Appendix 3

NWB 2022 Annual Report Commitments

| Authority | Торіс | Reference to comments | Regulator's Comment |
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| CIRNAC | IVR Pit Geochemical Characterization | Table 5-3; NIRB Project Certificate | Table 5-3 of the 2022 Annual Report summarizes the geochemical Acid Rock Drainage (ARD) detern the IVR Pit, the proportion of Potentially Acid Generating (PAG) rock increased from 2% in 2021 to 8 CIRNAC whether the increase is consistent with design expectations at the time the Whale Tail Min |
| CIRNAC | Whale Tail Project Pit Sump Water Quality/Quantity | Meadowbank Complex 2022 Annual Report: Sections 8.5.3.2.4 and 8.5.3.2.5; Appendix 6-H to the Whale Tail Project Expansion Environmental Assessment (Figure 6); NIRB Project Certificate No. 008, Term and Conditions 8,15, and 16 | The quality and quantity of water reporting to the Whale Tail Project pit sumps during operations is closure. This is particularly important for arsenic, which is considered to be a contaminant of poten quantity of water reporting to the pit sumps is consistent with Environmental Assessment predictic In the case of the IVR pit, the Whale Tail Project Expansion Environmental Assessment predicted th approximately 1.5 mg/L. The 2022 Annual Report indicates that arsenic concentrations in the IVR pi reporting to the pit sump is greater than originally predicted. The combined increase of arsenic con well above Environmental Assessment predictions. Increases have also been noted for the Whale T It is unclear to CIRNAC what influence the increased arsenic loadings to the pit sumps will have on p what factors resulted in the higher than anticipated arsenic loadings and whether any adjustments |
| CIRNAC | Whale Tail Project Pit Sump and Attenuation Pond Water Quality Variability | Annual Report: Section 8.5.3.2; NIRB Project Certificate No. 008, | Section 8.5.3.2 of the 2022 Annual Report presents summaries of water quality monitoring data for there is a high degree of temporal variability between sampling events. To illustrate, the following a •May 29, 2022 = 0.676 mg/L •June 10, 2022 = 4.29 mg/L •June 19, 2022 = 0.645 mg/L Based on this example, arsenic concentrations spiked approximately six times on June 10 (to levels weeks. Similar concentration swings are observed for other parameters and sampling locations in p aluminum and nutrients). It is unclear to CIRNAC what factors are causing the observed temporal variability in water quality ir environmental management are unclear. For example, it is not clear if the elevated arsenic concent Whale Tail South Lake in April 2022. |
| CIRNAC | Meadowbank Landfill Burning | Meadowbank Complex 2022 Annual Report: Section 6.1.1.2; NIRB Project Certificate No. 004, Amendment 003: Term and Condition 24 | Section 6.1.1.2 of the 2022 Annual Report states: "In December 2021, the Meadowbank land information in the Annual Report or supporting documents indicating the causes, environmental im |
| CIRNAC | Spill Management Action Plan | Annual Report: Section 7.1; NIRB | Based on the description provided in the 2022 Annual Report, the above-noted initiatives represen does not include detailed findings and recommendations related to these initiatives. For example, i |
| CIRNAC | Annual Closure Planning Update | Meadowbank Complex 2022 Annual Report: Section 9; NIRB Project Certificate No. 004, Amendment 003: Term and Conditions 78,79, and 80; NIRB Project Certificate No. 008, Amendment 001: Term and Conditions 7 and 13 | measures that are being put in place. Section 9 of the 2022 Annual Report provides high-level discussions of the closure planning and implanning process, ongoing studies, information gaps and progressive reclamation. While CIRNAC ap questions and comments regarding the closure planning process for the Meadowbank and Whale T have been submitted in prior annual report reviews conducted by CIRNAC. While these questions and comments could be deferred until the submission of formal closure plan of the view that a more active dialogue on closure planning is justified. This is particularly important scheduled to begin active closure within three years (i.e., by 2026). Taking into consideration the re and regular dialogue between AEM, regulators, and interested parties would be beneficial. This wo approval and implementation of an appropriate site closure strategy in a timely manner. |
| CIRNAC | Whale Tail Revised Water Quality Predictions | Annual Report: Appendix 13, Appendix D; Meadowbank Complex 2021 Annual Report: Appendix 13, Appendix D; Final Environmental Impact Statement | In addition to the increases noted above, arsenic concentrations in Mammoth Lake (as shown in the predictions. They are also predicted to be approaching the applicable CCME effluent quality criteric |

