SCREENING PART 2 FORM
PROJECT SPECIFIC INFORMATION REQUIREMENTS (PSIR)

(RENEWAL APPLICATION FOR CHIDLIAK PERMIT AND WATER LICENCE)

1. SUBMISSIONS

The Proponent must submit all information pertaining to the Project as a whole. The information requirements below are designed for the purpose of environmental assessment and are not limited to the scope of a single permit or licence application.

IMPORTANT: Please be advised of the following:

1. NIRB does not accept references to an ftp site as a submission.

2. The Proponent must provide NIRB with 1 (one) electronic copy and 1 (one) hardcopy of the required information in English.

3. All maps should be legible, and should include grids, be of appropriate scale, indicate the scale, include latitude and longitude references, title, legend and a north arrow. To the extent possible, avoid hand-drawn demarcations; and,

4. Please complete all required information in each section below. If the required information is not applicable to the project proposal, please indicate this in the response with "n/a". If the request has been provided in a different section or report, please note the section or report where the response can be found.

2. GENERAL PROJECT INFORMATION REQUIREMENTS

Project Co-ordinates and Maps **(An Excel file with updated proposed LDDH drillhole UTMs accompanies this application as *Appendix 11*).**

1. The preferred method for submitting project co-ordinates information is through the use of a Geographic Information System (GIS) compatible digital file. Although an ESRI ArcView 3.x shape file (in decimal degrees) is the preferred interchange format, the NIRB has the capacity to receive over 100 GIS and CAD related formats, including MapInfo and AutoCAD, provided proper format and projection metadata is also submitted. The NIRB requires co-ordinates for the project proposal which reflect the entire project area as defined by:

   - the area/sites of investigation;
     No changes to area approved in Land-Use Permit and Water Licence and amendments.

- the boundaries of the foreseen land use permit/right-of-way area(s) to be applied for; (EXISTING PROPERTY BOUNDARIES)
  No changes to this section.
- the location of any proposed infrastructure or activity(s);
  No change to this section: The 4 Chidliak seasonal tent camps – Discovery, Sunrise, Aurora and CH-6 – are already approved. The equipment trail and trail-network between kimberlites and camps already is approved.
- the boundaries of the mineral claim block(s) where proposed activities will be undertaken. ***(see above).***

2. Map of the project site within a regional context indicating the distance to the closest communities.
   No change to this section; however, Peregrine's adjoining Qilaq Project property has decreased in size, which is evident on regional maps. (see *Maps 1a and 1c* attached with this screening application).
3. Map of any camp site including locations of camp facilities.
   Existing camp maps – Maps *3a*, *3c*, *4* and *5* – have been updated with minor adjustments and accompany this screening application; *Map 3b* (closeup of Discovery Camp Designated Fuel Station) has not changed. The main change is to Aurora Camp (*Map 3c*), which is currently inactive. A minor change at Discovery Camp (*Map 3a-1*) is a proposed alternate natural winter airstrip, which would be used only if winter cross-winds thwarted ability to land on the existing natural strip in winter.
4. Map of the project site indicating existing and/or proposed infrastructure, proximity to water bodies and proximity to wildlife and wildlife habitat.

No change to this section, EXCEPT FOR a minor adjustment – an additional water source, "Contingency Lake #2", along the already-approved winter trail between CH-6 Camp and the main water source. (*See Map 2a, Map 2b, Map 11.)* "Contingency Lake #2" was surveyed during the original bathymetric survey in 2011, and has sufficient volume. Use of "Site E" or "Contingency Lake #2" was not discussed in the preliminary version of the engineers' bathymetry report but was included in the engineers' final report. *(Please refer to Project Description and updated Appendix 9, Bulk-Sampling Monitoring Plan, Pages 11 and 13-14).*

