AGRICULTURE AND

THE NECHAKO RIVER AND RIO TINTO

PRESENTATION

By Lyla Brophy

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1. Timely Communication

- Need for notice of intention to raise the water level of the river approximately 4 days before the gates at Skins Lake are actually opened whether by e-mail, phone, etc.
- This is needed to be able to plan cattle movement when needed. This may be a good plan for recreation and hunting considerations also.
- Many places on the river have no access to cell phone coverage in case of an emergency.

2. Fences

The raising and lowering of the river waters creates problems with the fences to control cattle. They are washed out when river rises at higher speeds. When the river is low, cattle are able to go around the end of the fences. Hence there is no control.

3. Erosion

- Damage as shown in pictures. At least 2 farms have lost at least 3 acres each due to floods or high moving water.
- Another ranch has been able to save their land a few years ago by hauling rocks in to create stability on their river banks.
- One ranch is in danger of losing their well very soon.

4. Irrigation

- Problems occur when water too high or too low.
- At extra high water the irrigation pumps and equipment are flooded and can be ruined. Equipment can be moved higher if knowledge is conveyed to the ranchers and the farmers soon enough.
- When the water is low the irrigation equipment cannot reach the water to put on their lands.
- Ice jams have caused problems when water backs up into the irrigation equipment. One rancher lost his pump house, pump and all electric equipment. Several have lost their pumps over the years.

- BC Code of Practice for Agri-Enviromental Management
 This code deals with fertilizer, manure etc. as
 - applied near different water sources. See Code.

FEATURE

New Code

NEWCODE IN FORCE THIS FALL

By now you have likely heard that the new regulations replacing the old agricultural waste ones are coming into effect, but do you know what it will mean for you? As you read in Beef in BC (May/June 2019, pp 34-35) there is a new agricultural environment regulation that all BC ranchers and farmers need to be aware of – the Code of Practice for Agricultural Environmental Management or "the Code". The Code applies to all agricultural operations in BC, including the beef industry.

Why the new changes?

As written in the May article, the new rules are intended to provide additional clarity through more clearly outlining the requirements for agriculture, while improving the protection of the environment.

What do you need to know in 2019?

As a rancher it is important for you to know how these changes will immediately affect your ranch. While the Code is being phased in over the next 10 years, there are a several requirements that should be on the producer's radar starting in 2019. In this Beef in BC article, we will touch on two of these: soil testing and records. Future articles are planned that will cover additional topics.

Soil testing

If you apply manure, compost or fertilizers or any other nutrient sources containing nitrogen (N) or phosphorus (P) to fields, you are now required to have post-harvest soil nitrate test results and soil test phosphorus from within the last three years. These should be what you are using to help inform your nutrient application rates. This does not include areas that

receive manure directly from livestock, only manure that is collected and applied to land. If you have not taken soil tests in the last three years, samples must be taken after your last crop harvest, but before manure or nutrient applications this fall.

- The post-harvest soil nitrate test is intended to quantify any residual nitrate left in the soil at the end of the growing season. Samples for nitrate should be collected to a depth of 30 cm (12 inches) in the fall or early spring.
- If the post-harvest nitrate test result is over 100 kg N/ ha (25 ppm for a 30 cm/12 in sample) the area needs to be sampled again the following year.
- Each sample for post-harvest nitrate should be representative of areas with similar management (crop, fertilizer applications, and irrigation) and soil.
 Fields or sections may be grouped if they are similar as long as all areas are sampled accordingly.
- See the Ministry of Agriculture's website for more information and recommendations on soil sampling and testing. (Also see page 26 for more information)

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Application of manure, fertilizer, or compost

- Manure, fertilizer, or compost must not be spread on frozen or snow-covered ground.
- In high-precipitation areas (found mostly on the South Coast), no manure should be applied during November, December, or January.
- Note: High precipitation areas are defined as areas receiving over 600mm of rainfall between October 1st and April 1st. You can find out if you are in a high precipitation area by visiting: https:// governmentofbc.maps.arcgis.com/apps/MapSeries/ index.html?appid=c16cde73574c43da877674f423 304ae9
- In high precipitation areas a risk assessment should be completed in October, February, and March before any manure is land-applied. An online risk assessment tool will be available from the Ministry of Agriculture.
- Manure, fertilizer, and other sources of nitrogen must not be applied in excess of the crop nitrogen requirement.

There are now specific setbacks from watercourses, wells, and property boundaries for spreading fertilizer and manure.

