

**From:** Sabrina Sturman  
**Sent:** May 12, 2016 1:25 PM  
**To:** 'Stanley Yee'  
**Subject:** RE: GBL - 2015 Water Licence Annual Report  
**Attachments:** Conformity Check - S15L8-001 - Annual Report - Apr 11\_16.pdf

Good afternoon Stan,

Attached is a conformity check complete for the 2015 Annual Report (AR) and supporting documentation. I will proceed with the public review of the AR once outstanding items identified in the check have been addressed.

Please review and let me know if you have any questions and/or concerns.

Regards,

Sabrina

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**From:** Stanley Yee [mailto:Stanley.Yee@aandc-aadnc.gc.ca]

**Sent:** May 6, 2016 11:25 AM

**To:** Sabrina Sturman <sabrina.sturman@slwb.com>

**Subject:** Re: GBL - 2015 Water Licence Annual Report

Hi Sabrina,

Sounds good, we'll chat next.

Have a nice weekend!

Stan

>>> Sabrina Sturman <[sabrina.sturman@slwb.com](mailto:sabrina.sturman@slwb.com)> 5/6/2016 11:10 AM >>>

Thank you Stanley,

I do have some comments on the AR submitted however had been holding off on providing until I had received the complete submission package. I am a little swamped today but anticipate being in touch early next week.

Best Regards,

Sabrina

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**From:** Stanley Yee <[Stanley.Yee@aandc-aadnc.gc.ca](mailto:Stanley.Yee@aandc-aadnc.gc.ca)>

**Sent:** 06 May 2016 11:04:43

**To:** Sabrina Sturman

**Subject:** Re: GBL - 2015 Water Licence Annual Report

Hi Sabrina,

Please see attached, the finalized 2015 Terra Mine Water Quality Report.

Regards,

Stanley

>>> Stanley Yee 3/31/2016 4:43 PM >>>

Hi Sabrina,

As per Condition 7, Part B of the Great Bear Lake Mine Sites Water Licence (S15L8-001), please see attached our Annual Report and associated

documents.

The Final Terra Mine Water Quality Report is being prepared and will be provided shortly.

Respectfully Submitted,

Stanley

Stanley Yee, M.Sc.  
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**S15L8-001 – GBL Remediation – 2015 Annual Report – Conformity Check**

Schedule 1, Part B requirements	Included in INAC-CARD's 2015 AR
a) the monthly and annual quantities in cubic metres of fresh water obtained from all sources;	<input checked="" type="checkbox"/>
b) the monthly and annual quantities in cubic metres of each and all Waste(s) discharged;	<input checked="" type="checkbox"/>
c) an itemized list indicating the names, uses and quantities of all substances which were used during the remediation and reclamation operation;	<input checked="" type="checkbox"/>
d) a summary of all remediation and reclamation activities as they relate to Water use and Waste disposal;	<p>The Board received the 2015 Water Quality Monitoring of Terra Mine Report on April 6, 2015. Please note that logistical considerations resulted in minor revision of scope (surface water monitoring not possible at two reference stations).</p> <p>The Sawmill Bay PHC remediation field report (Arcadis, 2015) has not been provided with the AR package. The soil lab results demonstrate there are still exceedances, which the AR suggests will be removed before Sept 1, 2016, and the Field Report would provide valuable context for activities complete.</p> <p><b>Please submit the Sawmill Bay PHC remediation field report.</b></p>
e) tabular summaries of all data generated under the "Surveillance Network Program"	<p>Annex A, Part B 1 requires any Water collected at SNP Station S15L8-001(4) – Camsell River intake &amp; S15L8-001(5) – Great Bear Lake intake be sampled at the beginning of the construction (and/or care and maintenance) season and sampled monthly thereafter for duration of site activities and analyzed for the list of parameters provided on pg. 15 of 18 of the WL.</p> <p>Details in the 2015 AR (Table 3) reference the incorrect SNP Station Number as well suggest the intake locations are not applicable as no treated sewage disposal, grey water or treated process water were discharged. However, section i) of the 2015 AR indicates that roughly 2.8 m<sup>3</sup> of water was taken from Camsell River.</p> <p><b>Please confirm that all data generated for the SNP has been provided.</b></p>
f) a list of unauthorized discharges;	<p>Details provided in section f) suggest no unauthorized discharges however section g) indicates that the drum reconnaissance conducted Sept 2015 at Terra Mine site revealed that drums have leaked an estimated 16,750L over time which was reported as a spill to the AANDC Inspector and to NWT Hazardous Materials Spills.</p>