Project General Information

5. Discuss the need and purpose of the proposed project.

No change to the need and purpose of the Chidliak Project as outlined in the last amendment application. However, 5 adjustments to existing components are sought: (1) additional water source "Contingency Lake #2" proposed for existing water-haul trail [*noted in Item #4 above]**; adjustments to equipment-trail use: (2) hauling out bags of kimberlite bulk-sample material on a sleigh pulled by a Challenger tractor; (3) hauling in drums of fuel on backhauls; (4) alternate natural airstrip at Discovery Camp for winter landings if cross-winds are a problem** [*noted in Item #3 above]**; *and* (5) more options for bulk-sampling drillhole diameters: it may be advantageous to collect kimberlite sample from larger drillholes, thus, Peregrine would like the option to drill larger-diameter holes (sizes of 46cm and 61cm in diameter, in addition to the 34cm-diameter size already approved). This would not result in changes to the bulk-sampling plan or drill circuit. Though additional water would be consumed per hole, this would NOT affect the overall water allotment. (For example, if hole size of 46cm were to be used, water consumption would increase to a maximum of 35m^3 per day. Adding in water usage for winter-trail preparation of up to 20m^3 per day (as discussed in the amendment application), would yield a total non-domestic usage of approximately 55m^3 per day.) A positive potential outcome may be that fewer holes per body are required, so that the overall number of**

holes in total in 2013 could decrease to a range of six to 15 holes, in comparison to the 12 to 15 holes estimated in the amendment application, when a diameter of 34cm was calculated).

6. Discuss alternatives to the project and alternatives to project components, including the no-go alternative. Provide justification for the chosen option(s).
   No change to the information provided in Para. #2, Question #5 in the last screening application.

7. Provide a schedule for all project activities.
   No change to the schedule as provided with the last screening application.

8. List the acts, regulations and guidelines that apply to project activities.
   No change to this section. Peregrine will obey all legislation which applies to Chidliak, including but not limited to the NWT and NU Mining Regulations, Nunavut Land Claims Agreement, Territorial Lands Act, Territorial Land Use Regulations, Nunavut Waters Act, Northwest Territories Waters Regulations [until such time as the Nunavut Waters Regulations become law], Fisheries Act, DFO Fish Screen Guidelines, Public Health Act and Camp Sanitation Regulations, Guidelines for Canadian Drinking Water Quality, Nunavut Wildlife Act, Nunavut Environmental Protection Act, Transportation of Dangerous Goods Act, Canadian Environmental Protection Act, Migratory Birds Convention Act and Regulations, Species at Risk Act, Nunavut Archaeological and Palaeontological Sites Regulations, *etc.*

9. List the approvals, permits and licences required to conduct the project.
   AANDC Class A Land-Use Permit *#N2008C0005 (with amendments up to and including Amendment #3)* and NWB Water Licence *#2BE-CHI0813 (with amendments up to and including Amendment #4)* continue in force until 17 June and 01 June 2013, respectively; a new permit and licence are sought so that exploration and bulk sampling may continue. QIA Land Licence *#Q10L1C008-Extension,* which will require a replacement licence prior to expiry on 01 March 2013, does not apply to the Bulk Sample Focus Area (where most Chidliak Project activities will occur), as the Focus Area is exclusively on Crown land).

DFO Operational Statement (OS) Conformity

10. Indicate whether any of the following Department of Fisheries and Oceans (DFO) Operational Statement (OS) activities apply to the project proposal:
    - Bridge Maintenance **N/A**
    - Clear Span Bridge **N/A**
    - Culvert Maintenance **N/A**
    - Ice Bridge **N/A**
    - Routine Maintenance Dredging **N/A**
    - Installation of Moorings **N/A**

    Please see DFO's OS for specific definitions of these activities available from either NIRB's ftp site at http://ftp.nunavut.ca/nirb/NIRB_ADMINISTRATION/ or DFO's web-site at http://www.dfo-mpo.gc.ca/canwaters-eauxcan/index_e.asp
11. If any of the DFO's OS apply to the project proposal, does the Proponent agree to meet the conditions and incorporate the measures to protect fish and fish habitat as outlined in the applicable OS? If yes, provide a signed statement of confirmation.

Peregrine will follow the DFO NU Mineral Exploration Operational Statement in respect of any renewed permit and licence, and will supply a signed Notification

Form to DFO within 10 working days of commencement of the 2013 bulk-sampling programme, as required by DFO.

