and the hauler seemed knowledgeable and stated that his company only hauls clean boats as a policy.
- At approximately 6:15 p.m., Canada Border Services Agency (CBSA) staff at the Osoyoos border crossing observed what appeared to be invasive quagga or zebra mussel shells on the same 13.4-metre (44-foot) power boat being transported by a commercial hauler (Cardinal Boat Movers) from Texas to a new owner in B.C.
- Using the RAPP line, CBSA staff contacted conservation officer Jeff Hanratty (Penticton), who then contacted aquatic Ministry of Environment invasive species co-ordinator Matthias Herborg.
- There is no federal legislation that allows for the boat to be stopped at the border and sent back to the United States.
- The boat was parked overnight at the border because the commercial boat hauler couldn't get a pilot car to help transport the boat to its destination (a Kelowna marina) until the following morning.
- The CBSA agent sent pictures of the mussels attached to the boat to Hanratty and Herborg at 8:30 pm. Based on the pictures Herborg confirmed that they were either zebra or quagga mussels present on the bow thruster and the prop shaft mount of the boat.
- Matthias Herborg forwarded the pictures to Tom Wolf in Idaho to inform him of the mistake of the inspection crew.
- The hauler would return on Thursday morning when a pilot car would be available to accompany his truck to Kelowna.

Thursday, March 13, 2014

- Herborg spoke with the hauler at 8am to determine where he was headed and to explain the legal situation regarding invasive animals in B.C.
- A conference call between the COS and Matthias Herborg at 8.30 am it was decided to let the boat enter BC and decontaminate it at a safe location, selected and monitored by the COS, at its destination. After initial confusion around its final destination, it was established that the boat was going to s.22 in Kelowna.
- Based on the location CO Josh Lockwood took over the case.
- Since the boat had been out of the water for 30 days, Herborg was confident that there were no live mussels present when the boat entered B.C. Nevertheless, live and dead mussels are

banned under the Controlled Alien Species regulation (under the *Wildlife Act*).

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- The hauler was informed that he was in breach of the Controlled Alien Species Regulation under the *Wildlife Act*, and Josh Lockwood (COS) declared the boat seized under the Federal Fisheries Act and its requirement to have a permit to possess and Transport Live Fish, which includes aquatic invertebrates) until it was decontaminated at 9.:30 am.
- The hauler was co-operative.
- While the boat was registered in [s.22](#) it has been in [s.22](#) in Arizona for the last 2 years, which is known to be infested with quagga mussels, but not zebra mussels.
- Conservation officers worked with the hauler to arrange for a hot wash company (either AquaHotwash or Canadian Hotwash) to conduct a hot water high pressure cleaning on land in Kelowna on Friday, March 14.
- The Conservation Officer Service also established contact with the boat owner, the hauling company and the destination marina.
- Tom Wolf responded that he will follow up with his inspection crew and provide them with further training to make sure they are not missing further mussels.

Friday, March 14, 2014

- The boat was parked on a gravel surface in the Kelowna area, where the wash water would not run into Okanagan Lake.
- The cleaning company completed a thoroughly decontamination and pressure-wash of the boat and flushed the sea strainers (mesh filter baskets), engine cooling system, and A/C system according to the Provincial decontamination guidelines.
- Marine engineers were on site and provided help with the decontamination and cleaning of the engine cooling and A/C system
- Mussel shells were present around the propeller shaft mounds, around the two bow thruster propellers and in the sea strainers for the engine cooling system.
- Conservation officers supervised the cleaning operation and the inspection of the engine cooling system, samples were taken and send to Matthias Herborg. Upon arrival all mussels were inspected and found to have no tissue inside the shells, ascertain that they were all dead.
- The hauler provided an invoice indicating that the boat had been removed from [s.22](#) on Nov. 9, 2013 and had been out of the water since then, which considerably reduced the risk that any quagga mussels were still alive on the boat.
- The cost for cleaning the boat was about \$320, which was paid by the owner or hauler.
- The COS and Herborg were satisfied that all mussels had been removed from the boat. Based on the COS report, the boat was released on Friday afternoon and authorized to enter B.C. waters.

Lessons learned – next steps (including lead person):

- *Matthias Herborg* will proceed with delivering training to the CBSA
- *Matthias Herborg*, follow up with the hauler to provide him with the necessary information to identify high risk boats and how they need to be cleaned to comply with Bc and other regulations. The hauler is also willing to provide the contacts of other haulers shipping boats to BC to provide them with the same information.

- *Matthias Herborg / Barb Leslie* Is there a point contact at the COS that could be included in notification of boats destined for BC and identified by other jurisdictions. Ideally this would be through the RAPP line, but the information flow chart is not properly set up.
- *Matthias Herborg* Compile contact information for available hotwash units owned by the province, and external companies that could be used together with clear cleaning instructions
- *Terry Ahern / Matthias Herborg* Determine best delivery of decontamination order, electronically vs paper, vs proper CO form
- *Matthias Herborg/ Terry Ahern* get out a general order as soon as Controlled Alien Species regulation are updated and we can fully enforce the ban on dead mussels. Also provide an updated training manual as soon as the regulation changes are signed off.
- *Matthias Herborg* Explore potential to restrict the number of border crossings and times boats can enter BC to reduce the number of locations we need to monitor.
- *Barb Leslie* Exploring information sharing MOU with CBSA to allow for streamlined information sharing between federal and provincial agency, this will become particularly relevant once federal legislation might come into law.

INVOICE

6713



MOBILE PRESSURE WASHING
 4283 Turner Road, Kelowna, B.C. V1W 2N5
 (250) 764-8797
 GST #R120139662

DATE: March 14/14
 SALESPERSON: _____ YOUR ORDER NO.: _____

TO Cardinal Boat Movers
Ladner B.C.
 s.22

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	s.22		
1.75 hrs	Time incl travel	170/hr.	245 -
3 liters	Sodium Hypo 12.5/1	@4	12 -
6 liters	Other Chem	@8	48 -
	- Wash belly of boat with SH to remove any possible creature		
	- Wash canisters with SH		
	- Wash remainder of boat		
<u>Thank you paid via</u>			
TERMS	SUBTOTAL		305 -
	GST		15 25
	PST		
	TOTAL		320 25

THANK YOU



2014-05-14

File 201401308

WARNING NOTICE

CARDINAL BOAT MOVERS INC.
223 – 5158 48th Ave
Delta BC
V4K 5B6

Attention: s.22

Re: Possession and Transportation of Zebra or Quagga Mussels in British Columbia

On March 13, 2014 your company, Cardinal Boat Movers transported a 44 foot Carver Motor Vessel, the s.22 to Kelowna, British Columbia via the Osoyoos border crossing. The vessel was observed by Conservation Officer LOCKWOOD to have adult Zebra or Quagga mussels attached to the hull. We understand that your company was co-operative and arranged to have the mussels removed from the hull that same day. Please be advised that in the future it is our expectation that any Zebra or Quagga Mussels must be removed before a vessel is brought into British Columbia.

Please consider this letter as an official warning notice and a reminder that the possession of Zebra Mussels, alive or dead in British Columbia is a violation of the Wildlife Act and the Controlled Alien Species regulation (94/2009).

Please be advised that a violation of this legislation can result in fines up to \$250,000 and imprisonment for up to 2.5 years. I have attached an excerpt from the Controlled Alien Species Regulation for your reference. If you have any questions or concerns please contact me at the address below, or by phone at (250)-490-8214.

Thank you,

Jeff HANRATTY
Conservation Officer
Okanagan Region

CONTROLLED ALIEN SPECIES REGULATION BC REG 94/2009

Controlled Alien Species Regulation Prohibitions

- 7 (1) A person must not possess an aquatic invasive species individual.
- (2) A person who possesses an aquatic invasive species individual must prevent the aquatic invasive species individual from breeding.
- (3) A person must not
- (a) release into BC waters an aquatic invasive species individual, or
 - (b) allow an aquatic invasive species individual to be released, or to escape, into BC waters,
 - (c) Repealed. [B.C. Reg. 48/2014, s. 2 (b).]
- (4) A person must not ship or transport in British Columbia an aquatic invasive species individual.

[en. B.C. Reg. 402/2012, s. 8; am. B.C. Reg. 48/2014, s. 2.]

Dead mussels also prohibited

- 7.1 The prohibitions set out in section 7 (1), (3) and (4) also apply to dead mussels and, for this purpose, sections 33 (2), 37 and 77 (2) of the Act apply as if a dead mussel were wildlife or an animal.

Page 7 redacted for the following reason:

s.3

BC's New Controlled Alien Species Regulations



October 2013

General enforcement version

BC's new Controlled Alien Species Regulations

Matthias Herborg BC Ministry of Environment, Aquatic Invasive Species Coordinator,
please contact Matthias.Herborg@gov.bc.ca or **250-356-7683** for questions (Version: 28-Oct-2013)

Recently updated Controlled Alien Species regulation includes schedules with a focus on aquatic species that 'pose a risk to property, wildlife or wildlife habitat'- brought into force Dec. 18th, 2012. For the actual regulations see: <http://www.env.gov.bc.ca/fw/wildlifeactreview/cas/>

Prohibited Live Species: Schedule 3

Under Schedule 3 a number of fish species found in the live food and / or aquarium trade were listed:

- Family **Channidae** : all Asian & African Snakeheads
- Family **Cobitae** : **Oriental weatherfish** (or weather loach)
- Family **Cyprinidae**: **'Asian carps'** (specifically grass, silver, bighead and black carps);
Bitterlings (genus *Rhodeus*); **Tench** ; **White cloud mountain minnow**
- Family **Gobiidae**: Gobies (round, monkey, tubenose and Amur gobies)
- Family **Ictaluridae**: All species (bullheads, madtoms & channel catfishes)
- Family **Poeciliidae** : **Western mosquitofish**

Prohibited Species (Alive or Dead): Schedule 4

Under Schedule 4 freshwater mussels that pose a major risk to BC were listed

Zebra, quagga, and Conrad's false mussels

Prohibited for Schedule 3 &4 species is:

- Possession.*
- Breeding.*
- Release into BC waters or allow an individual to be released or escape.
- Allowing a mussel to come into contact with BC waters.
- Transport.*

**Exemptions for Accredited Zoo or Aquarium and Certified Research Institutes*

Regulations allows for officer to do:

Wildlife Act enables officers to stop, inspect and seize equipment and species that are illegal to possess.
December 2012 amendments:

- Allow officers to issue a 'decontamination order' for mussels
- Based on observed mussels or origin of the boat
- Offence not to comply with an order
- Includes restrictions on any waste water

Penalties

Allowing an Aquatic Invasive Species to escape for a first time offender:

- fines ranging from \$2,500 to a maximum of \$250,000; or
- a term of imprisonment not exceeding two years; or both a fine and a sentence

Failing to comply with an officer's order to remove mussels from boats and equipment for a first time offender:

- fines up to a maximum of \$100,000; or
- a term of imprisonment of one year; or both a fine and a sentence.

Possessing, failing to prevent Aquatic Invasive Species from breeding, shipping or transporting or failing to safely dispose of waters used to clean or remove mussels for a first time offender:

- fines up to a maximum of \$50,000; or
- a term of imprisonment not exceeding 6 months; or both a fine and a sentence.

