

Report Date:March 21, 2018 File:UA81126

Report Number:081126

NYRSTAR MYRA FALLS LTD. Myra Falls Operations PO Box 8000 Campbell River BC V9W 5E2

Dear NYRSTAR MYRA FALLS LTD.

## **Inspection Details:**

Requirement Description:	Environmental Management Act, Environmental Management Act	
	6 (2): Subject to subsection (5), a person must not introduce or cause or allow waste to be introduced into the environment in the course of conducting a prescribed industry, trade or business.	
Details/Findings:	This inspection report concerns an unauthorized discharge (Seep) from Nyrstar Myra Falls Ltd. (Nyrstar), the seep located approximately as shown on Photo 1 (attached). The seep was first discovered as a result of sampling activities related to monitoring following an overflow at the Superpond (reference Dangerous Goods Incident Report (DGIR) 173626 and Ministry of Environment and Climate Change Strategy (ENV) Inspection Report (IR) 77735) overnight of January 20 and 21, 2018. Following the finding, Nystar reported the Seep under separate DGIR (reference DGIR 173846) on February 6, 2018. Nyrstar's authorized waste discharges are described in ENV permit 6858.	
	Nyrstar submitted a summary report (Report, attached) to ENV via email on March 8, 2019 which summarizes Nyrstar's investigative and work activities conducted since the Seep discovery, as well lists further activities to mitigate potential impacts resulting from the Seep.	
	According to the Report, the seepage zone is "down gradient from the Lynx Tailings Dan Facility and the Superpond water treatment system" and, "The precise cause of this seepage zone is not yet known" (p 1). The Report theorizes that the Seep may be due to changes to groundwater direction and movement resulting from earlier activities at the site.	
	Samples analyzed for toxicity (results attached) taken in Myra Creek (location "Myra Creek @ 25 Sump") on January 29, 2018 produced the following results (% v/v):	
	96 hour LC50 Rainbow Trout: 58.5 [41.8 – 91.7] 48 hour LC50 Daphnia magna: 70.7 [50.0 – 100]	
	The Seep is not an authorized discharge under waste management permit 6858; therefore Nyrstar is introducing or causing or allowing waste to be introduced into the environment in the course of conducting a prescribed industry, trade or business without authorization. As such, Nyrstar is out of compliance with EMA 6(2).	

Compliance:	Out	
Actions to be taken:	The Seep is not an authorized discharge. authorized manner, therefore must cease of	Nyrstar may only discharge waste in an discharge to the environment via the Seep.
Discussion:		
a result of high dissolved zind		pH and elevated metals, and that toxicity was like es that there is currently no evidence of impact to blicable drinking water standards.
receive the study with recom-	mendations in September of this year. Nyrs	drogeology of the seepage zone and expects to tar has provided a list of measures to attempt to own at this time if the measures will reduce or
analysed and shown to be to unknown, and it is unclear wh Order would include the requend of September, 2018, as	xic to aquatic organisms. The long-term ran nether the short-term actions will reduce or irement to go forward with the QP report to well as the requirement to take measures was seep is controlled and contained in a manner	r. The discharge that is occurring has been nifications of exposure to the discharge are prevent the Seep entirely. The recommended be completed as described in the Report by the rithin 30 days of receipt of the Order to mitigate er that it is no longer entering the environment in
Please be advised that this in	spection report may be published on the pro-	ovincial government website within 7 days.
If you have any questions abo	out this letter, please contact the undersigne	ed.
Yours truly,		
Laura Hunse Environmental Protection Offi cc:	cer	
Attachments:		Deliver via:  Email: Fax: Mail: Mail: Hand Delivery:

Telephone: 250 751 3100 Facsimile: 250 751 3103

Website: www.gov.bc.ca/env

Ministry of Environment and Climate Change Strategy Compliance
Environmental
Protection Division

Mailing Address: 2080-A Labieux Rd Nanaimo BC V9E 6J9 Telephone: 250 751 3100
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## DISCLAIMER:

Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.

To see the most up to date version of the regulations and codes of practices please visit <a href="http://www.bclaws.ca">http://www.bclaws.ca</a>

If you require a copy of the original permit, please contact the inspector noted on this inspection record.

It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.