Transportation

12. Describe how the project site will be accessed and how supplies will be brought to site. Provide a map showing access route(s).

    Maps 2a, 2b and 6 **depict the winter-access trails and the equipment trail between Iqaluit and site. Means of transportation and access were covered in detail in the most recent screening application. The only transportation adjustment proposed for the 2013 bulk-sampling programme is in regard to proposed additional uses of the approved equipment trail, *i.e.*, hauling of bagged kimberlite from site to Iqaluit for onward transport, and hauling of drummed fuel to site on backhauls. Hauling kimberlite via the equipment trail would be an adjunct to moving bags by DC-3 aircraft (aircraft transport of sample was approved in permit Amendment #3). An existing fuel sleigh would be able to hold over 18 100kg. At approximately one tonne per sample bag, this allows for 18 bags per sleigh-load. A minimum of 15 trips are envisioned, though the actual number could be more or less, depending on factors such as weather, trail conditions and drilling progress; thus, permission is sought to haul kimberlite loads *as required*. The sleigh would be conveyed by a Challenger 875C, the model of equipment already approved. Potentially, a second Challenger would be brought to site and dedicated to this task. All existing Plans and Standard Operating Procedures, as well as a new Winter Trail Cleanup and Reclamation Stabilisation Plan [*see Appendix 14*] would apply to this usage of the Equipment Trail. Hauling fuel to site on a fuel sleigh on backhauls would be an adjunct to moving drums by DC-3 aircraft, Hercules aircraft and Twin Otter as already approved. The fuel sleigh with sidebars would be loaded with full, sealed drums. Although the Nuna-supplied fuel sleigh theoretically could carry 100 drums (assuming a full diesel-drum weight of 180 kg), a typical load on backhauls would be less. All existing Plans and Standard Operating Procedures, as well as a new Winter Trail Cleanup and Reclamation Stabilisation Plan [*see Appendix 14*] would apply to this usage of the Equipment Trail.**

13. If a previous airstrip is being used, provide a description of the type of airstrip (ice-strip/all-weather), including its location. Describe dust management procedures and provide a map showing location of airstrip.

    Only change to airstrip operation was noted in Items #3 and #5 above, *i.e.*, a proposed alternate natural landing strip for winter use at Discovery Camp, oriented to 131.1°, if cross-winds hinder ability to land on the existing strip. Co-ordinates for this pilot-selected 1000m-long strip are: NW Pt.: 64° 14' 41.2" N lat. – 66° 21' 54.3" W long. and SE Pt.: 64° 14' 19.7" N lat. – 66° 20' 58.5" W long. No change to other airstrips.

14. If an airstrip is being constructed, provide the following information:
    a. Discuss design considerations for permafrost **N/A**
    b. Discuss construction techniques **N/A**
    c. Describe the construction materials, type and sources, and the acid rock drainage (ARD) and metal leaching (ML) characteristics (if rock material is required for airstrip bed). **N/A**
    d. Describe dust management procedures. **N/A**
    e. Provide a map showing location of proposed airstrip. ***Map 3a*** **and** ***Map 3a-1*** **are attached.**

15. Describe expected flight altitudes, frequency of flights and anticipated flight routes.

No change to flight altitudes, frequency or routings from those detailed in last screening application. (In that application it was noted that greater reliance will be placed for the 2013 bulk sample on use of winter trails rather than on helicopter transport.)

Camp Site

16. Describe all existing and proposed camp structures and infrastructure. **No changes to the 4 camps already approved, EXCEPT as noted elsewhere in this screening application, *i.e.*, that Aurora Camp will be inactive and Discovery Camp proposes an alternate winter airstrip within the camp footprint for use in cross-winds.**

17. Describe the type of camp:
    a. Mobile
    b. Temporary
    c. Seasonal or Limited Seasonal

    CH-6 Camp, which was approved with the last amendment application, is a "seasonal camp" like the 3 others. Its purpose is to support the bulk sampling of the CH-6 kimberlite.

    Permanent
    d. Other
18. Describe the maximum number of personnel expected on site, including the timing for those personnel.