| | Regulator's Recommendation | Agnico Eagle's Response to Comments |
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| | CIRNAC recommends that AEM: 1. Indicate whether the 2022 PAG ratio for the IVR pit (i.e., 82%) is consistent with design expectations at the time the Whale Tail Mine Expansion was approved. | 1. Table 5-3 of 2022 Annual report contains an error. T NPAG in IVR pit is more consistent with previous year content. |
| 82% in 2022. Based on a review of prior project documentation, it is unclear to e Expansion was approved. | 2. Indicated how the higher (i.e., if higher than the original prediction) PAG ratio for IVR will influence environmental performance and waste rock management practices during operations and WRSF closure strategies. | 2.As described in response above, the PAG ratio prese from the approval of the Whale Tail Mine Expansion. |
| | | 3. As described in response above, the PAG ratio prese from the approval of the Whale Tail Mine Expansion. |
| | | 1. The following graphs present the water quality forecast base Predictions for the FEIS were developed using a model (Golder 2 |
| s relevant to the post-closure water quality of the pit lakes that will form during | CIRNAC recommends that AEM: | Geochemical testing results were used in the model. At the tim Mass loads (or water volume and concentrations) to model no Predictions were developed for various nodes (e.g., WRSF pon runoff may differ than assumptions used in the model. The higher arsenic load reporting to the pit sumps could be due conditions and water is not pumped out as often as Whale Tail I |
| | 1. Confirm if arsenic loadings to the Whale Tail and IVR pits, as indicated by sump monitoring, | There are no fixed coordinates to the IVR Pit/sump sampling loc References: Golder. 2018. Addendum Mine Site and Downstrea |
| at the maximum concentration of arsenic in the IVR Pit sump in 2022 would be it sump are roughly three times greater, at 4.5 mg/L. Further, the volume of water | are greater than the conservative predictions presented in the FEIS documents for the project. 2. Describe the factors contributing to the pit sumps having arsenic loadings that are higher than | 2.See response above. |
| centrations and volumes will result in total arsenic loadings to the IVR nit that are | predicted in the FEIS (e.g., pit wall seepage). | 3. For the 2023 Annual Report Water Quality Forecast Agnico E |
| nost-closure water quality in the flooded nit. CIRNAC was also unable to identity | 3. Indicate any modifications that will need to be made to the Whale Tail and IVR Pit closure strategy to ensure that water quality in the pit lakes will serve as viable aquatic habitats. | Improving the modelling of arsenic loading in the water quality Note that for IVR Pit, per the Interim Closure and Reclamation F |
| to the closure strategy would be necessary. | | such mitigation on the exposed pit walls prone to arsenic leachi It should be noted that as per the ICRP, following completion of |
| | | environment. Routine pit lake water quality monitoring will be u |
| | | As per the Water License 2AM-WTP1830, Part E, condition 9: "T site-specific water quality objectives, such as the predictions in I assessment must be conducted to identify Site Specific Water Q Reclamation and Closure Plan." |
| the Whale Tail and IVR pit sumps and attenuation ponds. CIRNAC notes that arsenic concentrations were measured in the Whale Tail Pit sump (see Table 8-44): | | 1 Following the internal investigation, the unexpected Attenuation Pond for storage prior to treatment in the details. |
| | 1. Clarify if the elevated arsenic concentrations in attenuation ponds were a factor in AEM's non- compliant discharges to Whale Tail South in April 2022. | 2.See response to CIRNAC 3.2. |
| | | 3. The temporal variability of concentrations in the pit WTP) for water quality treatment, prior to discharge to |
| | 3.Discuss any potential implications of the temporal variability on the site's environmental performance during operations and the post-closure phase. | See response to CIRNAC 3.2-3 for the approach to upd |
| | 4.Provide an assessment correlating any instances of in-pit filling of contact/saline water and the dates of the sampling conducted in the pit. | 4. In 2022, there was no in-pit filing of contact water / License requirements, when water is available in the p frequency is performed in order to characterize the in |
| | | The cause of the landfill fire cannot be proven to an ac likely cause could be from improper waste segregation |
| | CIRNAC recommends that AEM provide a detailed description of the causes, environmental impacts and mitigations associated with the burning of the Meadowbank landfill. | During the investigation, preventative measures were departments to review and communicate the expecta process for roll off operators when dumping at the lan |
| | | Lastly, no environmental impacts associated with the I which includes the monitoring of water quality in the s |
| ve measures are reportedly tracked for completeness. t improvements in AEM's spill management approach. The 2022 Annual Report | CIRNAC recommends that AEM provide the details, findings and recommendations of all new spill management initiatives in future Annual Reports. This should include, but not be limited to: the new spill action plan, the spill FMEA and any new corrective measures. | Agnico Eagle acknowledge CIRNAC'S comment and wil |
| t does not describe the new spill action plan, the spill FMEA and the corrective plementation process. For example, the section describes the state of the closure | | |
| preciates receiving these descriptions, the Department has a wide range of ail sites. As summarized in Appendix A, many of these questions and comments | CIRNAC recommends that AEM convene an annual workshop with regulators and interested parties within the next 120 days to discuss the closure planning status for the Meadowbank and Whale Tail Mines. | Agnico Eagle acknowledges that active dialogue on c planning and closure engineering concepts, for both N |
| | | The submission of the next version of the Interim Clo and interested parties will be presented, for the rema shall submit the Final Closure and Reclamation Plan to |
| or the Whale Tail site. The predictions for some parameters are substantively | | The model platform used for the 2022 annual forecast was changed from the platfor Arsenic mitigation applied to Whale Tail and IVR pits (ICRP assumes mitigation only a higher runoff coefficient The water quality for the different input streams to the model is based on the yearly The model was not re-calibrated with the most recent monitoring data. |
| oject. Notably, the following parameters are now predicted to exceed the FEIS | CIRNAC recommends that AEM: | Changes in the model platform and model assumptions can produce variable results. |
| dictions presented in the 2021 Annual Report and, in some instances, above the ic life). This situation is demonstrated in the following two plots for total | 1. Provide a detailed table describing the factors that contributed to 2022 water quality predictions being higher than one or more of the following: a) FEIS predictions, b) predictions from 2021, and c) predictions that exceed environmental quality criteria. | However, monitoring data (example arsenic figure included by CIRNAC) do not show a lithium, and several ionic compounds at WTS and MAM in one or more sampling even Plan. Routine water quality monitoring will continue in 2023 to track emerging spatial During operation, the main parameter that influences the water quality forecast in Ma |
| | 2. Describe why there is a high degree of variability between the 2021 and 2022 predictions. | For example, for arsenic, a constant % removal efficiency of 88% was used for the more forecast could trend similar to the FEIS forecast. The next water quality forecast models will provide a discussion on the factors contrib |
| on (0.025 mg/L) at the time of closure (i.e., three years from now, in 2026). | 3. Describe the approaches that will be taken to ensure significant adverse impacts do not occur for any parameters that are predicted to exceed 75% of the environmental quality criteria during post-closure. | See response to CIRNAC 3.7-1. The 2022 model is based on the site water/mass balance model and assumes complet |
| Report presents limited information regarding the factors that are contributing to | 4. Describe the studies that AEM will undertake between now and the finalization of the closure plan to verify the accuracy of water quality predictions. | The 2022 model is more conservative than the 2021 model, especially when compare 3. To ensure adverse impacts do not occur for parameters that are predicted to excee geochemistry and on-site water quality data. These additional data will contribute to i |
| dmium and phosphorous), the 2022 Annual Report presents limited information | 5. Describe if and how the higher than originally anticipated water quality predictions will affect closure strategies for the site. | It is important to note that CCME guidelines have been used for the water quality fore Plan. |
| al Report states: "At closure, no water treatment is forecasted to be required.". st-closure phase. | | The water quality forecast will be updated as additional geochemistry data and on-st in the next Interim Closure and Reclamation Plan and in the Final Closure and Reclama Currently the closure strategies for the site remain unchanged. |
| | | As per the ICRP, following completion of flooding of the open pits, the flooded pit lake be used to calibrate and update the water quality model. In-situ treatment or treatme concentrations, or appropriate site-specific water quality objectives, such as the pred |
| | | |