Summary of biology and impacts of zebra and quagga mussels

Zebra and quagga mussels are freshwater species that re-engineer the entire ecosystem. They are native to the Ponto-Caspian region in Eastern Europe that were introduced to the Great Lakes in the 1980s. Since then, they have become widespread in eastern Canada and the United States (US), but have also recently arrived in the western US (see maps). While not currently present in British Columbia (BC) or in adjacent waters, they could survive in our waters causing serious impacts on lake rearing salmonids species such as sockeye salmon that depending on planktonic food sources in their earlier life stages. The establishment of these mussels in BC could affect the viability of a large number of important commercial, recreational and First Nation fisheries. It would likely also significantly impact threatened native mussels in BC like the Rocky Mountain Ridged Mussel.

Unlike our native mussels they can attach to hard surfaces which allows them to be moved by boats and equipment trailered between water bodies. Where introduced these mussels clog water pipes in hydrodams, municipal water supplies and irrigation systems, causing significant economic damage. A recent review of economic impacts of zebra mussels in the eastern US, estimated \$268 million in zebra mussel-related impacts just to drinking water and power plant facilities from 1989 to 2004. A BC specific economic risk assessment estimates annual costs of \$9.2 Million to hydro and water facilities alone.

These species can be moved between watersheds while attached as juvenile or adult mussels, 2mm-5cm in size, to watercrafts that are trailered between water bodies. Mussels can survive for extended periods out of the water and can be easily overlooked in the smaller juvenile stages when attached to a boat. Their microscopic free-swimming larvae can also survive for up to 27 days in standing water in boats or other equipment.

Once introduced to a watershed the species can spread rapidly downstream through its free swimming larval stages (see figure of life cycle). Zebra mussels have been found on recreational water crafts entering the Columbia River Basin, but due to intensive boat inspection programs in Washington, Idaho, Montana and Oregon, infested boats are decontaminated before proceeding into the Columbia Basin.

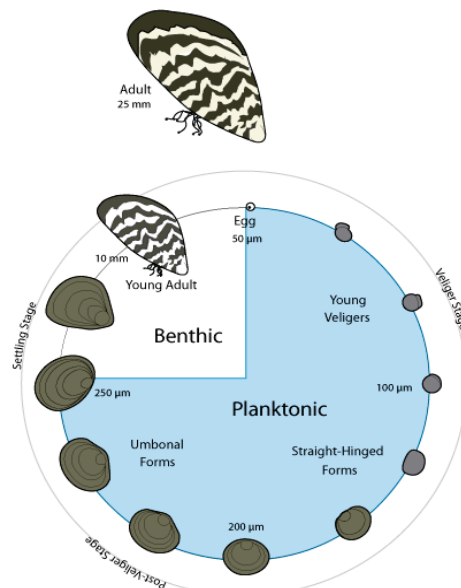


Fig 1: Life cycle of zebra mussel, note the size and planktonic (free swimming phase) vs benthic (attached phase). Source 100th Meridian Initiative

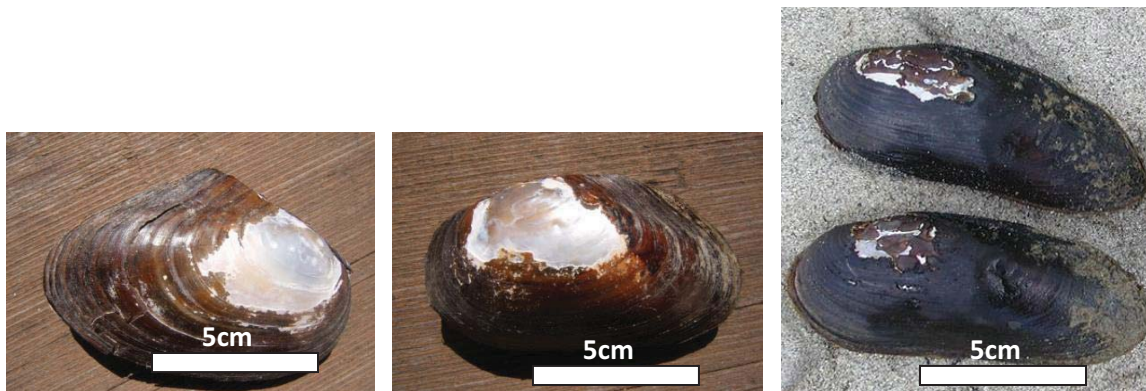
Identification

Zebra and quagga mussels are relatively small mussels, ranging in size from 1mm to 3cm /1 inch as fully grown adults. They often have the characteristic zebra or quagga stripes, but not always, shells can also be browner or cream coloured. Their shape resembles a propeller blade. One distinguishing feature is that they can attach to solid surfaces, often forming clumps, like some marine mussels.

Example of zebra and quagga mussels:



In comparison **our native mussels** are much larger have a different shape and **cannot attach to hard substrate**. For comparison see the pictures below.



Identification of high risk watercrafts

Definition of High Risk Watercraft/Equipment – Any vessel or piece of equipment that has been in any province/ state known or suspected of having zebra or quagga mussels in the past 30 days or any watercraft or equipment that is coming from a state / province that has quagga or zebra mussel infestations (see maps and list) and is not clean, and to the extent practical, drained and dry. See the decision matrix for guidance, [orange and red boxes mark high risk watercrafts](#).

NOTE: Watercraft/equipment that have been moored or been in the water for several days or longer pose the highest level of risk for attached mussels, while all watercraft with on-board raw water systems present some elevated level of risk for mussel larvae contamination regardless of the length of exposure. Generally speaking, the longer the period of exposure, the higher the risk of finding attached mussels.

High Risk Watercrafts need to be closer inspected according to the Decision Matrix ([orange and red boxes](#)) and might have to be decontaminated and potentially subsequent quarantine of the boat. This is a time consuming operation that should only be undertaken by trained personal. Please contact the Report all Poachers and Polluters hotline 1-877-952-7277 if you come across a boat that requires decontamination and you do not have the equipment and trained staff available. The further down for more details

Following the decontamination boats that have been out of the water for less than 30 days and had mussels attached, need to be quarantined for 30 days. The purpose of the quarantine is to ensure that any mussels potentially missed in the decontamination will die, as well that any hidden mussels that were killed during the decontamination but could not be removed will emerge during the period.

Low Risk Watercrafts are all water crafts that have only been used within British Columbia or other non-contaminated provinces or states within the last 30 days, see the decision matrix ([green boxes](#)). The contact with the owners during an inspection should still be used as an outreach opportunity to inform about Clean Drain and Dry, but then released as soon as possible.

Additional information:

See the additional information provided further down regarding **inspections and decontamination**. See the 100th Meridian Initiative website inspection and decontamination video <http://www.youtube.com/watch?v=JX8TmwTx-tU> .

The **decontamination standards** follow the [Uniform Minimum Protocols and Standards for Watercraft Interception Programs](#) for Dreissenid Mussels in the Western United States (January 2012 Version)

Definition of Clean Drain and Dry

All vessels launching into BC waters are encouraged to follow Clean Drain and Dry, [this approach applies to all boats in the GREEN category according to the flow chart](#)

Clean - Absent visible Aquatic Invasive Species or attached vegetation, dirt, debris or surface deposits including mussel shells or residue on the watercraft, trailer, outdrive or equipment that could mask the presence of attached mussels

Drained - To the extent practical, all water drained from any live-well, bait-well, storage compartment, bilge area, engine compartment, deck, ballast tank, water storage and delivery systems, cooler or other water storage area on the watercraft, trailer, engine or equipment

Dry - No visible sign of standing water, or in the case of equipment, wetness on or in the watercraft, trailer, engine or equipment

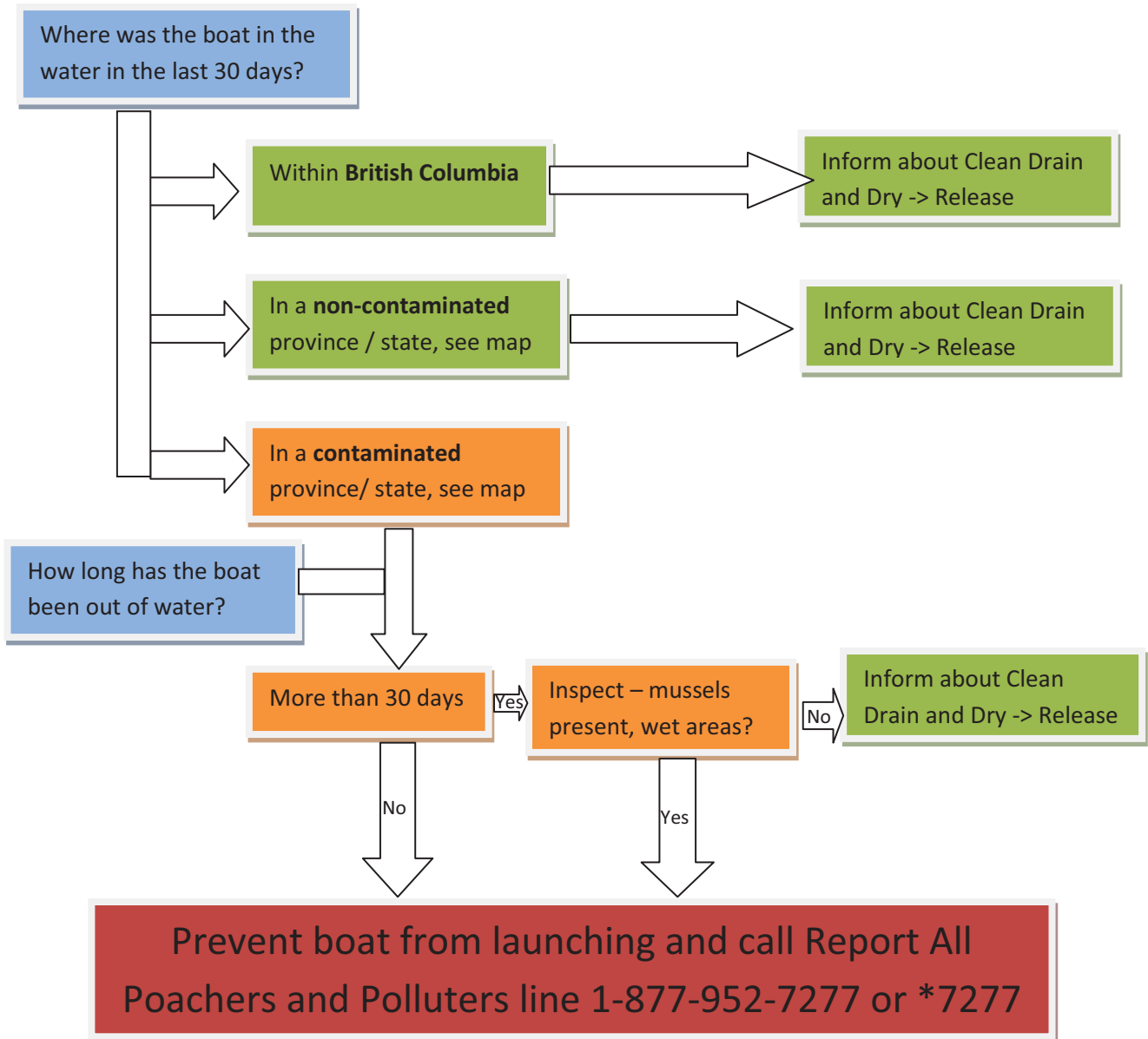
Water craft inspections are time and personal intensive and can lead to frustrating hold ups for recreational boaters, therefore a separation of boats into low and high risk boats greatly improves efficiencies.

Watercraft decision flow chart

This decision flow chart is intended to distinguish low risk vs high risk boats, trailers, fishing equipment or other water based recreational equipment with respect to their likelihood to transport zebra and quagga mussels. It also lays out the resulting actions recommended according to Schedule 4 of the Controlled Alien Species Regulations.