No change to numbers of personnel already approved.

Equipment

19. Provide a list of equipment required for the project and discuss the uses for the equipment.

No changes to types of heavy equipment already approved. A minor adjustment which could be put into effect would be use of a second Challenger 875C – for hauling bagged kimberlite to Iqaluit for onward transport, and for hauling drummed fuel to site on backhauls. Operation of all equipment will continue to be governed by approved Monitoring Plans and Standard Operating Procedures, as well as a new Winter Trail Cleanup Plan (see *Appendix 14*) which AANDC had requested.

20. If possible, provide digital photos of equipment.

No change to photos of equipment. These photos can be viewed in Appe*ndix 8, "Additional Equipment".*

Water

21. Describe the location of water source(s), the water intake methods, and all methods employed to prevent fish entrapment. Provide a map showing the water intake locations.

No change to this section or water intake locations, EXCEPT a minor adjustment – an additional water source, "Contingency Lake #2", along the already-approved winter trail between CH-6 Camp and the main water source. (*See Map 2a, Map 2b, Map 11.)* "Contingency Lake #2" was surveyed during the original bathymetric survey in 2011, and has sufficient volume. Use of "Site E" or "Contingency Lake #2" was not discussed in the preliminary version of the engineers' bathymetry report but was included in the engineers' final report. *(Please refer to Project Description and updated Appendix 9, Bulk-Sampling Monitoring Plan, Pages 11 and 13-14).*

22. Describe the estimated rate of water consumption (m^3/day).

- **No additional allotment is requested in this renewal application. Use of water for domestic purposes for all Peregrine camps will not exceed the approved limit of 25m^3/day total. Water consumption for drilling + winter-trail maintenance will remain within the approved limit of 70m^3/day. The main change affecting water consumption in 2013 will be the requested adjustment of hole-diameter options from 34cm to 46cm or 61 cm; larger-diameter holes will result in additional water use, up from the 15m^3 discussed in the application for permit Amendment #3; however, usage would not exceed the overall volume per day for drilling and ancillary uses already allowed under the water licence.**

23. Describe how waste water will be managed. If relevant, provide detail regarding location of sumps, including capacity of sumps and monitoring.

    No change to this section. Locations of camp sumps are displayed on camp maps. Locations of cuttings-deposit areas as identified by engineers in 2011 have not changed, and are displayed on *Map 10* and *Map 11*.

24. If applicable, discuss how surface water and underground water will be managed and monitored. **Underground = N/A**

    No change to this section, details of which were provided with last amendment application. Updated MSDS inventory is provided as *Appendix 2 (a CD).*

Waste Water (Greywater, Sewage, Other)

25. Describe the quantities, treatment, storage, transportation, and disposal methods for the following (where relevant):
    - Sewage

      No change to this section, details of which were provided with last amendment application, EXCEPT THAT Pacto waste from CH-6 Camp will be transported to Discovery Camp for incineration, because no incinerator will be installed at CH-6 Camp in 2013.
    - Camp grey water

      No change to this section.
    - Combustible solid waste

      No change to this section, EXCEPT THAT CH-6 Camp garbage waste will be transported to Discovery Camp for incineration.
    - Non-combustible solid waste

      No change to this section.
    - Bulky items/scrap metal

      No change to this section.
    - Waste oil/hazardous waste

      No change to this section.
    - Contaminated soils/snow

      No change to this section, EXCEPT THAT any incineration of CH-6 Camp garbage in 2013 would occur at Discovery Camp rather than at CH-6 Camp.
    - Empty barrels/ fuel drums

      No change to this section.
    - Any other waste produced **N/A**

26. If the project proposal includes a landfill or landfarm, indicate the locations on a map, provide the conceptual design parameters, and discuss waste management and contact-water management procedures. **N/A**

Fuel

27. Describe the types of fuel, quantities (number of containers, type of containers and capacity of containers), method of storage and containment. Indicate the location on a map where fuel is to be stored, and method of transportation of fuel to project site. **No change to fuels, quantities and storage as displayed in this section for the last amendment application. (Types of products and quantities also are reported in the updated Spill Plan, *Appendix 7a*, and remain unchanged).**

    (Only minor date changes to *Appendix 10,* Bulk-Fuel Management Facility Monitoring Plan, mainly consisting of date changes, as the bulk sampling was postponed from 2012 to 2013 after *Appendix 10* was prepared.)