sponse to Comments

22 Annual report contains an error. The classification for IVR pit NPAG and PAG are mixed and should be opposite of what was presented. Refer to the table below for the corrected version. The 82 % of more consistent with previous year and with design expectation although a large percentage of this NPAG waste material remains unusable for construction & cover (closure) activity due to arsenic

response above, the PAG ratio presented in the Table 5-3 of the 2022 annual report contains an error. The corrected NPAG and PAG percentage for IVR pit are consistent with the design expectations l of the Whale Tail Mine Expansion.

response above, the PAG ratio presented in the Table 5-3 of the 2022 annual report contains an error. The corrected NPAG and PAG percentage for IVR pit are consistent with the design expectations l of the Whale Tail Mine Expansion.

hs present the water quality forecast based on the FEIS assessment against the measured values in Whale Tail and IVR Pits. The concentration of total arsenic measured in the pits in 2022 are generally higher than the FEIS forecast. IS were developed using a model (Golder 2018) and included various assumptions. For example:

g results were used in the model. At the time of model development, static test results were available but kinetic test results were not available. er volume and concentrations) to model nodes (e.g., pits, sumps) accounted for chemical loadings from natural areas and developed areas (e.g., waste rock runoff and seepage).

eveloped for various nodes (e.g., WRSF pond, pits) that were estimated based on predicted flows and chemistries and assumed exposed lithologies. The actual exposed lithology in a given mine year, or the lithology most influenced by n assumptions used in the model. bad reporting to the pit sumps could be due to a higher release of arsenic being leached from the pit walls upon contact with seepage water and runoff water, or a change in water management (IVR Pit is quite dry because of permafrost is not pumped out as often as Whale Tail Pit), and different lithology encountered than anticipated.

ordinates to the IVR Pit/sump sampling location. As noted in the annual report (Section 8.5.3.2) samples are collected from IVR and Whale Tail pit/sump when conditions are safe, and when water is present.

2018. Addendum Mine Site and Downstream Receiving Water Quality Predictions. Appendix 6-H to Whale Tail Pit – Expansion Project Final Environmental Impact Statement. December 2018.

al Report Water Quality Forecast Agnico Eagle will evaluate and if necessary re-calibrate the model using recent geochemical data (e.g., static and kinetic tests), and recent monitoring data (e.g., pits, sumps).

ling of arsenic loading in the water quality forecasts will help provide a more accurate forecast to support adaptive measures and determine if modifications need to be made to the Whale Tail and IVR Pit closure strategy.

per the Interim Closure and Reclamation Plan (ICRP), the current mitigation plan is that exposed pit walls that are prone to leach arsenic shall be sloped back and covered with overburden and rip rap. Note that the need and feasibility of e exposed pit walls prone to arsenic leaching will be evaluated and updated in the final closure plan. For Whale Tail Pit no pit wall mitigation is currently planned.