- Keep surface applied manure 3 meters away
- · Keep fertilizer or injected manure 1.5 meters away
- Keep 30 meters away from drinking water sources like wells or surface water diversion points

Records

Keeping records of your farm activities will help show that you are meeting the expectations of the new regulation. Records are not required to be submitted to anyone but must be kept at least five years as your own back up and could be requested during an inspection by provincial environmental protection staff. If asked, you need to be able to show your records within five days of the request. Records can take many forms and it is likely ranchers are already keeping the information needed. Records can include receipts, Form 3s, and information documented in notebooks or pads. How the records are kept is not as important as the type of information that needs to be included in the records.

If requested, you should be able to provide records within five days that show:

- Animal numbers and the amount of manure generated on farm. Records should indicate how much of the manure is used on farm and amounts of any manure exported to other operations.
- If manure leaves the farm operation, records are required to document the overall amount, and if in lots of 5 m3 (6.5 yards3) or greater include a log with lot size and receiver information.

- If you have manure stored temporarily (see note below re: temporary storage of manure) in the field, keep a weekly monitoring record.
- Use of commercial fertilizers and other nutrient sources containing N and P, such as manure or compost, on forage (hay, silage, pasture) land. Record how much, what product, when, and where.
- Yields for fields that are fertilized (ie., how much hay did you produce – number and type of bales and weight).

A complete list of activities requiring records can be found through the Agricultural Environmental Management website: www.gov.bc.ca/Agricultural-Environmental-Management

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* Antouiture	Agriculture Environmental Management	Procedure Information
* Reputation Requirements Apricultural Binlers	On February 28, 2010, the Code of Practice for Agricultural Environmental Management replaced the Agricultural World Control Birgulation (AWCR).	For procedural information and beat practices visit the links being
Muthacos Compost Facilities Standitor & Postory	 Read the Code of Practice for Aprilultural Environmental Management Why a new regulation? 	Anticultural Waste Massourcest Bactices Campacity Processments, Causa, Matter Hercicles Massourcest Massourcest Massourcest Nations Management Family Sacyther & Postmany Causaber & Postmany
Processing * Aquaculture	The regulation was developed to help ensure applicational practices are consistent with the protection of clean, safe clienting uniter and cleans at its provides cleaner, straightforward and environmentally sustainable regularments for the minage and	
Foel Tanks * Mining & Smolling	use of manuer, other notices in sources and again that are neared. Learning or about the for requirements of the near require long and how it applies	
OR Gas & LNG	largine.	
* Puls Paper & Wood Manufacturing	Who does this regulation apply to?	Metro Vancouver
White Boyship Environmental Compliance	The reputation applies to apricultural operations in British Columbia, from small hobby faces to large commercial operations.	Memo Vancouver (IIVIE)) has Jurisdiction to manage some
	The new regulation has been built with the understanding that not all against trial oparations are the store, and not all regions of the province are the same Various rules will apply to different agricultural operations depending on the location, sae and type of activity.	egito-thost activities through bylaxs: - <u>Anderotic dipertion</u> Institutements
	Key Changes	Boller or heater regularation
	Risk-based approach: requirements are tailored to environmental rule, operations in high-risk areas and chaing high-risk conditions sill need to take more protective measures.	Contact Information
	- <u>Many are available</u> to detention if you are operating in a high cluk asas.	Any questions specific to the new regulation should be e-mailed
	Science-based approach to outrient management. Fainters will need to collect and samples to determine what measures need to be taken to minimize the risk of examples indirect loss to the evolutionneed on their specific faints.	to ALM: of examines browbe ca For general quartions, please e- mail envolutional Victorial rooks.

Un hebruary 28, 2019, the Code of Practice for Agricultural Environment Management replaced the Agricultural Waste Control Regulation (AWCE To learn more visit the website https://www2.govbc.ca/gov/content/ environment/waste-management/industrial-waste/agriculture



his interactive map tool shows the geographic high precipitation are throughout B.C.

A high precipitation area is an area that receives 600 mm or more of precipitation between October 1 and April 30. To access the map, visit https://bit.ly/33GPCTP

Feedback

After contacting 31 of 36 licensees for irrigation, I found that –

3 people were completely happy with Rio Tinto and the river.

4 people were troubled with erosion plus 1 person had their problem solved.

1 person who represents 3 licensees had problems with an ice jam.

5 people have to replace fences every year, some

short areas and some long areas.

Several have lost irrigations pumps over the years

due to high water levels.

Feedback (2)

9 people have emphasized the need for earlier communication.

1 person said that Rio Tinto has all the information they need for their situation.

All persons feel the need for a more stable river. This would reduce erosion, loss of fences, loss of irrigation ability and limit cattle movement across the river.

Lyla Brophy Nechako Valley Regional Cattleman's Association





