28. Describe any secondary containment measures to be employed, including the type of material or system used. If no secondary containment is to be employed, please provide justification.

    Please see Question #27 above.

29. Describe the method of fuel transfer and the method of refuelling.

    No change to this section.

Chemicals and Hazardous Materials*

**included but not limited to oils, greases, drill mud, antifreeze, calcium or sodium chloride salt, lead acid batteries and cleaners*

30. Describe the types, quantities (number of containers, the type of container and capacity of containers), method of storage and containment. Indicate the location on a map where material is to be stored, and method of transportation of materials to project site.

    No change to this section, details of which were provided with last amendment application.

31. Describe any secondary containment measures to be employed, including the type of material or system used.

    Please see Question #30 above.

32. Describe the method of chemical transfer.

    No change to this section, details of which were provided with last amendment application.

Workforce and Human Resources/Socio-Economic Impacts

33. Discuss opportunities for training and employment of local Inuit beneficiaries.

    No change to this section, details of which were provided with last amendment application.

34. Discuss workforce mobilisation and schedule, including the duration of work and rotation length, and the transportation of workers to site.

    No change to the schedule or details as provided with the last amendment application.

35. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries.

    No change to this section, details of which were provided with last amendment application.

Public Involvement/ Traditional Knowledge

36. Indicate which communities, groups, or organisations would be affected by this project proposal.

    No change to this section, details of which were provided with last amendment application.

37. Describe any consultation with interested Parties which has occurred regarding the development of the project proposal.

    In addition to visits reported in the last amendment application, community visits occurred in November 2011 and April 2012, and site visits for representatives of Pangnirtung and Iqaluit will occur again in summer 2012.

38. Provide a summary of public involvement measures, a summary of concerns expressed, and strategies employed to address any concerns.

    No change to this section, EXCEPT THAT additional meetings were held in November 2011 and April 2012 as noted in #*37* above. A summary of these meetings is as follows:

(1) <u>Iqaluit – post-season meetings</u>: On <u>23 November 2011</u>, Peregrine held meetings with 4 groups – QIA, Baffin Regional Chamber of Commerce, City of Iqaluit, Amarok HTA. Main concerns were: (a) climate is changing, which affects vegetation; an elder who attended several of the meetings, and also serves on both the Iqaluit CLARC and City Council, stated that caribou "are not gone", but move to other locations when food resources in one area are depleted; (b) HTA suggested scouts on skidoos should be used to select best routings for Equipment Trail; (after this meeting, preparations commenced for use of several experienced HTA land-users to scout the trail and accompany the first use of heavy equipment on the trail). This successful activity was a direct response to the dialogue with the HTA, and successful trips with HTA scouts occurred in March and April 2012. A spring meeting was not held when Peregrine returned to Iqaluit in April 2012, due to lack of availability of groups.

(2) <u>Pangnirtung – post-season meetings</u>: Between <u>21 and 22 November 2011</u>, Peregrine held meetings with 3 groups – Hamlet, community and HTA – and also held a day-long open house on 22 November. Main concern was: (a) 69% of questions at community meeting were from members of 2 families who use the N coast area of the Hall Peninsula, far outside of the Bulk Sample Focus Area; Peregrine advised that it timed activities in 2011 to end in the N coast area for the period requested by land-users; in addition, less activity will occur on the N coast in 2012 as Peregrine turns its focus to the upcoming bulk-sample programme. Peregrine stressed that it focuses on compliance and also conducts enviro. surveys to gather information on animal density and for planning avoidance of caribou in relation to exploration activities.