at as per the ICRP, following completion of flooding of the open pits, the flooded pit lake will meet water quality objectives and demonstrate steady state conditions to confirm the pit lake can be reconnected to the downstream receiving e pit lake water quality monitoring will be undertaken during closure and collected data will be used to calibrate and update the water quality model. In-situ treatment or treatment with the operational WTP could be done if required.

ense 2AM-WTP1830, Part E, condition 9: "The Licensee shall not breach dikes until the water quality in the re-flooded area meets CCME Water Quality Guidelines for the Protection of Aquatic Life, baseline concentrations, or appropriate ality objectives, such as the predictions in Final Environmental Impact Statement (FEIS) (...). If water quality parameters are above CCME Guidelines and/or FEIS predictions, unless otherwise approved by the Board, a site-specific risk conducted to identify Site Specific Water Quality Objectives for the site that are protective of the aquatic environment. Where they are required, Site Specific Water Quality Objectives shall be incorporated in the approved Final sure Plan."

ternal investigation, the unexpected elevated source of arsenic is believed to have originated from a new pit sump in Whale Tail Pit. Water reporting into this sump is ultimately transferred into the IVR I for storage prior to treatment in the water treatment plan, for final discharge in Whale Tail South Lake through the permanent diffusor. Refer to the Spill Follow up sent on May 27, 2022 for more

CIRNAC 3.2.

ariability of concentrations in the pits is controlled during operations by pumping water collected in the pit sumps to the attenuation ponds then sending it by the operations water treatment plant (Ouality treatment, prior to discharge to the receiving environment. The O-WTP is designed to treat Total Arsenic and total suspended solids (TSS).

IRNAC 3.2-3 for the approach to update the water quality forecast model and for closure and post-closure preparation.

vas no in-pit filing of contact water / saline water. Therefore, there is no correlation between water quality sample and in-pit filing of contact water. Samples in Whale Tail pit are taken, as per the Water ents, when water is available in the pit sumps. Water in the pit sumps come from groundwater (pit wall seep) and natural inflow such as precipitation, runoff and snowmelt. Additional sampling ormed in order to characterize the in-pit water quality.

andfill fire cannot be proven to an acceptable level of certainty as there are no eyewitness to assist in defining an area of origin or to assist in determining which ignition source caused the fire. The most be from improper waste segregation during the transfer from the roll off bin to the landfill.

igation, preventative measures were established to minimize the potential of a fire within the landfill or other areas on site in the future. Environmental awareness toolboxes were completed with all eview and communicate the expectations regarding the hazmat/waste process on site. A procedure was created to establish a fire watch after pushing new material at the landfill and an inspection f operators when dumping at the landfill. Additional signage was installed on general waste roll off bins to present acceptable material to be disposed of in the bins.

mental impacts associated with the landfill burn were measured through the various environmental monitoring program around site, including: the Core Receiving Environmental Monitoring Program, e monitoring of water quality in the surrounding lakes and the air quality monitoring program, which monitors air quality (including air particulate matter) around the project.

owledge CIRNAC'S comment and will provide more information in the 2023 Meadowbank Complex Annual Report.

nowledges that active dialogue on closure planning is justified between the involved organizations and regulators. Agnico intends to continue providing updates on progressive closure work, closure ure engineering concepts, for both Meadowbank and Whale Tail sites, through the Annual Report and the next version of the Interim Closure and Reclamation Plan.

f the next version of the Interim Closure and Reclamation Plan for Meadowbank and Whale tail is planned for 2024. In the next version of the plan, a preliminary schedule of workshop with regulators rties will be presented, for the remaining part of operation until the submission of the Final Closure and Reclamation Plans. As per the Water Licenses (2AM-MEA1530 and 2AM-WTP1830), the License inal Closure and Reclamation Plan to the Board for approval at least twelve (12) months prior to the expected end of planned mining.

for the 2022 annual forecast was changed from the platform used in the 2021 annual forecast and the FEIS. In addition, assumptions and inputs were changed for the 2022 annual forecasts. Examples include:

to Whale Tail and IVR pits (ICRP assumes mitigation only applied to IVR pit);

different input streams to the model is based on the yearly average measured values and are assumed to be constant over a given year.

example arsenic figure included by CIRNAC) do not show an increasing trend over time. In addition, results from the CREMP (see Appendix 33 from the 2022 Annual Report) concluded: Of the parameters with trigger exceedances, FEIS predictions were exceeded for total phosphorus at WTS and total alkalinity, TDS, tota npounds at WTS and MAM in one or more sampling events. Importantly, the absolute concentrations of these parameters remain low. Total phosphorus and arsenic at WTS and MAM are within the normal operating ranges and Level 0 water management strategy is in effect in 2023 as per the Adaptive Management nonitoring will continue in 2023 to track emerging spatial and temporal trends.

barameter that influences the water quality forecast in Mammoth Lake and Whale Tail South Lake is the water treatment % removal efficiency applied to the model. The % removal was calculated based on the average yearly concentration measured in the Attenuation Pond and in the treated effluent.