Assessment is based on two simple questions:

1. When was your boat last in the water, has it been less than 30 days?
2. Where was your boat in the water in the last 30 days?



Source areas for zebra and quagga mussels

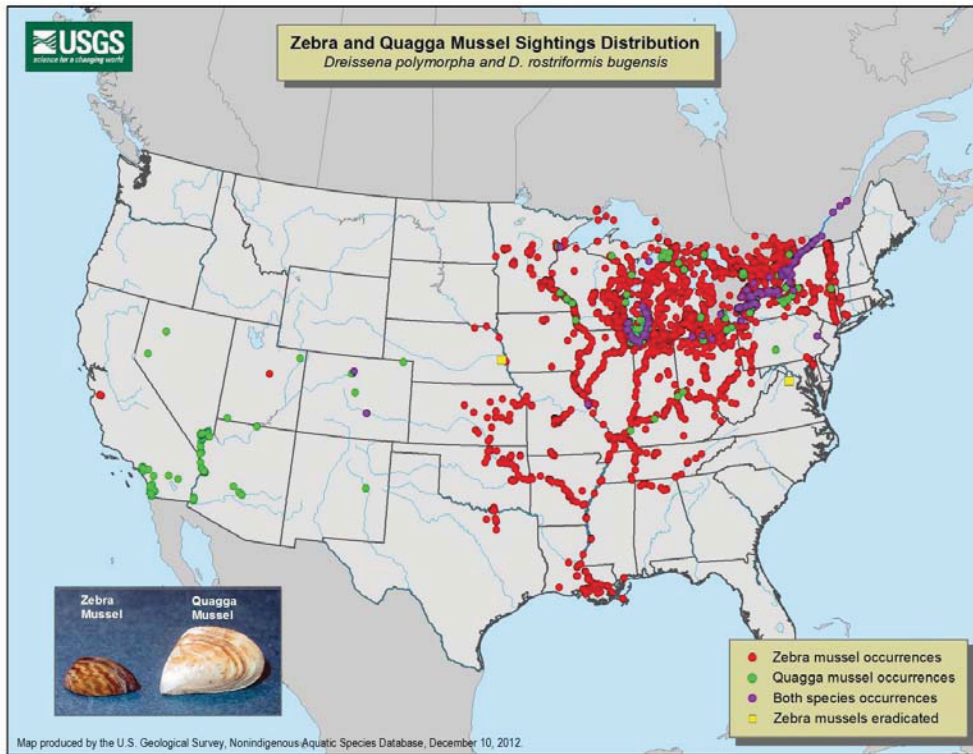
The Controlled Alien Species Regulation lists under Schedule 5 Section 9 the following provinces and states as contaminated as of December 2012:

Canada		
Ontario	Quebec	Manitoba

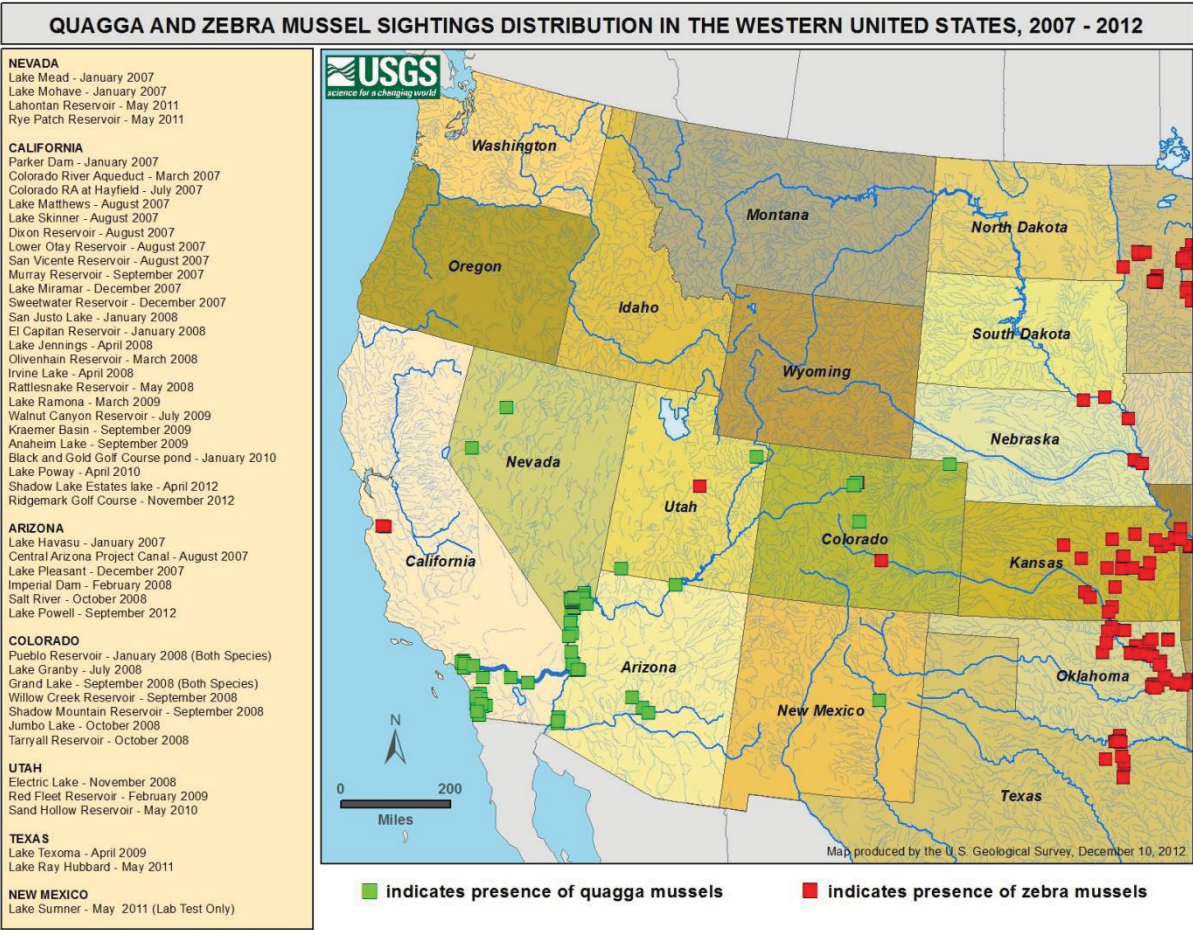
USA				
Alabama	Arizona	Arkansas	California	Colorado
Connecticut	Illinois	Indiana	Iowa	Kansas
Kentucky	Louisiana	Maryland	Massachusetts	Michigan
Minnesota	Mississippi	Missouri	Nebraska	Nevada
New Mexico	New York	North Dakota	Ohio	Oklahoma
Pennsylvania	South Dakota	Tennessee	Texas	Utah
Vermont	West Virginia	Wisconsin		

NOTE: The most up to date information is available via the USGS website, which includes static and zoom able maps of all know locations with introduced zebra and quagga mussels <http://nas.er.usgs.gov/taxgroup/mollusks/zebramusssel/>.

US states currently considered free of zebra and quagga mussels are: **Alaska Washington, Idaho, Montana, Oregon and Wyoming**



The current distribution of zebra and quagga mussels in North America [click here for latest version](#)



The current distribution of zebra and quagga mussels in the western US. Please note that this map lists the waterbodies in the western US with known zebra or quagga mussel populations.

For the latest version [click here](#) or go to the USGS Aquatic Nuisance Species Zebra and Quagga Mussels website and look for 'Zebra and Quagga Mussel Distribution in the Western United States'

BC High Risk Watercraft Inspection and Decontamination Form

Inspection location: _____ Date/Time: _____

Vessel registration#: _____ Vehicle reg#: _____ Trailer reg#: _____

Reason for inspection:

- Out of Province registered, or used out of province within last 30 days
- Been in contaminated waters within the last 30 days (Name/ State or Prov): _____ Days out of water: _____
- Standing water present Engine cooling water present Dirty/Crusty/slimy below water line
- Other:

VESSEL INSPECTION (inspect very methodically and carefully)

Place blocks under the trailer wheels during your inspection

Overall look and feel of the hull: Clean/smooth Bumpy/sandpaper (use magnifying glass to look for mussels)

Ask owner to remove plugs

Vessel Exterior checked

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Entire hull | <input type="checkbox"/> Trim tabs (top & bottom) | <input type="checkbox"/> Through hull fittings | SAILBOATS |
| <input type="checkbox"/> Transom | <input type="checkbox"/> Transducers | <input type="checkbox"/> Pitot tubes | <input type="checkbox"/> Centreboard box |
| <input type="checkbox"/> Anchors and ropes | <input type="checkbox"/> Depth sounders | <input type="checkbox"/> Water intakes/Outlets | <input type="checkbox"/> Rudder and transom |
| <input type="checkbox"/> Water holding pockets | <input type="checkbox"/> Recessed bolts | <input type="checkbox"/> PWC-foot recesses | <input type="checkbox"/> Keel |
| <input type="checkbox"/> Motor well | <input type="checkbox"/> Cavitation plates | <input type="checkbox"/> Lights | <input type="checkbox"/> Fittings |

Motor checked

- | | | | | |
|---|---|--|---|---|
| <input type="checkbox"/> Exterior housing | <input type="checkbox"/> Propeller assembly | <input type="checkbox"/> Propeller shaft | <input type="checkbox"/> Prop. shaft supports | <input type="checkbox"/> Propeller guards |
| <input type="checkbox"/> Rudders | <input type="checkbox"/> Propulsion system | <input type="checkbox"/> Lower unit | <input type="checkbox"/> Gimbel area | <input type="checkbox"/> Water intake/outlets |

Trailer checked

- | | | | | |
|---|--|--|---|--|
| <input type="checkbox"/> Rollers, bunks, pads | <input type="checkbox"/> Licence plate | <input type="checkbox"/> trailer lights | <input type="checkbox"/> Trailer wiring | <input type="checkbox"/> Trailer axels |
| <input type="checkbox"/> Trailer springs | <input type="checkbox"/> Fenders | <input type="checkbox"/> Pockets and hollows | <input type="checkbox"/> Wheels and tires | <input type="checkbox"/> Hangers |

Interior/Equipment Checked

- | | | | | |
|--|---|--------------------------------|---|---|
| <input type="checkbox"/> Bait and live wells | <input type="checkbox"/> Internal ballast tanks | <input type="checkbox"/> PFD's | <input type="checkbox"/> Float cushion/belts | <input type="checkbox"/> Rope & equipment lockers |
| <input type="checkbox"/> Anchors | <input type="checkbox"/> Waterfowl decoys | <input type="checkbox"/> Nets | <input type="checkbox"/> Water skis and ropes | <input type="checkbox"/> Other |

Vessel thoroughly drained

- | | | | |
|--|--|--|---|
| <input type="checkbox"/> Bilge plug or pump | <input type="checkbox"/> Bait and wells | <input type="checkbox"/> Ballast tanks | <input type="checkbox"/> Drain and lower unit on outboard |
| <input type="checkbox"/> Drain inboard motors fully by pulling plugs | <input type="checkbox"/> Drain water cooled generators, swamp coolers with plugs | | |

Actions taken

- Inform about Clean Drain and Dry Requires decontamination Requires 30 day quarantine
 Requires re-inspection after quarantine

Closeout (if nothing is found)

- Ask owner to replace bilge or other plugs remove wheel blocks Yell "stand clear"
 Thank them for following Clean, Drain and Dry

Vessel inspection findings

- Did not find any signs of mussels
 Boat poses a risk because: Boat last used in contaminated waterbody Less than 30 day drying time
 Signs of mussel Standing water Water in cooling/ ballast/ other systems
 Other

Inspection completed in accordance with provincial standards:

Inspected by (print name): _____

Inspected by (signature): _____

Decontamination requirements summary

All boats in the high risk categories (orange or red) according to the flow chart need to be fully decontaminated. This is a time consuming operation that should only be undertaken by trained personal. Please contact the Report all Poachers and Polluters hotline 1-877-952-7277 if you come across a boat that requires contamination and you do not have the equipment and trained staff available.