(3) <u>Pangnirtung – pre-season meetings</u>: Between <u>23 and 25 April 2012</u>, Peregrine held meetings with 4 groups – Hamlet, ED&T staff, community and HTA – and also held 2 day-time open houses on 24 and 25 April. Main concerns were: (1) Will Peregrine be utilising Inuit businesses? Peregrine replied that, "we make every effort to utilise Inuit businesses... As the project grows, we will make every effort to maximise (this)." (2) "If you develop a mine, could the land be permanently damaged?" Peregrine replied that, "Reclamation (nowadays) is a very important part of mining and the conditions of permits." (3) "I want my son to be able to hunt in the places where my ancestors hunted." Peregrine replied, "We want the same thing; we believe that industrial and cultural uses can co-exist. This is demonstrated at mines that exist now." (4) Would you have something (at the mining stage) that would help the whole community, not just those working? Peregrine replied, "There would be taxes paid to govt., as well as more non-govt. revenue. And the company could participate in programmes to help people, apart from existing govt. programmes. (5) Are you

going to let Pangnirtung people visit the site again this year? Peregrine replied, "Absolutely."

39. Describe how traditional knowledge was obtained, and how it has been integrated into the project.

    No change to this section, EXCEPT THAT it should be noted that valuable assistance was provided by Amarok HTA land-use experts in scouting the equipment trail between Iqaluit and Discovery and Sunrise Camps, and in participating in first use of the trail for mobing in equipment in April 2012.

40. Discuss future consultation plans.

    Next community meetings: Visit to Iqaluit and Pangnirtung likely will be organised for a week in November 2012, or following conclusion of the 2012 programme. Following that, the next set of community meetings will likely be in February 2013 or at the startup of the bulk-sampling programme, to seek input, and to recruit any additional local personnel for the 2013 field season.

3. PROJECT SPECIFIC INFORMATION

The following table identifies the project types identified in Section 3 of the NIRB, Part 1 Form. Please complete all relevant sections.

It is the proponent's responsibility to review all sections in addition to the required sections to ensure a complete application form.

Project Type	Type of Project Proposal	Information Request
1	All-Weather Road/Access Trail	Section A-1 and Section A-2
2	Winter Road/Winter Trail	Section A-1 and Section A-3
3	Mineral Exploration	Section B-1 through Section B-4
4	Advanced Mineral Exploration	Section B-1 through Section B-8
5	Mine Development/Bulk Sampling	Section B-1 through Section B-12
6	Pits and Quarries	Section C
7	Offshore Infrastructure(port, break water, dock)	Section D
8	Seismic Survey	Section E
9	Site Cleanup/Remediation	Section F
10	Oil and Natural Gas Exploration/Activities	Section B-3 and Section G
11	Marine Based Activities	Section H
12	Municipal and Industrial Development	Section I

SECTION A: Roads/Trails

A-1 Project Information

1. Describe any field investigations and the results of field investigations used in selecting the proposed route (e.g. geotechnical, snow pack)
2. Provide a conceptual plan of the road, including example road cross-sections and water crossings.

3. Discuss the type and volume of traffic using the road/trail (i.e. type of vehicles and cargo and number of trips annually).
4. Discuss public access to the road.
5. Describe maintenance procedures.

A-2 All-Weather Road/Access Trail

6. Discuss road design considerations for permafrost.
7. Describe the construction materials (type and sources for materials), and the acid rock drainage (ARD) and metal leaching (ML) characteristics of the construction materials.
8. Discuss construction techniques, including timing for construction activities.
9. Indicate on a map the locations of designated refuelling areas, water crossings, culverts, and quarries/borrow sources.
10. Identify the proposed traffic speed and measures employed to ensure public safety.
11. Describe dust management procedures.

A-3 Winter Road/Trail

12. Describe the surface preparation, including the use of snow berms or compaction, and any flooding. If flooding is to be used, provide the location of the water source on a map.

No change to this section, EXCEPT THAT it should be noted that width of the approved winter trails will be 5m, which exceeds the width of the widest piece of equipment which would utilise the trail network.

13. Describe the operating time period.

No change to this section.

14. Identify the proposed traffic speed and measures employed to ensure public safety.

No change to this section.

15. Discuss whether the selected route traverses any fish-bearing water bodies.

No change to this section, details of which were provided with last amendment application.