onstant % removal efficiency of 88% was used for the model based on the average removal of 2021 and 2022. In 2021, the average was estimated at 90% while in 2022, the average was estimated at 86% based on the analytical results take at site. By using a higher % removal efficiency over 93%, the water quality to the FEIS forecast.

ast models will provide a discussion on the factors contributing to the water quality predictions being higher than the previous predictions (FEIS and previous years model predictions) and predictions that exceed environmental quality criteria.

the site water/mass balance model and assumes completely mixed ponds. It uses as input all of the water volumes transferred on the site in 2022 and the water volumes forecasted based on an average year.

servative than the 2021 model, especially when compared to the measured arsenic values. For the 2023 Annual Report the water quality forecast model will be adjusted based on recent field measured values.

ts do not occur for parameters that are predicted to exceed 75% of the environmental quality criteria during post-closure, Agnico Eagle will first examine the WTP to ensure that it is performing at its maximum % removal. In addition, as described above, the water quality forecast will be updated with available ter quality data. These additional data will contribute to improve the models, inform on adaptive management measures, and provide better predictions of water quality for closure and post-closure.

:CME guidelines have been used for the water quality forecasting, as the final closure site-specific water quality criteria are not yet established. Further discussion on site-specific criteria will be presented in the next Interim Closure and Reclamation Plan and in the Final Closure and Reclamation

will be updated as additional geochemistry data and on-site water quality data becomes available, which will contribute to improve the models, inform on adaptive management measures, and provide better predictions of water quality for closure and post-closure. Site-specific criteria will be developed and presented nd Reclamation Plan and in the Final Closure and Reclamation Plan. tegies for the site remain unchanged.

ompletion of flooding of the open pits, the flooded pit lake will meet water quality objectives and demonstrate steady state conditions to confirm the pit lake can be reconnected to the downstream receiving environment. Routine pit lake water quality monitoring will be undertaken during closure and collected data will ate the water quality model. In-situ treatment or treatment with the operational WTP could be done if required. As per the water license condition, the dikes will not be breached until the water quality in the re-flooded area meets CCME Water Quality Guidelines for the Protection of Aquatic Life, baseline ate site-specific water quality objectives, such as the predictions in the Final Environmental Impact Statement (FEIS).

| | 2023 Annual Report Section |
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| | N/A |
| - F | Section 4 of the 2023 WT Water Management Plan presented in Appendix 14 of the Meadowbank Complex Annual Report |
| | N/A |
| | N/A |
| | Section 7 of the 2023 Meadowbank Complex Annual Report |
| e s e | Section 9 of 2023 Meadowbank Complex Annual Report |
| | Section 4 of the 2023 Meadowbank Water Management Plann presented in Appenix 13 and Section 4 of the 2023 WT Water Management Plan presented in Appendix 14 of the Meadowbank Complex Annual Report |