These protocols follow the [Uniform Minimum Protocols and Standards for Watercraft Interception Programs](#) for Dreissenid Mussels in the Western United States (January 2012 Version)

WARNING: WATERCRAFT/ENGINE DAMAGE CAN OCCUR IF DECONTAMINATION PROTOCOLS ARE NOT CAREFULLY FOLLOWED

Boat and trailer: First steps to make sure the boat is Clean, all visible material like mud, plants, or other dirt is removed, drained, water as much as possible is drained.

Boat hull: where there is no risk of damaging through hull fittings, gimbal areas etc, needs to be pressure washed so that all areas are exposed for 10 sec to 60degC water at a pressure of more than 3000psi not exceeding 3500psi. Where there is heavy encrusting, use plastic scrapers to remove the material first.

Engine area, through hull fittings, sensitive hull areas: Flush those areas where pressure may damage the watercraft or equipment (such as the rubber-boot in the gimbal area). A brush may also be used in conjunction with flushing to remove more mussels from hard to access areas. Maintain 70secs of exposure at 60degC to make sure all mussels are sufficiently heated to be killed.

Live well, bait well, wet storage compartments, bilge areas: First drain and then flush with 55degC water and maintain contact time of 70 seconds to kill any mussels and veligers that might be present. Alternatively live /bait well, bilge areas can be filled with 55°C water and held for 30 seconds, and then drained. If the fill method is used, care must be taken in the bilge area to not flood the engine.

Engine cooling system: Using the right attachment flush the engine with 60deg C connected to the power wash unit or other hot water source, start the engine and run for 130 seconds to kill mussels in the engine cooling system. *To avoid engine damage only idle the engine and do not exceed this time frame.*

Ballast tanks: Since some ballast tank parts might be only built to withstand 49degC flush the tanks at this temperature and retain water for at least 130 seconds.

From: [Beck, Jim L ENV:EX](#)
To: [Leslie, Barb ENV:EX](#)
Cc: [Cooke, Leslie ENV:EX](#); [Lockwood, Josh ENV:EX](#); [Hanratty, Jeff ENV:EX](#)
Subject: Re: Coors 201401308 Cardinal Boat Movers
Date: Saturday, March 15, 2014 10:12:09 AM

We need to discuss this file Barb. This is a South Ok file, North ok, Josh conducted the final inspection/follow up on what was needed to be done as determined but the conference call conducted by South ok staff/Jeff's call out the night before. Barb, I would like to discuss this in greater detail with you on Monday.

Jim

Sent from my iPhone

On Mar 14, 2014, at 14:44, "Leslie, Barb ENV:EX" <Barb.Leslie@gov.bc.ca> wrote:

Please ensure this information is entered next week.

We caught Victoria's attention on this one. .

From: Cooke, Leslie ENV:EX
Sent: Friday, March 14, 2014 2:13 PM
To: Lockwood, Josh ENV:EX; Leslie, Barb ENV:EX; Hanratty, Jeff ENV:EX
Subject: Coors 201401308 Cardinal Boat Movers

This file has been created in Coors Jeff currently is the Lead Investigator for this file. Continuation report from Officer Hanratty, ERS is attached along with photos and e-mails. My understanding that Josh has taken over this file, so do you want me to change Josh as Lead Investigator. I entered Cardinal Boat Movers as a Suspect but will need to complete address information, etc.

This folder is currently in the South Okanagan Admin box.... I can copy over or leave where is and you can provide me with the update information. Please advise thanks Les

Leslie Cooke

Program Administrative Support
Conservation Officer Service
Ministry of Environment
Penticton BC (250) 490-8209
Fax: (250) 490-8210
<mailto:leslie.cooke@gov.bc.ca>

Report All Poachers and Polluters (RAPP)
1-877-952-RAPP (7277) or www.rapp.bc.ca

 Please consider the environment before printing this email.

From: [Leslie, Barb ENV:EX](#)
To: [Stern, Mike ENV:EX](#); [Beck, Jim L ENV:EX](#); [Lockwood, Josh ENV:EX](#); [Hanratty, Jeff ENV:EX](#); [Hamilton, Bob ENV:EX](#)
Cc: [ENV Okanagan COS](#)
Subject: FW: ERS 13-5380- Boat from Texas enters Canada with what appears to be Mussels on it. (Controlled alien species)
Date: Friday, March 14, 2014 2:39:15 PM

FYI

Good Job on this one.

I know there are some issues to work through but again the COS is doing the right thing by being diligent.

s.13

Barb

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

From: Forsdick, Doug O ENV:EX
Sent: Friday, March 14, 2014 1:36 PM
To: Herborg, Matthias ENV:EX; Leslie, Barb ENV:EX; Canuel, Aaron ENV:EX; Olsen, Rod ENV:EX; Airey, David ENV:EX
Cc: Jmieff, Danielle ENV:EX; Lockwood, Josh ENV:EX; Ahern, Terry ENV:EX; Halls, Lori D ENV:EX
Subject: RE: ERS 13-5380- Boat from Texas enters Canada with what appears to be Mussels on it. (Controlled alien species)

I would also like to thank everyone involved. Great co-operation and example of working together.

Matthias

I believe your pro-active training of our COS staff and dialogue with the PLT has helped a great deal. Thank you.

Doug

From: Herborg, Matthias ENV:EX
Sent: March 14, 2014 11:44 AM
To: Leslie, Barb ENV:EX; Forsdick, Doug O ENV:EX; Canuel, Aaron ENV:EX; Olsen, Rod ENV:EX; Airey, David ENV:EX
Cc: Jmieff, Danielle ENV:EX; Lockwood, Josh ENV:EX; Ahern, Terry ENV:EX
Subject: RE: ERS 13-5380- Boat from Texas enters Canada with what appears to be Mussels on it. (Controlled alien species)

Hi

I just want to thank everybody for your collaboration on that one, and I am pleased how well communication worked, given that this was the first time we dealt with a boat at the border.

As further action I am in contact with CBSA to provide them training on the Provincial and pending federal legislation around mussels, and I will also follow up with this hauler and commercial boat

haulers in general to inform them about the new regulation and implication for them.

Regards

Matthias Herborg

From: Leslie, Barb ENV:EX
Sent: Friday, March 14, 2014 11:12 AM
To: Leslie, Barb ENV:EX; Forsdick, Doug O ENV:EX; Canuel, Aaron ENV:EX; Olsen, Rod ENV:EX; Airey, David ENV:EX
Cc: Jmieff, Danielle ENV:EX; Herborg, Matthias ENV:EX; Lockwood, Josh ENV:EX
Subject: RE: ERS 13-5380- Boat from Texas enters Canada with what appears to be Mussels on it. (Controlled alien species)

FYI

At approximately 18:30 hours March 12, 2014 Cardinal Boat Movers transported a boat into Canada from Texas for [s.22](#) Canada at the Osoyoos Border crossing. The boat was being transported to Kelowna, BC.

The Canada Boarder Services (CBS) officer observed what he believed were Mussels (believed to be either Quagga mussels and zebra mussels prohibited under the BC wildlife Act) on the bow thrusters of the vessel and contacted the Conservation Officer Services RAPP line. The Conservation officer requested CBS not to allow entry into Canada until the boat was confirmed free of any live mussels. CBS indicated they had no authority under legislation to deny entry into Canada.

On March 13, 2014, Conservation Officers contacted the driver instructed him to park the Boat and trailer in a gravel pit near Kelowna, BC and arranged for a mobile wash station to ensure there are not live mussels on the boat. Further inspection by a Marine Service was completed to ensure no live mussels were present. Document indicated the boat was removed from the US waters in Nov 2013. Matthias Herborg of the Ministry of Environment has authorized the boat to enter BC Waters.

The transporter has been cooperative. No further action is required.
Lead investigator : Sgt J Lockwood.

Inspector Barbara E. Leslie
Conservation Officer Service/Ministry of Environment/Penticton,BC
Ph: (250)-490-8269
Email: barb.leslie@gov.bc.ca<<mailto:barb.leslie@gov.bc.ca>>

High Risk Watercraft Inspection Form and Decontamination Order

Date: Time:

Last Name:

Address:

s.22

State/Province:

Home Phone:

Vessel

Make:

Registration #:

s.22

Vehicle Plate#

Reason for Inspection

- Out of Province registration Used out of Province in last 30 days
- Been in contaminated water in last 30 days Location: _____
Days out of water: _____
- Standing water present Engine Cooling water present
- Dirty/crusty/slimy below water line Other: _____

Inspection Location:

Proceed to page 2 to conduct detailed inspection of vessel. When completed, record the inspection outcome below under "Vessel Inspection Findings" and "Actions Taken".

Vessel Inspection Findings

- Did not find any signs of mussels
- Boat poses a risk because:**
- Signs of mussels Last used in contaminated waterbody
- Standing water Less than 30 days drying time
- Water in cooling/ballast/other systems
- Other:

Actions Taken

- Inform about Clean Drain and Dry REQUIRES DECONTAMINATION
- Requires 30 day quarantine Requires re-inspection after quarantine

Inspection completed in accordance with provincial standards

Inspected by (print):

Inspected by (signed):

Vessel Inspection (*inspect very methodically and carefully*)

Place blocks under the trailer wheels during the inspection

Overall look and feel of the hull Clean and smooth
 Bumpy/sandpapery (use magnifying glass to look for mussels)

Ask owner to remove plugs

Vessel exterior checked as follows:

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Entire hull | <input checked="" type="checkbox"/> Trim tabs (top & bottom) | <input checked="" type="checkbox"/> Water intakes/outlets |
| <input checked="" type="checkbox"/> Transom | <input checked="" type="checkbox"/> Transducers | |
| <input type="checkbox"/> Anchors and ropes | <input type="checkbox"/> Depth sounders | SAILBOATS |
| <input checked="" type="checkbox"/> Water holding pockets | <input type="checkbox"/> Recessed bolts | <input type="checkbox"/> Centreboard box |
| <input checked="" type="checkbox"/> Motor well | <input type="checkbox"/> Cavitation plates | <input type="checkbox"/> Rudder and transom |
| <input checked="" type="checkbox"/> Through hull fittings | <input type="checkbox"/> Lights | <input type="checkbox"/> Keel |
| <input type="checkbox"/> Pitot tubes | <input type="checkbox"/> PWC-foot recesses | <input type="checkbox"/> Fittings |

Motor checked as follows:

- | | | |
|---|--|---|
| <input type="checkbox"/> Exterior housing | <input type="checkbox"/> Propulsion system | <input type="checkbox"/> Propeller shaft support |
| <input type="checkbox"/> Rudders | <input type="checkbox"/> Propeller shaft | <input type="checkbox"/> Gimbel area |
| <input type="checkbox"/> Propeller assembly | <input type="checkbox"/> Lower unit | <input type="checkbox"/> Propeller guards |
| | | <input checked="" type="checkbox"/> Water intakes/outlets |

Trailer checked as follows:

- | | | |
|---|--|---|
| <input type="checkbox"/> Rollers, bunks, pads | <input type="checkbox"/> Fenders | <input type="checkbox"/> Trailer wiring |
| <input type="checkbox"/> Trailer springs | <input type="checkbox"/> Trailer lights | <input type="checkbox"/> Wheels and tires |
| <input type="checkbox"/> Licence plate | <input type="checkbox"/> Pockets and hollows | <input type="checkbox"/> Trailer axels |
| | | <input type="checkbox"/> Hangers |

Interior/Equipment checked as follows:

- | | | |
|---|---|---|
| <input type="checkbox"/> Bait and live wells | <input type="checkbox"/> Waterfowl decoys | <input type="checkbox"/> PFD's |
| <input type="checkbox"/> Anchors | <input type="checkbox"/> Nets | <input type="checkbox"/> Float cushions/belts |
| <input type="checkbox"/> Internal ballast tanks | <input type="checkbox"/> Rope & equipment lockers | <input type="checkbox"/> Water skis and rope |
| | | <input type="checkbox"/> Other |

Vessel thoroughly drained as follows:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Bilge plug or pump | <input checked="" type="checkbox"/> Drain and lower unit on outboard |
| <input type="checkbox"/> Bait and wells | <input type="checkbox"/> Drain inboard motors fully by pulling plugs |
| <input type="checkbox"/> Ballast tanks | <input checked="" type="checkbox"/> Drain water cooled generators, swamp coolers with plugs |

Closeout (if nothing is found):

- | | |
|--|--|
| <input type="checkbox"/> Ask owner to replace bilge or other plugs | <input type="checkbox"/> remove wheel blocks |
| <input checked="" type="checkbox"/> Thank owner for following Clean, Drain and Dry | <input type="checkbox"/> Yell "stand clear" |

Return to page 1 to record the inspection outcome under "Vessel Inspection Findings" and "Actions Taken".

From: [Hamilton, Bob ENV:EX](#)
To: [Hanratty, Jeff ENV:EX](#)
Cc: [Beck, Jim L ENV:EX](#); [Stern, Mike ENV:EX](#); [Cooke, Leslie ENV:EX](#); [Hanratty, Jeff ENV:EX](#)
Subject: Re: Notification of ERS 13-5381 - PENTICTON - OSOYOOS
Date: Thursday, March 13, 2014 12:26:35 AM

This sounds interesting. I don't have a truck as it is overnighing in the shop. I know Mike has a service and tire changeover scheduled for tomorrow as well. I suspect they are wanting an inspection by an officer, examination of the inspection report but then what? Statements of the driver / owner, I presume the boat will not be allowed into Canada until the boat is decontaminated and reinspected. It will then need to be out of the water for at least 30 days. Do we issue a decontamination order? VT? Turn the boat over to US F&W? As the boat travelled through Washington, I'm sure they have question and concerns. It would seem prudent to let them lead this as they are the most affected jurisdiction. The ultimate goal is to ensure the boat does not come near water until clean. (Provided it is contaminated).

s.22

I can attend (with someone else - vehicle).

Obliviously the invasive species specialist will input / lead.

Sent from my iPhone

> On Mar 12, 2014, at 21:47, "Hanratty, Jeff ENV:EX" <Jeff.Hanratty@gov.bc.ca> wrote:
>
> Folks
>
> I did some work on this.
> The boat appears to have adult mussels in the photos.
> CBSA did a good job of finding them but not such a great job getting us the details to go on.
> The boat is headed for Kelowna and Mathias HERBORG our aquatic invasive species co-ordinator will follow up tomorrow. He has been in contact with the truck driver throughout today.
> It was not cleared to continue into CANADA as there was no pilot car and it is over width. It is spending the night in the CBSA parking lot.
> This boat HAS a clean inspection sheet but it also HAS adult mussels on the hull.
>
> I have some serious concern with the validity of the inspection and that causes me concern about whether it truly has been out of the water since January as stated in the inspection.
>
> I will not be in till 10:00 can someone start follow up on this asap?
>
> I put the Continuation Report in the admin folder as
> Cardinal Boat movers.
>
> It's not ready for entry but I thought it would be easy to find there.
> Call my cell clarification if the continuation report is un clear. s.22
>
>
> JH
>
>
> Jeff HANRATTY
> Conservation Officer
> South Okanagan Zone
> 250-490-8214
>
>
>
> -----Original Message-----
> From: COS South Okanagan Zone ENV:EX [<mailto:COS.SouthOkanaganZone@gov.bc.ca>]
> Sent: Wednesday, March 12, 2014 6:29 PM
> To: Beck, Jim L ENV:EX; Hamilton, Bob ENV:EX; Stern, Mike ENV:EX; Cox, David ENV:EX; Paquin, Jonathan ENV:EX; Pike, Paul R ENV:EX; Hanratty, Jeff ENV:EX
> Subject: FW: Notification of ERS 13-5381 - PENTICTON - OSOYOOS
>
>
> -----
> From: Yvonne.sinclair@pep.gov.bc.ca[SMTP:YVONNE.SINCLAIR@PEP.GOV.BC.CA]

> Sent: Wednesday, March 12, 2014 6:28:59 PM
> To: COS South Okanagan Zone ENV:EX
> Subject: Notification of ERS 13-5381 - PENTICTON - OSOYOOS Auto forwarded by a Rule
>
>
> Notification of ERS 13-5381 - PENTICTON - OSOYOOS
>
> You can access the document at the following URL:
>
> https://hazard.pep.gov.bc.ca//ECCLog_FY1314/COSIncident.nsf/ERSsByDate/2FD4C5D358B2BB6E88257C9A0006E4D7?OpenDocument
>
>
>
> Enforcement Routing Sheet #13-5381
> Complaint Received By: YVONNE (Yvonne Sinclair) Date / Time received: 2014-03-12 18:15
> Area: OSOYOOS - PENTICTON - SOUTHERN INTERIOR REGION COORS OR#:
>
> CALLER INFORMATION
> Caller Name: OFFICER LANE
> Mail / Street Address: BORDER PATROL
> City:
> Postal Code:
> Referred By:
>
> CONTACT NUMBERS
> Business: 250-495-7518
>
> VIOLATION DETAILS:
> Violation Date: 2014-03-12
> Violation Time: ongoing now
> Violation in Progress: Yes
> Violation Type: FISHERIES
> Offense Witnessed:
> Offense Location: US/Canada border
> Offense Details: Advises he has a boat coming through and it has mussels on it. The boat is being trailered.
>
> 1819 Briefed CO Jeff Hanratty.
> 1828 emailed CO.
>
> DESCRIPTION
>
> Name (If known):
> Sex:
> Race:
> Height:
> Weight:
> Eyes:
> Hair:
> Glasses:
> Smoker:
> Build:
> Complexion:
> Distinguishing Features:
> Clothing:
> Vehicle:
> Weapons:
> Other Details:
>
>
>

From: [Herborg, Matthias ENV:EX](#)
To: ["Cardinalboatmovers@shaw.ca"](mailto:Cardinalboatmovers@shaw.ca)
Cc: [Beck, Jim L ENV:EX](#); [Lockwood, Josh ENV:EX](#); [Stern, Mike ENV:EX](#); [Hamilton, Bob ENV:EX](#); [Hanratty, Jeff ENV:EX](#)
Subject: Boat cleaning requirements
Date: Thursday, March 13, 2014 12:00:30 PM
Attachments: [MoE_CAS_training_v3_ge.pdf](#)

Hi s.22

Please find attached the training manual I use for zebra and quagga mussels. I want to draw your focus onto page 13, where it is laid out how to kill and remove mussels from various areas of the boat, including the engine flush.

These are the procedures we expect you to follow. I also would like you pull out the seastrainers as there are often mussel shells in there.

Let me know if you have any questions

Matthias

Leif-Matthias Herborg PhD

Aquatic Invasive Species Specialist

BC Ministry of Environment

Victoria, BC

From: [Herborg, Matthias ENV:EX](#)
To: [Beck, Jim L ENV:EX](#); [Lockwood, Josh ENV:EX](#); [Stern, Mike ENV:EX](#)
Cc: [Hamilton, Bob ENV:EX](#); [Hanratty, Jeff ENV:EX](#)
Subject: Quagga/Zebra Mussel pictures
Date: Thursday, March 13, 2014 11:44:17 AM
Attachments: [image001.png](#)
[IMG_2869.JPG](#)
[IMG_2870.JPG](#)
[IMG_2872.JPG](#)
[IMG_2875.JPG](#)
[IMG_2876.JPG](#)

Hi

Some of you might have seen them already, here are the pictures of the mussels the CBSA agent found on the boat. They were around the prop-shaft of the main engine, and between the props of the bow thruster. The hull of the boat has been sanded and re-painted so there should be no mussels on the main hull.

Matthias

From: Lane, Aaron [<mailto:Aaron.Lane@cbsa-asfc.gc.ca>]
Sent: Wednesday, March 12, 2014 8:50 PM
To: 'jeff.hanratti@gov.bc.ca'
Cc: Herborg, Matthias ENV:EX
Subject: Quagga/Zebra Mussel

Hi Jeff,

Here is the info requested, as well as pictures of the mussels.

Cardinal boat movers

s.22

Thanks

Aaron Lane

Border Services Officer/Agent des services frontaliers
Port of Osoyoos/Bureau d'Osoyoos
202 97th St, Osoyoos, BC, V0H 1V1
Aaron.lane@cbsa-asfc.gc.ca
Phone - 250-495-7518
Fax - 250-495-7692
Government of Canada/Gouvernement du Canada



Canada Border Services Agency
Agence des services frontaliers du Canada

From: [Herborg, Matthias ENV:EX](#)
To: ["Cardinalboatmovers@shaw.ca"](mailto:Cardinalboatmovers@shaw.ca)
Cc: [Hamilton, Bob ENV:EX](#); [Hanratty, Jeff ENV:EX](#); [Lockwood, Josh ENV:EX](#); [Stern, Mike ENV:EX](#)
Subject: Re: 44CMY boat -zebra mussel infested boat
Date: Thursday, March 13, 2014 11:41:12 AM

Hi s.22

Based on our conversation and the information I have received from CBSA there are the following facts:

There are alive or dead zebra or quagga mussels attached to the boat and it is illegal to possess, transport or release dead or alive zebra or quagga mussels in BC under the Controlled Alien Species regulations.

In order to make sure that none of these mussels get into lakes or rivers or streams in BC the following actions are required:

1. I will need the invoice from you to document that this boat has been out of the water for over 30 days, that will mean that the risk from the mussels is much lower, as they should be all dead.
2. I am in contact with the CO service, who will provide you with a suitable and safe location to have the boat cleaned. The boat will then has to be inspected by a CO or other Provincial staff, to ensure all mussels have been removed.

Until this has been achieved the boat and any water coming off it is not allowed in natural BC waters, as laid out in our regulation, the fines for the release of mussel to BC Waters is up to \$100'000.

I appreciate your cooperation and we will be in contact to resolve this as quickly and easily as possible

Regards

Matthias Herborg

Leif-Matthias Herborg PhD

Aquatic Invasive Species Specialist

BC Ministry of Environment

PO Box 9338 Stn Prov Govt

Victoria, BC, V8W 9M1

Pho: 250 356-7683

Cell: s.17

Fax: 250 356-9145

Email: Matthias.Herborg@gov.bc.ca

From: [Herborg, Matthias ENV:EX](#)
To: [Beck, Jim L ENV:EX](#); [Lockwood, Josh ENV:EX](#); [Stern, Mike ENV:EX](#)
Cc: [Hamilton, Bob ENV:EX](#); [Hanratty, Jeff ENV:EX](#)
Subject: RE: Zebra Mussel Issue
Date: Thursday, March 13, 2014 11:38:40 AM

Hi

So the hauler is Cardinal Boat Movers ,the driver is s.22 his number is s.22 or s.22
s.22 The boat is going t s.22 in Kelowna and the owner of the boat is s.22
s.22

I will CC you on the email I am sending to the hauler.