	<p>This part of the AR should reference the spill reported to the AANDC Inspector with the corresponding Spill Report Number as well as note the two hydrocarbon releases documented in the Sept 1, 2015 Inspection Report from the August 26, 2015 inspection which were required to be reported to the NWT/NU spill line. Board staff had initially been copied on correspondence related to follow up from the Sept 1, 2015 direction which suggested CARD had reported both releases in a single report however clarification of whether two reports were required was not received.</p> <p>Accordingly, the Board was not aware that the inspector had authorized an extension to Sept 1, 2016 for removal of remaining PHC soils from the Sawmill Bay airstrip.</p> <p>Board staff also remind the Licensee that when an unauthorized discharge of Waste occurs, Part H (Conditions Applying to Contingency Planning) applies and Item 5 c) should be implemented (report the authorized discharge to the Board within 24 hours).</p>
g) the details and results of the required Annual Summer Site Inspection;	<p>Details provided in this section primarily reference the AANDC Inspection(s). Board staff remind the Licensee that the Annual Summer Site Inspection is a requirement of the Licensee under Part E, Item 3 and have noted that this part incorrectly references Item 1 rather than 2 which outlines the scope of the inspection. This clerical error will be corrected when the requested name change is processed at the next available Board meeting (anticipated in June).</p> <p>Board staff recommend details related to required follow-up for unauthorized discharges (i.e. regulatory required) are reported in section f and that it is appropriate to summarize care and maintenance activities here as it relates to mitigation measures in place (or required) while awaiting the remediation activities to be implemented.</p>
h) the details and results of the Water Quality Monitoring Plan;	<b>Please confirm this monitoring is planned with the 2016 activities.</b>
i) a camp set-up schematic for each phase;	<input checked="" type="checkbox"/> Details provided, map is not necessary as stayed at the onsite administrative building at Terra
j) a summary of all remediation and reclamation activities carried out at each site during the previous calendar year, <b>including progress made to develop the schedule for Phase II and III implementation, and a description of any work planned by the Licensee for the upcoming year;</b>	<p><b>Please provide a description of work planned by the Licensee for the upcoming 2016 season.</b></p> <p>Board staff note that support of the <a href="#">extension request from CARD on Nov 4, 2015</a>; which was <a href="#">granted on Nov 6, 2015</a>, regarding the submission deadline for the required updated Water Quality Monitoring Plan (as per Part E, item 1 of S15L8-001) was in consideration of the Project Status Update included in CARD's request that indicated water quality monitoring would be implemented in 2016 as described in the current WQMP and Sawmill Bay Remedial Action Plan, with full details to be provided to the Board in advance of commencement of activities. <b>Please confirm this monitoring is planned with the 2016 activities.</b></p>
k) any revision to the Engagement Plan;	<p>The Engagement Plan submitted on May 26, 2015 had not been approved by the Board as part of the issuance of the WL renewal (see <a href="#">July 24, 2015 Issuance letter</a>) and an update is required. Board staff note that an updated Engagement Record/log has been provided with the most recent activities in January 2016. <b>Please confirm the details of the Engagement Log and submit a revised Engagement Plan for Board approval.</b></p>

l) any revisions to the Spill Contingency Plan, once approved by the Board;	<input checked="" type="checkbox"/> <b>Please confirm that submission will be prior to commencement of 2016 site activities (i.e. barrel cleanup at Terra).</b>
m) any revisions to the Waste Management Plan, once approved by the Board;	The Board has not received a Waste Management Plan for this project. <b>Please confirm that submission will be prior to commencement of 2016 site activities (i.e. barrel cleanup at Terra).</b>
n) any revisions to the approved Remedial Action Plan(s);	<input checked="" type="checkbox"/>
o) any other details on Water use or Waste Disposal requested by the Board by March 31 <sup>st</sup> of the year being reported; and	As outlined in the <a href="#">WL renewal issuance letter</a> , the Board required the Annual Report include a discussion on progress toward the development of Phase II and III of the complete remediation program, and a section on the status of the Denison Winter Road Land Use Permit with the MVLWB (MV2011E0007). <b>Please provide additional information to address this requirement.</b>
p) a map depicting all the SNP Stations with GPS locations	<input checked="" type="checkbox"/> n/a at this time