| Authority | Торіс | Reference to comments | Regulator's Comment |
|-----------|---|---|--|
| CIRNAC | Water Quality Prediction Models | Annual Report: Section 12; Meadowbank Complex 2022 Annual Report: Section 13; CIRNAC Technical Review Comments on the 2021 Annual Report to NWB (TRC #1); CIRNAC Technical Review Comments on | Updated water quality predictions for the Meadowbank and Whale Tail sites are presented in appendices 12 and 13 of the 2022 Annual Report. In both instances which have been extracted directly from Appendix D of Appendix 13 (similar statements are also provided in Appendix 12): 1. Table 3-1: "Water quality for the different input streams to the model is based on the yearly average measured values and are assumed to be constant over a gloadings at some points in time. For instance, loadings before, during and after freshet often vary significantly. There is a potential that the approach is missing in 2. Section 3.3: "In order to simplify the model, the mass balance model assumes that the ponds, pits and lakes are completely mixed systems. Consequently, the rivule at this time." (emphasis added) CIRNAC agrees that this approach provides only an indication of concentrations and should not be relied on as a definitive indicator of potential environmental In sufficient spatial resolution to identify localized areas with elevated concentrations (e.g., a the vicinity of effluen tiply mixed assumption in all modeling. 3. Section 3.3: "It should be noted at this point that the model should be used to evaluate at a high level the impact of operation and closure activities at the Vhi forecasted concentration should be considered as an order of magnitude estimate only considering that the model uses monthly volumes that are transferred an equality criteria. To illustrate, the following figure indicates that arsenic is predicted to approach and exceed applicable environmental quality criteria. To illustrate, the following figure indicates that arsenic is predicted to rangendaw dave concentration should reach levels that are ten times the CCME criterion. Therefore, the proximity of the current predictions to the crite reactive figure approach and exceed applicable environmental quality criteria. To illustrate, the following figure indicates that arenic is predicted to approach and exceed applicable environmental equality crit |
| CIRNAC | Mine Waste Management, Tailings Studies | | In CIRNAC's opinion, Section 5 of the 2022 Annual Report should be titled "Waste Rock Management, storage in addition to waste rock. Section 5.3.2 of the 2022 Annual Report states that "as in-pit deposition continues, updates of the hydra as ground temperature, hydraulic heads, in-pit tailings pore water quality, etc. Breakthrough curves we CIRNAC understands the above statements to represent specific commitments to undertake future st complete in the future: "As Goose Pit, Portage Pit A and Portage Pit E are mined out, faults mapping and (location, azimuth, d former and new structural information can be revisited such as existing televiewer surveys performed Central Dike area. Other available investigation results such the pit wall stability analysis or any rock co lithology contacts. Relevant information will be integrated to the revised 3D model, at closure period." |
| CIRNAC | Water Level Monitoring Data | Section 4.2 of the 2022 Annual Report | Section 4.2 of the 2022 Annual Report notes that: No water was discharged to Third Portage Lake in 2022. The lake level monitoring results presented natural variation of the lake. Water from the East Dike Seepage was discharged into Second Portage Lake in 2022. The lake level remained within the range of naturally occurring levels. No water was discharged from the Vault Attenuation Pond in 2022. |
| KivIA | Pit Lake Conductivity Profiles | Appendix 12 | Section 4.2.1 of the 2022 Annual Report states that results are presented in Table 4-3 and Figure 7 for 3 does not include the Vault Attenuation Pond, and Figure 7 only shows water levels for Third Portage In the Meadowbank Water Forecasting Update, Agnico Eagle contemplates measuring depth profiles lakes. Discussions surrounding the creation of end pit lakes with suitable fish habitat reference the pre near the bottom of the end pit lakes. Further information on the presence and stability of stratificatio fish habitat. |
| KivIA | Document Control | Appendix 37 | A large number of documents are submitted for review annually. Use of the documents control ta efficiently focus their efforts. |
| KivIA | November 28, 2022 - 29,000 Litre Fuel Spill at Km 87 on the AWAR | Management System and | Did the investigation into this significant fuel spill include a review of the training records and maint fuel? When will AEM determine if this is an insurable event for the Inuit Contractor involved in the spi |
| ECCC | Weather Data | Appendix 50 Meadowbank and Whale Tail 2022 Air Quality and Dust Monitoring Reports, Section 2.4 Weather Data and Appendix A | Section 2.4 Weather Data mentions the availability in Appendix A of daily averages for wind speed, wi permanent climate station. This section also refers to a wind sensor installed at the DF-7 monitoring s monitoring can be used to help identify sources of pollutants as needed, based on wind direction. Acc However, there are multiple issues with the climate station data as presented in Appendix A. For exan days in early April, and average temperatures mostly exceed +50C from June 21st through July 2nd. Th |
| DFO | Fish Passage at Road Crossings | Appendix 46: Whale Tail Haul Road Management Plan Version 4 | Culverts crossing fish bearing waters along the AWAR and WTHR requiring repair maintenance. |
| NWB | 2AM-MEA1530, 2AM-WTP1830 | – Section 7.1.2 2022 Annual Report | Annual report does not identify issues with culverts affecting fish passage. Annual report does not pro The Licensee provides a redundant information pertaining to requirements of other government bodi |
| NWB | 2AM-MEA1530, 2AM-WTP1830 | 2022 Annual Report | The geotechnical inspection resulted in a number of recommendations pertaining to: • East Dike • Bay-Goose Dike • Stormwater Dike • Central Dike • AWAR • Whale Tail Mine Road • Quarries • Issues with geomembranes andfor Baker Lake Tank Farm • Whale Tail Mine Tank Farm • Whale Tail Mine Tank Farm • Contaminated Soil Storage and Bioremedial Landfarm Facility |
| NWB | 2AM-MEA1530, 2AM-WTP1830 | 2022 Annual Report | The open pit geomechanical inspection resulted in recommendations pertaining to: • Goose Open Pit North Wall • Pit A B Dump - Lower Dump Platform • Pit A B dump Upper Dump Platform |