Matthias

From: Beck, Jim L ENV:EX
Sent: Thursday, March 13, 2014 11:28 AM
To: Lockwood, Josh ENV:EX; Stern, Mike ENV:EX
Cc: Herborg, Matthias ENV:EX; Hamilton, Bob ENV:EX; Hanratty, Jeff ENV:EX
Subject: RE: Zebra Mussel Issue

Matthias is working directly with the hauler and may be able to assist you on that.

Jim

From: Lockwood, Josh ENV:EX
Sent: Thursday, March 13, 2014 11:25 AM
To: Stern, Mike ENV:EX
Cc: Herborg, Matthias ENV:EX; Beck, Jim L ENV:EX; Hamilton, Bob ENV:EX; Hanratty, Jeff ENV:EX
Subject: Re: Zebra Mussel Issue

Is there anyway to ascertain when that vessel leaves the border and heads north so that Kelona can intercept and direct to the wash

SGT. J. D. Lockwood
Sent from my iPhone

On Mar 13, 2014, at 10:20, "Stern, Mike ENV:EX" <Mike.Stern@gov.bc.ca> wrote:

Matthias,

Follow up to our conversation:

You indicated that the boat was on route to Kelowna from Osoyoos. You indicated that you are in contact with the hauler, can you let us know what your plan is for having the boat further inspected and cleaned.

Jim has talked to Sgt. Josh Lockwood in Kelowna, he is inquiring about cleaning facilities in the area. Josh will contact you today with his findings.

Direct you response to Sgt. Beck and Lockwood, Thanks

C.O. Mike Stern

South Okanagan Zone/ Conservation Officer Service/ Ministry of Environment

102 Industrial Place Penticton, BC

V2A -7C8

Phone: 250-490-8204

Fax: 250-490-8210

From: [Herborg, Matthias ENV:EX](#)
To: [Herborg, Matthias ENV:EX](#); cardinalmovers@shaw.ca
Cc: [Hanratty, Jeff ENV:EX](#)
Subject: RE: Procedures regarding the mussel infested bboat
Date: Thursday, March 13, 2014 10:17:37 AM

Matthias Herborg, Phd
Aquatic Invasive Species Coordinator
BC Ministry of Environment
Pho: 250-356-7683
Email: Matthias.Herborg@gov.bc.ca
Victoria, BC

From: Herborg, Matthias ENV:EX
Sent: March 13, 2014 10:06 AM
To: 'cardinalmovers@shaw.c'
Cc: Hanratty, Jeff ENV:EX
Subject: Procedures regarding the mussel infested bboat

Hi [s.22](#)

Based on our conversation and the information I have received from CBSA there are the following facts:

There are alive or dead zebra or quagga mussels attached to the boat and it is illegal to possess, transport or release dead or alive zebra or quagga mussels in BC under the Controlled Alien Species regulations.

In order to make sure that none of these mussels get into lakes or rivers or streams in BC the following actions are required:

I will need the invoice from you to document that this boat has been out of the water for over 30 days, that will mean that the risk from the mussels is much lower, as they should be all dead.

I am in contact with the CO service, who will provide you with a suitable and safe location to have the boat cleaned. The boat will then has to be inspected by a CO or other Provincial staff, to ensure all mussels have been removed.

To facilitate the 2nd part, can you provide me with the exact location you are bringing the boat in.

Until this has been achieved the boat and any water coming off it is not allowed in natural BC waters, as laid out in our regulation, the fines for the release of mussel to BC Waters is up to \$100'000.

I appreciate your cooperation and we will be in contact to resolve this as quickly and easily as possible

Regards

Matthias Herborg

Leif-Matthias Herborg PhD
Aquatic Invasive Species Specialist
BC Ministry of Environment
PO Box 9338 Stn Prov Govt
Victoria, BC, V8W 9M1
Pho: 250 356-7683
Cell: [s.17](#)
Fax: 250 356-9145
Email: Matthias.Herborg@gov.bc.ca

From: [Stern, Mike ENV:EX](#)
To: [Herborg, Matthias ENV:EX](#)
Cc: [Beck, Jim L ENV:EX](#); [Hamilton, Bob ENV:EX](#); [Hanratty, Jeff ENV:EX](#); [Lockwood, Josh ENV:EX](#)
Subject: Zebra Mussel Issue
Date: Thursday, March 13, 2014 10:20:09 AM

Matthias,

Follow up to our conversation:

You indicated that the boat was on route to Kelowna from Osoyoos. You indicated that you are in contact with the hauler, can you let us know what your plan is for having the boat further inspected and cleaned.

Jim has talked to Sgt. Josh Lockwood in Kelowna, he is inquiring about cleaning facilities in the area. Josh will contact you today with his findings.

Direct your response to Sgt. Beck and Lockwood, Thanks

C.O. Mike Stern

South Okanagan Zone/ Conservation Officer Service/ Ministry of Environment
102 Industrial Place Penticton, BC
V2A -7C8
Phone: 250-490-8204
Fax: 250-490-8210

Notes of CO Bob Hamilton re: the mussel incident at Osoyoos CBS.

2014-03-13 09:00 After receiving messages from CO HANRATTY and reading the previous night's occurrence report, CO STERN called Mathais HERBORG (Aquatic Invasive Species Coordinator) to update the status of the file. HERBORG. CO STERN put the call on speaker phone and called in Sgt Jim BECK and CO HAMILTON to participate in the call. This is a summary of the call:

- HERBORG has been in contact with CBS staff and the truck driver that was bringing a large boat through the USA / Canada border at Osoyoos
- The boat was held up at the border and overnighed at the CBS compound
- The reason the boat was held up was because the boat required a pilot car (over-width). The US pilot car turned around at the border and a Canadian pilot car would be necessary
- HERBORG was aware that there were mussels on the boat but the hull had been recently repainted and had been out of the water for a period of time.
- Sgt BECK was insistent that the best way of dealing with this was to not allow the vessel to proceed into BC.
-
- s.13
- Sgt BECK commented that all that was needed was communication to the driver that if he proceeded into BC he would be in violation of the Wildlife Act for possessing or transporting mussels and his vessel could be seized and there were fines up to \$100,000.00 and that should be effective in keeping the vessel and hence the threat out of BC
-
-
- s.13
-
- HERBORG felt that the vessel should be allowed to continue as it had been inspected in Idaho and deemed to be clean. It had an inspection certificate It had also been out of the water since January
- Sgt BECK commented that the presence of mussels in the photographs supplied by CBS contradicted this information and we should not take any risks as the consequences would be detrimental to the millions if mussels get established in BC. The inspection certificate should be of no effect.
- HERBORG felt the risk was negligible and wanted to work with the industry. He was concerned that if we did not work with them that there would be problems with co-operation in the future. This hauler stated that his company brings about 400 vessels a year into BC.
- Sgt Beck expressed concern that the optics of this was that the Province was not taking the issue of mussels seriously enough and we should not be making concessions
- s.13 the belief that the boat has been out of the water for more than 30 days etc., HERBORG felt that the vessel should be allowed to be hauled to Kelowna where it would be cleaned.
- Sgt BECK conceded that HERBORG was the Aquatic Invasive Species Coordinator and it was his call to make.
- There was discussion as to where the vessel could be cleaned. HERBORG said the portable high pressure wash equipment was not available in the Kelowna area.
- As the vessel would be going to Kelowna, it was communicated that Sgt LOCKWOOD of the North Okanagan would be brought into this as he was more familiar with commercial cleaning facilities that could be used.
- HERBORG suggested that a CO would be necessary to oversee the inspection and cleaning arrangements.
- The call ended with the understanding that the vessel would be allowed to be hauled to Kelowna and Sgt Beck contacted Sgt LOCKWOOD

Cence Marine
Surveying*Transport*Storage



Local & Long Distance

s.22

VESSEL:

s.22

CUSTOMER:

s.22

DATE: March 13, 2014

ADDRESS:

s.22

PHONE:

s.22

s.22

STATEMENT OF SERVICES RENDERED:

s.22

Haul Out and Derig-----

\$6,500.00

Crane Cost-----

1,800.00

Winterize Vessel-----

260.00

Steam Clean Hull-----

200.00

***TOTAL DUE----- (PAID) -----**

\$8,760.00

Balance Due upon receipt

Please make check payable to:

**Paul K. Cence
3112 W. New River Road
New River, Arizona 85087**

Phone: 602-376-6877/Fax: 623-879-8669

APPENDIX 1: PHOTOGRAPH EXHIBITS

SUBJECT: INVESTIGATION MUSSELS
CONTROLLED ALIEIN SPECIES

Photo(s) Taken By: SGT LOCKWOOD

Insert
ph

s.22

oto here

Insert
pho



o here

Photo No: 1

Date of Photo: 2014-03-14

Photo No: 2

Date of Photo: Photo: 2014-03-14

Description photo of the motor vessel that was transporting the controlled alien species zebra mussels from Texas this boat was transported fro s.22 in Arizona to be a border crossing. Current photo is the vessel at s.22

Description: : photo o a photograph depicting muscles from the controlled alien species regulations attached to the rear right thruster of the motor vessel f motor vessel imported from Texas.



Photo No: 3	Date of Photo: Photo: 2014-03-14	Photo No: 4	Date of Photo: Photo: 2014-03-14
Description: this is a photo of a zebra mussel which was attached to the area depicted in photograph 4		Description:	

Note: attach additional pages as needed.

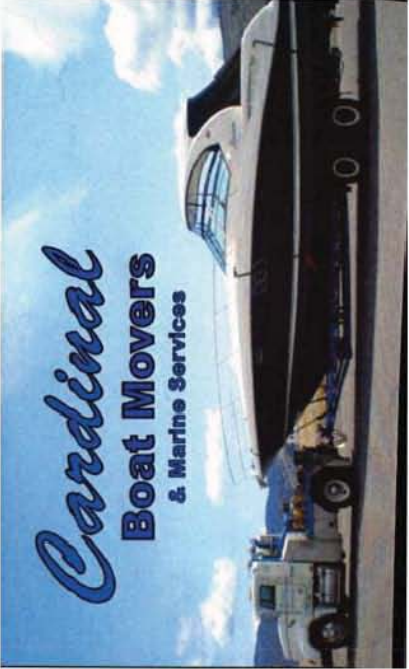
PHOTOGRAPH EXHIBITS			
SUBJECT: INVESTIGATION PHOTOGRAPHS		Photo(s) Taken By:	
Insert photo here		Insert photo here	
Photo No:	Date of Photo:	Photo No:	Date of Photo:
Description:		Description:	
Insert photo here		Insert photo here	
Photo No:	Date of Photo:	Photo No:	Date of Photo:
Description:		Description:	

Note: attach additional pages as needed.

PHOTOGRAPH EXHIBITS			
SUBJECT: INVESTIGATION PHOTOGRAPHS		Photo(s) Taken By:	
Insert photo here		Insert photo here	
Photo No:	Date of Photo:	Photo No:	Date of Photo:
Description:		Description:	
Insert photo here		Insert photo here	
Photo No:	Date of Photo:	Photo No:	Date of Photo:
Description:		Description:	

Note: attach additional pages as needed.

s.22





Certificate of Inspection

Idaho Aquatic Invasive Species Inspection

All watercraft and conveyances are required to be inspected and certified by a designated Idaho State Department of Agriculture invasive species inspector.



s.22

Watercraft Registration Number _____ State AR Month / Date / Time of Inspection MAR 11 3:30 AM/PM PM

INSPECTED

Station 3 Idaho

MAR 11 2014

Inspection Location and Date (stamp)

Clean, Drained, Dry:

Watercraft/conveyance inspected & determined to not be transporting invasive species. Watercraft is clean, drained & dry.

