



NWB Tools

Richard Dwyer <richard.dwyer@nwb-oen.ca>

1AR-POL1531 Long Term Limnology, Water Quality and Effluent Monitoring Program

Richard Dwyer <richard.dwyer@nwb-oen.ca>

Fri, Mar 1, 2019 at 8:31 AM

Draft To: Derek Donald <derek.donald@nwb-oen.ca>

----- Forwarded message -----

From: **Derek Donald** <derek.donald@nwb-oen.ca>

Date: Wed, Feb 27, 2019 at 2:15 PM

Subject: 1AR-POL1531 Long Term Limnology, Water Quality and Effluent Monitoring Program

To: Donald Bruce KIMB <Bruce.Donald@teck.com>, <Michelle.Unger@teck.com>

Cc: Licensing Department <licensing@nwb-oen.ca>

Hi Michelle

I have completed a review of the Long Term Limnology, Water Quality and Effluent Monitoring Program submitted to the NWB on January 24, 2019, and have one comment that will need to be addressed and the plan updated.

In the Monitoring Plan provided, on page 3, end of section 2, it states that "Oil and grease will be measured only if there is a visible sheen present." And on Page 6, section 3.2.1, it states "Group 4 (TSS only)."

The Licence requires under Schedule H, that all parameters in Group 4, including Oil and Grease, be monitored at Garrow Creek (station 262-7, "Outlet of Garrow Lake at former siphons discharge") regardless of a visible sheen. Condition H14 of the Licence states, "The Licensee shall, upon observation of a visible sheen of Oil and Grease during a sampling event, obtain additional samples to be analysed pursuant to Part E, Item 4."

It is recommended that these sections of the plan be updated to ensure that the complete suite of Group 4 parameters (including Total suspended solids (TSS); total arsenic (As); total copper (Cu); total lead (Pb); total nickel (Ni); total zinc (Zn); total mercury (Hg), total cadmium (Cd); oil and grease), be analyzed during the sampling event this year (2019).

If you have any questions don't hesitate to give me a call, 867-360-6338 (ext. 32).

Regards,
Derek

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From: **Derek Donald** <derek.donald@nwb-oen.ca>

Date: Wed, Feb 27, 2019 at 4:53 PM

Subject: Fwd: 1AR-POL1531 Long Term Limnology, Water Quality and Effluent Monitoring Program

To: <Michelle.Unger@teck.com>

Hi Michelle

One more quick question. Was monitoring of Garrow Lake and Garrow Creek conducted in 2014 (or any year since 2011)? Monitoring in 2014 was recommended in the 2013 Azimuth report, but I see there was some discussion following that. However, it looks like Teck committed to a August 2014 sampling event but the NWB has no record of this.

If the monitoring was conducted, can you provide me with a copy of the report. If not, can you provide a brief explanation as to why.

Thanks,
Derek

Derek Donald- $\cap \triangleright \cup^b \dot{\subset} \supset^c$

Technical Advisor - Conseiller technique ᐱᓕᑦᑐᒃᑐᓂᑦᐅᑦ ᐃᔭᑦᓇᓂᑦ
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