| | Regulator's Recommendation | Agnico Eagle's Response to (|
|---|---|---|
| ances, the reports describe the general modelling approaches. Key aspects of these approaches include the following statements, er a given year." In the opinion of CIRNAC, the use of annual average input streams represents a potential underestimation of ing intra-year peak events that are environmentally significant. . the results from this model provide an indication of the concentrations in these areas and should not be considered as an absolute tal impacts. On multiple occasions, CIRNAC has expressed a concern that the "fully mixed" modelling assumption fails to provide lated May 29th, 2023), AEM stated that the modelling presented in the 2022 Annual Report had been modified to address this e Whale Tail Mine site on the future water quality in the WT Pit / WTN Basin, the IVR Pit, Mammoth Lake and WTS Lake. The ed around the site and assumes a fixed water quality concentration for each input stream over time." (emphasis address the e "order of magnitude" approach is not sufficient for an operating mine that is approaching closure, particularly in instances where ted to approach the CCME effluent quality criterion (I0.025 mg/L). Given that predictions are only accurate to within an order of e criterion represents a potential concern that warrants more detailed modelling. mment, AEM indicated (in a May 29, 2023 letter to NWB) that appropriate modifications would be made to the 2022 Annual recommended changes had been made. odynamic model is required to simulate the discharge of treated effluent in these lakes, which is beyond the scope of this study." and effluent plumes, seepage from WRSFs, seepage from pit walls, etc. Consequently, the modelling cannot evaluate localized t that some parameters are near or above applicable environmental quality criteria (see the arsenic figure presented above under predict potential project impacts. It is unclear to CIRNAC whether AEM is planning to perform hydrodynamic modelling in the termine if it is possible to sample the pit wall runoff safely. Consider advancing the hydr | | The water quality forecast m vary the input stream water qu and this is not something AEM of 2. Hydrodynamic modelling is a adaptive management. Agnico 3. Sensitivity analysis will be per Results will be included in the n 4.Further geochemistry analysis water quality data from the pits |
| nt Activities," given that this section also discusses ore stockpile(s) and tailings hydrogeological model will be performed at the closure period using site data such s will be reviewed at this time to adapt the Groundwater Monitoring Plan." e studies. In contrast, the following statements describe actions that AEM might h, dip, aperture) could be carried out in each of the current final pit shells. Other ned in a few geotechnical boreholes, specifically in IPD boreholes and in the k core logging database could be also reviewed to identify main fracture zones or od." | CIRNAC recommends that AEM: a) Revise Section 5 title to reflect that the section contains information on more than waste rock b) provide a timeline for future studies that AEM has committed to be carried out, ensuring that they will be done ahead of closure, not at closure. c) clarify whether AEM intends to carry out the studies identified above that have been discussed as "could be carried out". | Section 5 of the Annual Repo As mentioned in the Interim is observed by existing instrume monitoring program. The detail submitted twelve (12) months p It should be noted that hydroge per the Pore Water Monitoring post-closure. Geotechnical and geomechar analysis, geotechnical drilling fo presented in the Final Closure a |
| ed in Table 4-3 and Figure 7 show that the average water level is within the rel monitoring results presented in Table 4-3 and Figure 7 show that the lake level for both the Vault Attenuation Pond and Turn Lake. This is not the case as Table 4- age and Second Portage Lake. | CIRNAC recommends that AEM update Table 4-3 and Figure 7 to include both the Vault Attenuation Pond and Turn Lake water level. | Section 4.2.1 mentioned that no the annual report mentioned th water level are presented in Ta Attenuation Pond is not intendo |
| es of conductivity in the pits to determine the presence of stratification in the pit presence of a chemical gradient, with higher concentrations of dissolved solids ition in the pits would assist in evaluating the suitability of these lakes for providing | | Measurement of pH, temperati the stratification of the Goose water quality sampling in the pi |
| tables to outline changes in subsequent document versions enable reviewers to | Agnico Eagle should ensure the pages and sections modified in subsequent document versions is reflected in the document control table. | Agnico Eagle acknowledges Kivl |
| intenance records of mobile equipment for the Inuit Contractors used for hauling spill? | The KivlA would like to see the requested information at AEM's earliest convenience | Agnico Eagle completed a full ir actions was submitted under th |
| wind direction and temperature from the Meadowbank and Whale Tail og site to measure hourly average wind speed and direction. ECCC agrees that wind Accurate wind measurements may also assist with diagnosis of fugitive dust events. xample, the temperature sensor appears to be locked at or near -49.5C for several . The wind sensor malfunctioned from April 28th through May 5th. | ECCC requests that AEM perform a first order quality control of the weather data from the climate station, with an emphasis on wind speed and direction; the primary comparison of wind data would be with the sensor at DF-7 with the Baker Lake NAVCAN Station as a secondary station. Erroneous data should be subsequently flagged. | Following this recommendatior records. In the meantime, Agnic considered to be the most appr with trends suggestive of instru April 28 – May 8 (zero values re |
| provide a plan for repair/replacement. | Proponent to provide a plan for repair and/or replacement of damaged and obstructed culverts prioritizing repairs to culverts with potential to affect fish passage and those affecting fish and fish habitat along Whale Tail Haul Road and AWAR. | Agnico Eagle acknowledges DFC with the implementation plan. |
| odies (wildlife, socio-economic, etc.). | Please limit the documentation package to the required. | Agnico Eagle acknowledges the |
| | Please address the recommendations | Agnico Eagle acknowledges the |
| | Please address the recommendations. | Agnico Eagle acknowledges the |

ity forecast model uses a monthly time-step for water movement. In theory, it may be possible to integrate to the model a monthly time step with regard to water quality and assess if it is possible to eam water quality over time. This will be investigated further for both the Meadowbank and Whale Tail water quality forecast model. Note that this would add another level of complexity to the model nething AEM can guarantee is possible for the next iteration of the model.

modelling is another type of tool used to predict possible future conditions but models that assume fully mixed conditions are appropriately conservative and can be used to support operations and ment. Agnico Eagle will consider a hydrodynamic model but cannot guarantee this is possible for the next iteration of the model, or even if it could be completed on an annual basis.

ysis will be performed for next year's water quality forecast model for a few key parameters. For example: runoff volumes to manage for a dry and wet year, increase in arsenic loading from pit walls, etc. luded in the next Water Quality Forecast Reports.

mistry analysis and additional pit sumps water quality data will be integrated when available to the yearly updated water quality forecast model. Strategies are being developed to obtain additional in situ a from the pits.

e Annual Report will be titled "Waste Rock and Tailings Management Activities" as this section includes details on waste rock and tailings management on site.