HWY 93

Notes: Out of water since JAN - Summer

Disclaimer: This certificate is a proof of inspection at the time of inspection. Certificate may be used to expedite but not take place of any further watercraft inspections within the state of Idaho or region. Watercraft must still stop at any inspection station encountered in the future.

From: [Lane, Aaron](#)
To: [Hanratty, Jeff ENV:EX](#)
Subject: RE: Zebra or Quagga
Date: Wednesday, March 12, 2014 9:11:29 PM
Attachments: [image001.png](#)

Jeff,

This is all I have at the moment, I gave the rest of his paperwork back to him.

Cardinal boat movers

s.22

Thanks again

Aaron Lane

Border Services Officer/Agent des services frontaliers
Port of Osoyoos/Bureau d'Osoyoos
202 97th St, Osoyoos, BC, V0H 1V1
Aaron.lane@cbsa-asfc.gc.ca
Phone - 250-495-7518
Fax - 250-495-7692
Government of Canada/Gouvernement du Canada



Canada Border Services Agency
Agence des services frontaliers du Canada

From: Hanratty, Jeff ENV:EX [<mailto:Jeff.Hanratty@gov.bc.ca>]
Sent: March 12, 2014 9:08 PM
To: Lane, Aaron
Subject: RE: Zebra or Quagga

Aaron,

Thank you very much for the photos. Can you also send me what you have on the hauler, copy of certificates, licence plate numbers etc. any phone numbers?

Etc.

I need to write up a continuation report for the morning shift guys to follow up on.

JH

Jeff HANRATTY
Conservation Officer
South Okanagan Zone
250-490-8214

From: Lane, Aaron [<mailto:Aaron.Lane@cbsa-asfc.gc.ca>]
Sent: Wednesday, March 12, 2014 9:03 PM
To: Hanratty, Jeff ENV:EX
Subject: Zebra or Quagga

Hey Jeff,

I spoke with Matthias and he is going to follow up with it.

Thanks again for your help

Aaron Lane

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Canada Border Services Agency Agence des services frontaliers du Canada

From: [Lane, Aaron](#)
To: [Hanratty, Jeff ENV:EX](#)
Subject: Zebra or Quagga
Date: Wednesday, March 12, 2014 9:04:10 PM
Attachments: [image001.png](#)
[IMG_2869.JPG](#)
[IMG_2870.JPG](#)
[IMG_2872.JPG](#)
[IMG_2875.JPG](#)
[IMG_2876.JPG](#)

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Canada Border Services Agency Agence des services frontaliers du Canada









From: [Herborg, Matthias ENV:EX](#)
To: [Cottam, Nick ENV:EX](#)
Subject: FOI Request MOE-2014-00194 FW: Quagga/Zebra Mussel
Date: Thursday, July 17, 2014 3:20:13 PM
Attachments: [image001.png](#)
[IMG_2869.JPG](#)
[IMG_2870.JPG](#)
[IMG_2872.JPG](#)
[IMG_2875.JPG](#)
[IMG_2876.JPG](#)

From: Lane, Aaron [mailto:Aaron.Lane@cbsa-asfc.gc.ca]
Sent: Wednesday, March 12, 2014 8:50 PM
To: 'jeff.hanratti@gov.bc.ca'
Cc: Herborg, Matthias ENV:EX
Subject: Quagga/Zebra Mussel

Hi Jeff,

Here is the info requested, as well as pictures of the mussels.

Cardinal boat movers

s.22

Thanks

Aaron Lane

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Canada Border Services Agency Agence des services frontaliers du Canada

From: [Herborg, Matthias ENV:EX](#)
To: [Cottam, Nick ENV:EX](#)
Subject: FOI Request MOE-2014-00194 FW: Mussel samples arrived
Date: Thursday, July 17, 2014 3:23:48 PM

From: Lockwood, Josh ENV:EX
Sent: Tuesday, March 18, 2014 9:46 PM
To: Herborg, Matthias ENV:EX
Cc: Leslie, Barb ENV:EX
Subject: Re: Mussel samples arrived

Thank you Mattais for your reply I have a couple of ones that I picked off the boat that are dead that I will use for public education and out reach and anything else that we can use for training the local officers thanks again for your assistance

SGT. J. D. Lockwood
Sent from my iPhone

On Mar 18, 2014, at 20:14, "Herborg, Matthias ENV:EX" <Matthias.Herborg@gov.bc.ca> wrote:

Hi Josh

your mussel samples arrived today, I had a look at them, and all of the bigger ones I oppened, and while I was worried that they were firmly shut and I had to force them open, once I got in, there was no tissue whatsoever in them, meaning they were definetly completly and utterly dead, for a long time, matching the statement that the boat has been sitting out of the water for several month.

I will add them to my collection, or do you want some for education and training?

Thanks

Matthias

Matthias Herborg, Phd
Aquatic Invasive Species Coordinator
BC Ministry of Environment
Pho: 250-356-7683
Email: Matthias.Herborg@gov.bc.ca
Victoria, BC

From: [Herborg, Matthias ENV:EX](#)
To: [Cottam, Nick ENV:EX](#)
Subject: FOI Request MOE-2014-00194 FW: Please mussel vessel to below location
Date: Thursday, July 17, 2014 3:21:38 PM

From: Lockwood, Josh ENV:EX
Sent: Thursday, March 13, 2014 10:58 AM
To: Herborg, Matthias ENV:EX
Cc: Beck, Jim L ENV:EX
Subject: Please mussel vessel to below location

Kelowna

Petro-Canada, 1855 Ross Road Hwy #97 S, Kelowna BC
night parking spaces (TS)

250-769-3500	View Map	Check Reviews		Add
Review	Navigation	StreetView		

SGT. J. D. Lockwood
Sent from my iPhone

From: [Herborg, Matthias ENV:EX](#)
To: [Cottam, Nick ENV:EX](#)
Subject: FOI Request MOE-2014-00194 FW: Quagga/Zebra Mussel
Date: Thursday, July 17, 2014 3:24:30 PM
Attachments: [image001.png](#)

From: Lane, Aaron [<mailto:Aaron.Lane@cbsa-asfc.gc.ca>]
Sent: Monday, March 31, 2014 12:40 PM
To: Herborg, Matthias ENV:EX
Subject: RE: Quagga/Zebra Mussel

Hi Matthias,

Thank you for your concern, but I have subsequently found CBSA SOP's that outline what to do if Zebra mussels are found and they clearly direct me to contact provincial authorities. Also, section 107 of the customs act allows me to share information with outside agencies if it pertains to the health or safety of a person, or threats to the environment. I will not be reprimanded in any way, everything I did was within the law and policy.

Yes for sure, I have no problem with using this as an example for training. I will double check here with management to make sure they are ok with it. I look forward to receiving any of the training that you plan to do, any of the information about the mussels is information that I found on my own.

Thank you very much for timeline and manual I will be reading through that for sure.

Thanks again for all your assistance in this matter, I am really happy with the way it turned out.

AARON LANE

Border Services Officer/Agent des services frontaliers
Port of Osoyoos/Bureau d'Osoyoos
202 97th St, Osoyoos, BC, V0H 1V1
Aaron.lane@cbsa-asfc.gc.ca
Phone - 250-495-7518
Fax - 250-495-7692
Government of Canada/Gouvernement du Canada



Canada Border Services Agency
Agence des services frontaliers du Canada

From: Herborg, Matthias ENV:EX [<mailto:Matthias.Herborg@gov.bc.ca>]
Sent: March 31, 2014 12:02 PM
To: Lane, Aaron
Subject: RE: Quagga/Zebra Mussel

Hi Aaron

I just want to use this opportunity to really thank you for your pro-active action, thanks to your vigilance we were able to deal with this boat in a timely fashion. I am planning to work with CBSA to deliver training to you and your colleagues around the provincial legislation and pending federal legislation and if you are Ok with it, I would use this incidence as an example of what could and should be our approach to how CBSA can be part of the response.

Since I have heard someone mention that you might have been reprimanded for these actions I wanted to check first, and also if you need got into trouble there is anything we can do on the Provincial side to express our gratitude towards your actions.

I am also attaching a timeline of events so you know what happened to the boat following your call, and also my general training manual for your information

Thanks again

Matthias Herborg

Matthias Herborg PhD
Aquatic Invasive Species Specialist
BC Ministry of Environment
Pho: 250-356-7683
Cell: 778-679-4147
PO Box 9338 Stn Prov Govt
Victoria, BC, V8W 9M1

From: Lane, Aaron [<mailto:Aaron.Lane@cbsa-asfc.gc.ca>]
Sent: Wednesday, March 12, 2014 8:50 PM
To: 'jeff.hanratti@gov.bc.ca'
Cc: Herborg, Matthias ENV:EX
Subject: Quagga/Zebra Mussel

Hi Jeff,

Here is the info requested, as well as pictures of the mussels.

Cardinal boat movers

s.22

Thanks

Aaron Lane

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Canada Border
Services Agency

Agence des services
frontaliers du Canada

From: [Herborg, Matthias ENV:EX](#)
To: [Cottam, Nick ENV:EX](#)
Subject: FOI Request MOE-2014-00194 FW: zebra mussels
Date: Thursday, July 17, 2014 3:22:52 PM

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

From: Lockwood, Josh ENV:EX
Sent: Friday, March 14, 2014 3:13 PM
To: Christy Hamilton
Cc: Herborg, Matthias ENV:EX
Subject: Re: zebra mussels

Thank you for forwarding those documents and thank s.22 again for his cooperation... This was an excellent opportunity for public outreach and education around invasive species

Thanks respectfully

SGT. J. D. Lockwood
Sent from my iPhone

> On Mar 14, 2014, at 15:11, s.22 <cardinalboatmovers@live.ca> wrote:

>

> Good afternoon

>

s.22 asked me to send you this information, if you have any question please call s.22
s.22 There will be another email with photo's attached.

s.22

> Cardinal Boat MOvers

> <g2.pdf>

> <g1.pdf>

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To: [Cottam, Nick ENV:EX](#)
Subject: FOI Request MOE-2014-00194 FW: zebra mussels
Date: Thursday, July 17, 2014 3:23:19 PM

From: Lockwood, Josh ENV:EX
Sent: Friday, March 14, 2014 4:09 PM
To: Herborg, Matthias ENV:EX
Subject: Re: zebra mussels

Your package was shipped Purolator 20 minutes ago and should arrive Monday by noon packaged in glass bottle with bottled water added

SGT. J. D. Lockwood
Sent from my iPhone

On Mar 14, 2014, at 15:21, "Herborg, Matthias ENV:EX" <Matthias.Herborg@gov.bc.ca> wrote:

Hi

Thanks for the documentation, based on the invoice from the company that removed the boat from the water, and the discussion with s.22 and Josh I am fine for the boat to be released and go into the lake.

