

Attachment 1 - Baffinland Response to NIRB Recommendations - Dec 8, 2018 Responses

Table 1: Baffinland Responses to 2017-18 NIRB Monitoring Report Request for Information to Recommendations due in 30days

NIRB Comment NIRB Recommendation Baffinland Response Baffinland recognizes NIRB's request to improve Noise and Vibration Monitoring The Board requires that Baffinland Condition 14 of the Project Certificate develop an action plan to comply with the monitoring frequency of noise and vibration requires Baffinland to conduct noise and Project Certificate Term and Condition 14 monitoring on the Project and has already by improving noise and vibration successfully implemented measures to improve vibration monitoring at Project accommodations during all phases of the monitoring at site through improved the monitoring program. In 2018 Baffinland Project, particularly during the summer and seasonal sampling and increased sample engaged an external noise and vibration expert winter seasons. In Baffinland's 2017 Annual sizes and frequency of monitoring of consultant, RWDI, to develop and implement a Monitoring Report to the NIRB, the Proponent noise and vibration levels, particularly at testing program at the Project Site and to provide stated that in June 2017, one (1) room at the the Mine site and Milne Port training to Baffinland staff on new equipment. accommodation facilities. The action Mine Site and two (2) rooms at the Milne Port plan must highlight measures designed to site were tested for noise and vibration levels. In June 2018, RWDI, completed a noise and ensure that noise and vibration levels Baffinland further reported that due to vibration testing program on accommodation equipment malfunction and availability issues continue to be monitored across the complexes at the Mine and Port Site. that could not be resolved before the end of Project and the safety of workers Accommodation complexes that were tested for 2017 it was unable to conduct the scheduled maintained in the event of additional impact and steady state noise safety thresholds winter noise and vibration monitoring during equipment malfunctions in future. registered below recommended levels. the 2017 period. The NIRB's 2017 Board Baffinland must also provide an analysis Accommodation complexes that were tested for 4 Recommendation #5 had specifically of any observed seasonal variation in vibrational exposure thresholds registered below requested that Baffinland improve its noise noise and vibration levels (summer vs. recommended levels. Results support that there and vibration monitoring program across winter) and a discussion of the is no risk of noise or vibrational harm to Project sites; however, during the current implication of such variations (if any) on employees while residing in dormitories and reporting year the NIRB noted that the workers' health and safety onsite. accommodations. recommended changes to the noise and It is requested that this action plan be vibration monitoring program has yet to be provided within 30 days' receipt of the A winter testing program is planned for the end Board's recommendations. fully implemented and is still data deficient. of 2018 to compare seasonal differences. It is The NIRB also questions the validity of noteworthy that summer is the busiest season at Baffinland's conclusion regarding the seasonal Site entailing more construction and activity than variation of noise/vibration levels between winter. It is anticipated that levels of noise and the two (2) sites as indicated in the 2017 vibration would remain the same or be reduced. Baffinland plans to continue its annual Noise and Annual Report due to the relatively low sample size (Mine site=1; Milne Port=2) and Vibrational testing in 2019 with two seasonal lack of consideration for seasonal changes in sample events (winter and summer) at five noise/vibration levels across the project sites. locations per site and will continue to report the results in the NIRB annual reports. **Used Tires** The Board requires Baffinland to provide Baffinland continued to make significant progress During the 2018 site visits, it was noted that continued reporting regarding how it has on used tire management in 2018. Starting in used tires are a significant waste stream implemented measures within its Tire mid-2017 the current used tire stream is across the Project sites, particularly around Management Plan for re-treading, reuse, organized and stored in designated seacans at the Mine site and Milne Port, and as noted in or offsite disposal of tires generated from the Mine Site and Milne Port tire shops. These the 2016 and 2017 site visits. During the the site. Baffinland must implement an seacans are then sent offsite for disposal during August 2018 site visit, NIRB staff noted that organized method of storing and sealift backhaul activities. several of the used tire piles are now removed relocating tire piles across the Project As planned and committed to do in 2017, the vast and stored in seacans for shipping and consistently moving forward. majority of historical tire piles at Milne Port were disposal offsite. In general, the state of tire It is requested that an update regarding processed and organized into seacans in 2018. disposal has significantly improved during the this recommendation be provided within site visits in 2018. the next 30 days to the Nunavut Impact Approximately 11,700 of both used and historical 19 Review Board. tires were backhauled from Milne Port in 2018. Baffinland is currently developing an action plan to process the historical tire pile in Mary River for backhaul offsite during the open water season in 2019. As part of this plan, Baffinland is maximizing the use of the ore haul truck fleet during poor weather conditions that prevent use of the Tote Road to move historical tire piles into the seacans. Where possible, Baffinland uses and repurposes tires for barriers, berms and ballasts across the site. Waste Landfill The design and installation of the perimeter The Board directs Baffinland to improve During both the April and August 2018 NIRB the quality of fencing around the fence has been a priority action item for site visits, it was noted that all of the perimeter of landfill sites to reflect Baffinland. Throughout 2017 and into early 2018 protective mesh around the landfill area were industry best practices for these Baffinland proposed a number of different designs for the landfill fence and had several completely removed from the supporting operations. Landfill litter fences must be poles similar to previous site visit of sufficient quality and height and conversations with NIRB monitoring officers on encircle the entire landfill area to ensure observations in 2014, 2015, 2016, and 2017, the development of the designs. Following a final that waste materials are not dispersed and the newly installed wooden fence around design criteria taking into consideration future 20 the facility was observed to be insufficient to offsite. Baffinland must include evidence expansion of the landfill, all materials were ordered in early 2018. contain the landfill footprint, thereby of this issue being satisfactorily addressed within its annual reporting in increasing the risk of wind-blown debris from future. It is requested that an update the facility. The NIRB further notes that the In September 2018, Baffinland completed the regarding implementation of this installation of a perimeter fence downwind condition of the fencing around the landfill direction be provided within the next 30 around the active portion of the landfill. during the 2018 site visits have not significantly improved compared to previous days to the Nunavut Impact Review

Board, and with updates included within

As soon as the materials arrived on the sealift,

construction commenced on August 20 following

years. Further, the NIRB's 2017 Board

Recommendation #31 requested that



| NO. | NIRB Comment | NIRB Recommendation | Baffinland Response |
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| | Baffinland continue to evaluate its need for an | the Annual Reports to the Nunavut | NIRB's site visit and was completed on |
| | upgraded litter fence around the active areas | Impact Review Board moving forward. | September 18, 2018. The installed fence is 215 |
| | of the landfill in the light of changing environmental conditions at site. | | meters in length, eight feet tall and made up of two-inch galvanized chain link heavy gauge |
| | environmental conditions at site. | | meshing with a tire base (see Photo 1 and 2). |
| | | | meshing with a tire base (see Frioto I and 2). |
| | | | Baffinland intends to expand the fence |
| | | | progressively with the landfill expansion of |
| | | | additional cells and will provide further updates |
| | | | in subsequent annual reports to the NIRB as |
| | | | relevant. |

Photo 1: Landfill perimeter fence installed September 2018 facing south-west



Photo 2: Landfill perimeter fence installed September 2018 facing north-east