n the Interim Closure and Reclamation Plan (Update 2019, March 2020), the hydrogeological model will be updated at the end of in-pit deposition operations, unless significant change in thermal regime isting instrumentation. The thermal and hydrogeological modelling during operation will be used as a predictive tool, along with field observations, to adapt the closure and post-closure groundwater am. The details of the thermal and hydrogeological modelling, as well as the closure and post-closure groundwater monitoring program, will be presented in the Final Closure and Reclamation Plan, to be (12) months prior to the expected end of planned mining (Water Licence No: 2AM-MEA1530, Part J, condition 1).

d that hydrogeology and groundwater are monitored on site during operation as per the Groundwater Monitoring Plan (Version 11, March 2020), and that in-pit tailings pore water is also monitored as er Monitoring Plan (Version 2, March 2020). Data collected during operation will support the in-pit hydrogeological modelling post-deposition and the groundwater monitoring program for closure and

nd geomechanical data for the Portage and Goose pits have been collected during the mining period, prior to in-pit tailings deposition. Relevant data from rock mechanics inspections, pit wall stability nical drilling for instrumentation or groundwater wells, as well as the geology rock core database gathered prior to in-pit deposition will be integrated to the revised hydrogeological modelling, to be Final Closure and Reclamation Plan.

ntioned that no water was discharged from the Vault Attenuation Pond in 2022 and the elevation measurement of Wally Lake was ongoing in 2022 and provided in Table 4-3 and Figure 7. For Turn Lake, : mentioned that lake level monitoring results are presented in Table 4-3 and Figure 7. Agnico Eagle acknowledges CIRNAC's comment and recognize an error in the text as both Wally Lake and Turn Lake esented in Table 4-3 but not included in Figure 7. Agnico Eagle will make sure to include Wally Lake and Turn Lake elevation in the figure in future annual report. Elevation of the internal structure Vault l is not intended to be provided, per previous years.

pH, temperature, dissolved oxygen, and conductivity at different depths in Goose pit have been completed in 2022. Additional profiles will be completed in 2023. These results will provide information on N of the Goose pit and will be discussed in the pits water quality forecast model. Based on the results, additional profiles may be completed during the operation period before closure. The program for pling in the pits for closure and post-closure, including the reflooding period, will be based on the pit water quality model predictions and will be presented in the Final Closure and Reclamation Plan.

nowledges KivIA's comments and will continue effort to ensure pages and section modified in subsequent document update are adequately outline in the document control section.

pleted a full investigation of the incident at KM87 including training, maintenance records and operating procedures. A follow-up spill report outlining the details of the spills, corrective, and remediation itted under the Nunavut Water Board License 2AM-MEA1530 Part H, Item 8c on December 28, 2022. The incident has been deemed an insurable event for the Inuit contractor involved.

commendation from ECCC, Agnico Eagle has initiated a review of internal procedures for quality control and reporting of the onsite weather data, including instrument maintenance and calibration eantime, Agnico has reviewed the Meadowbank weather station wind data (daily average speed and direction) in comparison with the wind data collected at the Whale Tail weather station. This is the most appropriate comparison, given the proximity and similarity of the installations. In this evaluation, any deviations from the normal range of expected wind speed values were identified, along estive of instrument drift or malfunction. From this evaluation, the following time points are considered erroneous, and have been flagged for further investigation as part of the review described above: zero values recorded), June 21 – July 2 (values identical between the two stations). Results of this investigation will be provided in the next reporting cycle.

nowledges DFO's comment. Annually, a complete geotechnical inspection is performed by a third party along the AWAR and WTHR. The report is submitted as an appendix of the Annual Report along entation plan. Agnico Eagle will include in future annual report a list of culverts crossing fish bearing along with proposed plan for the repair and or replacement, if needed.

nowledges the NWB's comment and will improve presentation of the 2023 Meadowbank Complex Annual Report to better identified information and appendices that pertain to NWB's mandate.

nowledges the NWB's comment and will provide an update in the 2023 Meadowbank Complex Annual Report.

nowledges the NWB's comment and will provide an update in the 2023 Meadowbank Complex Annual Report.

| | 2023 Annual Report Section |
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| | Section 3 and 4 of the 2023 Meadowbank Water Management Plann presented in Appenix 13 and Section 3 and 4 of the 2023 WT Water Management Plan presented in Appendix 14 of the Meadowbank Complex Annual Report |
| | Section 5 of the 2023 Meadowbank Complex Annual Report |
| | Section 4.2 of the 2023 Meadowbank Complex Annual Report |
| r | Section 4 of the 2023 Meadowbank Water Management Plann presented in Appenix 13 of the Meadowbank Complex Annual Report |
| | Document Control in Management Plan update submitted as part of the 2023 Meadowbank Complex Annual Report |
| | N/A |
| | N/A |
| | Section 3.3 of the 2023 Meadowbank Complex Annual Report |
| | Section itentifed by § in the 2023 Meadowbank Complex Annual Report |
| | Meadowbank and Whale Tail 2023 Annual Geotechnical Recommendation Implementation Plan as presented in Appendix 10 of the Meadowbank Complex Annual Report |
| | Meadowbank and Whale Tail 2023 Annual Geomechanical Recommendation Implementation Plan as presented in Appendix 11 and 12 the Meadowbank Complex |

Annual Report