Thanks for your cooperation

Matthias Herborg

Aquatic Invasive Species Specialist
BC Ministry of Environment

From: s.22 [<mailto:cardinalboatmovers@live.ca>]
Sent: March-14-14 3:11 PM
To: Lockwood, Josh ENV:EX
Cc: Herborg, Matthias ENV:EX
Subject: zebra mussels

Good afternoon

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Regards s.22

Cardinal Boat MOvers

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Subject: RE: Zebra or Quagga
Date: Wednesday, March 12, 2014 9:11:29 PM
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Cardinal boat movers

s.22

Thanks again

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To: Lane, Aaron
Subject: RE: Zebra or Quagga

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Etc.

I need to write up a continuation report for the morning shift guys to follow up on.

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Jeff HANRATTY
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South Okanagan Zone
250-490-8214

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To: Hanratty, Jeff ENV:EX
Subject: Zebra or Quagga

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Thanks again for your help

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To: [Hanratty, Jeff ENV:EX](#)
Subject: Zebra or Quagga
Date: Wednesday, March 12, 2014 9:04:10 PM
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Canada Border Services Agency Agence des services frontaliers du Canada

CONSERVATION OFFICER SERVICE CONTINUATION REPORT

COORS #: 201401308

Case Description:

Enforcement Routing Sheet #13-5381

Complaint Received By: YVONNE (Yvonne Sinclair)

Date / Time received:

2014-03-12 18:15

Area: OSOYOOS - **PENTICTON - SOUTHERN INTERIOR REGION**

COORS OR#:

CALLER INFORMATION

Caller Name: OFFICER LANE
Mail / Street: BORDER PATROL
Address:
City:
Postal Code:
Referred By:
Contact Numbers
 Business 250-495-7518

VIOLATION DETAILS

Violation Date: 03/12/2014 **Violation Time:** ongoing now **Violation in Progress?** Yes

Violation Type: FISHERIES

Offense Witnessed:

Offense Location:

US/Canada border

Offense Details:

Advises he has a boat coming through and it has mussels on it. The boat is being trailered.

1819 Briefed CO Jeff Hanratty.

1828 emailed CO.

DESCRIPTION

Name (if known)				
Description	Sex	Race	Height	Weight
	Eyes	Hair	Glasses	Smoker
	Build	Complexion	Distinguishing Features	
Clothing				
Vehicle				
Weapons				
Other Details				
	Sex	Race	Height	Weight
	Eyes	Hair	Glasses	Smoker
	Build	Complexion	Distinguishing Features	
Name (if known)				
Description	Sex	Race	Height	Weight

CONSERVATION OFFICER SERVICE CONTINUATION REPORT

2014-03-13 20:00 HERBORG advised CO HANRATTY that he has been working with a truck driver today on an inbound boat from s.22 destined for Kelowna that it is a clean boat with an Idaho inspection certificate. CO HANRATTY advised sounds like the same boat but the CBSA agent has advised that there are adult mussels on the outside of the boat. HERBORG seemed unconcerned and stated we could look into the issue tomorrow. Likely the boat was headed for a major overhaul and repaint before being sold anyway. HERBORG advised s.13

s.13
HERBORG agreed to follow up on the details and confirmed he would contact the CBSA tonight.

2014-03-13 20:15 HANRATTY briefed LANE and requested photos.

2014-03-12 21:08 CO HANRATTY received photos which appear to be Zebra mussels and Quagga mussels. LANE confirms he was in contact with HERBORG and that he will follow up on it tomorrow.

2014-03-12 21:11 CO HANRATTY received the following information from LANE:

s.22
Cardinal boat movers

2014-03-13 09:00 After receiving messages from CO HANRATTY and reading the previous night's occurrence report, CO STERN called Mathais HERBORG (Aquatic Invasive Species Coordinator) to update the status of the file. HERBORG. CO STERN put the call on speaker phone and called in Sgt Jim BECK and CO HAMILTON to participate in the call. This is a summary of the call:

- HERBORG has been in contact with CBS staff and the truck driver that was bringing a large boat through the USA / Canada border at Osoyoos
- The boat was held up at the border and overnighted at the CBS compound
- The reason the boat was held up was because the boat required a pilot car (over-width). The US pilot car turned around at the border and a Canadian pilot car would be necessary
- HERBORG was aware that there were mussels on the boat but the hull had been recently repainted and had been out of the water for a period of time.
- Sgt BECK was insistent that the best way of dealing with this was to not allow the vessel to proceed into BC.
- HERBORG reported that CBS had communicated that they had no authority to detain the boat for mussel contamination because it was provincial legislation.
- Sgt BECK commented that all that was needed was communication to the driver that if he proceeded into BC he would be in violation of the Wildlife Act for possessing or transporting mussels and his vessel could be seized and there were fines up to \$100,000.00 and that should be effective in keeping the vessel

CONSERVATION OFFICER SERVICE CONTINUATION REPORT

and hence the threat out of BC

-
-
-
-
- HERBORG felt that the vessel should be allowed to continue as it had been inspected in Idaho and deemed to be clean. It had an inspection certificate. It had also been out of the water since January.
- Sgt BECK commented that the presence of mussels in the photographs supplied by CBS contradicted this information and we should not take any risks as the consequences would be detrimental to the millions if mussels get established in BC. The inspection certificate should be of no effect.
- HERBORG felt the risk was negligible and wanted to work with the industry. He was concerned that if we did not work with them that there would be problems with co-operation in the future. This hauler stated that his company brings about 400 vessels a year into BC.
- Sgt Beck expressed concern that the optics of this was that the Province was not taking the issue of mussels seriously enough and we should not be making concessions.
- s.13 the belief that the boat has been out of the water for more than 30 days etc., HERBORG felt that the vessel should be allowed to be hauled to Kelowna where it would be cleaned.
- Sgt BECK conceded that HERBORG was the Aquatic Invasive Species Coordinator and it was his call to make.
- There was discussion as to where the vessel could be cleaned. HERBORG said the portable high pressure wash equipment was not available in the Kelowna area.
- As the vessel would be going to Kelowna, it was communicated that Sgt LOCKWOOD of the North Okanagan would be brought into this as he was more familiar with commercial cleaning facilities that could be used.
- HERBORG suggested that a CO would be necessary to oversee the inspection and cleaning arrangements.
- The call ended with the understanding that the vessel would be allowed to be hauled to Kelowna and Sgt Beck contacted Sgt LOCKWOOD.

2014-03-13 COS BECK, HAMILTON and STERN contacted Matthias HERBORG to follow up on the requirements for the boat.

March 13, 2014

At 0930 hrs this date Sgt. Lockwood received a call from Sgt. Beck of the South Okanagan Conservation Officer Service regarding a motor vessel that had departed the Canadian border services agency location in Osoyoos British Columbia with a controlled alien species mussel attached to the vessels. Sgt. Lockwood contacted the Victoria

CONSERVATION OFFICER SERVICE CONTINUATION REPORT

controlled alien species coordinator Matthias Herborg and was supplied contact information for the motor vessel hauler s.22 operating Cardinal boat moving. Sgt. Lockwood contacted s.22 at the telephone number supplied. The operator of Cardinal boat moving was advised that the motor vessel would be detained once it arrived in Kelowna as it had controlled alien species mussels attached to the structure of the motor vessel. Lockwood ascertained with Mattias Herborg that the motor vessel could be secured on a large gravel parking lot at s.22 as that would be an adequate place to decontaminate the motor vessel prior to it being entered into BC waters.

At 1030 hrs. Lockwood advised Cardinal boat moving that the vessel would be met at the pre-destined location of s.22 he operator was in agreement that the boat would be held at that location until it could be decontaminate. Lockwood contacted to mobile wash companies that have equipment suitable for spraying down and decontaminating the motor vessel. This information was supplied to the owner operator of Cardinal boat moving who confirmed an appointment four 0830 hrs. on March 14, 2014 to have the aqua hot wash attend and decontaminate the motor vessel, this would be at his cost.

At 1145 hrs. Lockwood met with s.22 and Cardinal boat moving, at this time the motor vessel s.22 him was him and detained under the federal fisheries act for having controlled alien species mussels attached the section of the federal fisheries act was section 52 possessions of aquatic invertebrates. s.22 s.22 and Cardinal boat moving were extremely cooperative in this investigation. s.22 s.22 supplied documentation to Sgt. Lockwood indicating that the motor vessel had been removed from s.22 Arizona on November 9, 2013 and had a motor vessel survey conducted and the hull refinished. Lockwood photographed and obtained several specimens of muscles that were attached to the motor vessel driveshaft area. s.22 was advised that the C strains would also require inspection by a certified marine mechanic. Sgt. Lockwood had departed the area and s.22 was allowed to process the motor vessel on the gravel area as depicted by Matthias Herborg as being suitable.

At 1430 hrs. Lockwood contacted s.22 and made arrangements to meet at the s.22 examine the decontamination process that was going to take place by aqua hot wash.

March 14, 2014

At 0830 hrs. Sgt. Lockwood attended shelter bay area and observed the process that was taking place to decontaminate the motor vessel as earlier depicted. Aqua hot wash had attended the location and was in the process of applying hundred and 60° steam heat and water to the area of contamination on the motor vessel the vessel was also being looked at by Genesis Marine mechanics who had removed the water hoses from the engines and located several mussels in the water screens. These muscles were collected in a Styrofoam container and returned to the conservation office in Kelowna.

CONSERVATION OFFICER SERVICE CONTINUATION REPORT

Several documents were e-mailed to Sgt. Lockwood from Cardinal moving company indicating that the vessel had been out of the water since November 9, 2013 therefore the controlled alien species should be dead.

At 1035 hrs. Lockwood contacted the controlled alien species coordinator in Victoria and advised of the work that had been done and the situation in which the vessel had been decontaminated. At this time it was determined that the boat would be safe to enter BC waters and Matthias Herborg contacted the contracted both s.22 and Cardinal boat hauling, allowing the motor vessel to be placed into BC waters as they were satisfied the boat had be decontaminated

At 1530 hrs. Sgt. Lockwood contacted the controlled alien species coordinator in Victoria and arranged to have several specimens of the muscles shipped to that location for examination to determine if they were active or dead. Lockwood attended at Purolator express and shipped a glass container to Victoria containing the file and mussels.

March 17, 2014

Sgt. Lockwood contacted Matthias Herborg and ascertained that the muscles that had been sent were in fact analyzed and determined to be dead. This avoided any introduction of the muscles into British Columbia waters.

March 25, 2014

A conference call took place chaired by inspector Leslie regarding a debrief of this file and any future introduction of controlled alien species into British Columbia waters notes are attached to the file regarding the minutes of this meeting.

March 26, 2014

Sgt. Lockwood has completed this investigation file and forwarded it into the administrative inbox for production of a Coor's report. Although this file has been concluded it is apparent that the us will be an ongoing issue throughout the boating season with in the Okanogan. Work plans will be adjusted to ascertain times and locations where check stations in conjunction with the controlled alien species coordinator may be set up to divert any future introduction of the mussel species into British Columbia waters

This file will be concluded at this time should more information come to light regarding this file or future violations this file may be reopened at any time for prosecutorial purposes... Concluded here

Attached Officer Notes

Notes of CO Bob Hamilton re: the mussel incident at Osoyoos CBS.

CONSERVATION OFFICER SERVICE CONTINUATION REPORT

May 14, 2013

CO HANRATTY issued Warning letter to s.22 of Cardinal Boat Movers. Despite the fact that moving the boat with mussels into BC was authorized by Mathias HERBORG it remains illegal under the CAS and WLA. CO HANRATTY wants to be clear with Cardinal Boat Movers that the process must be to remove all mussels alive or dead before the vessel is brought into British Columbia.

J.D.LOCKWOOD

Sgt.J.D. Lockwood

X

Supervisor

Page 72 redacted for the following reason:

s.22