SECTION B: <u>Mineral Exploration /Advanced Exploration /Development</u>

B-1 Project Information

1. Describe the type of mineral resource under exploration.

Peregrine is primarily exploring for kimberlite, a host rock for diamonds.

B-2 Exploration Activity

2. Indicate the type of exploration activity:
   - Bulk Sampling (underground or other)

No change to this section, EXCEPT THAT drillhole diameter may increase if warranted, as noted in Question #*5* above. (*Further information on the bulk sample may be found in a slightly updated Appendix 9, "Bulk-Sample Monitoring Plan" accompanying this application.)* There will be no change to the range of hole depths as discussed in previous amendment application – 100m to 250m per hole.

- Stripping (mining shallow bedded mineral deposits in which the overlying material is stripped off, the mineral removed and the overburden replaced) **N/A**
- Trenching **N/A**
- Pitting **N/A**
- Delineation drilling

No change to this section.

- Preliminary Delineation Drilling **N/A**
- Exploration drilling
  No change to this section.
- Geophysical work (indicate ground and/or air)
  No change to this section.
- Other **N/A**

3. Describe the exploration activities associated with this project:
   - Satellite remote sensing **N/A**
   - Aircraft remote sensing **N/A**
   - Soil sampling **N/A**
   - Sediment sampling
     No change to this section.
   - On-land drilling (indicate drill type)
     No change to this section, details of which were provided in last amendment application. However, Peregrine would like to provide a clarification as to the bulk-sample target volume of 600t discussed in the amendment application. In regard to the target sample volume, Peregrine wants to ensure that our regulators understand that a *target volume* is a theoretical estimate made in advance, and, in fact, final volume may vary depending on site conditions and the ease or difficulty of extracting sample, amongst other factors, so that a target 600t *total sample could, in fact, be a range of volume* from below 600t to upwards of 700t.
   - On-ice drilling (indicate drill type)
     No change to this section.
   - Water based drilling (indicate drill type) **N/A**
   - Overburden removal
     No change to this section.
   - Explosives transportation and storage **N/A**
   - Work within navigable waters **N/A**
   - On site sample processing **N/A**
   - Off site sample processing
     No change to this section.
   - Waste rock storage **N/A**
   - Ore storage **N/A**
   - Cuttings disposal
     No change to this section, details of which were provided in last amendment application.
   - Portal and underground ramp construction **N/A**
   - Landfilling **N/A**
   - Landfarming **N/A**
   - Other **N/A**

B-3 Geosciences

4. Indicate the geophysical operation type:
   a. Seismic (please complete Section E) **N/A**
   b. Magnetic
      No change to this section.
      Gravimetric **N/A**
   c. Electromagnetic
   d. Other (specify)
5. Indicate the geological operation type: **N/A**

a. Geological Mapping
b. Aerial Photography
c. Geotechnical Survey
d. Ground Penetrating Survey
e. Other (specify)

6. Indicate on a map the boundary subject to air and/or ground geophysical work.
   No change to this section.
7. Provide flight altitudes and locations where flight altitudes will be below 610m.
   No change to this section.

B-4 Drilling

8. Provide the number of drill holes and depths (provide estimates and maximums where possible).
   No change to this section, EXCEPT THAT drillhole diameter may increase if warranted, as noted in Questions #5 and #B-2 (2) above.

9. Discuss any drill additives to be used.
   No change to this section. Updated MSDS inventory is provided as *Appendix 2 (a CD).*

10. Describe method for dealing with drill cuttings.
    No change to this section.

11. Describe method for dealing with drill water.
    No change to this section.

12. Describe how drill equipment will be mobilised.
    No change to this section.

13. Describe how drill holes will be abandoned.
    No change to this section.

14. If project proposal involves uranium exploration drilling, discuss the potential for radiation exposure and radiation protection measures. Please refer to the *Canadian Guidelines for Naturally Occurring Radioactive Materials* for more information. **N/A**

B-5 Stripping/ Trenching/ Pit Excavation

Trenching as an activity within the Chidliak Project was screened for the current Land-Use Permit and Water Licence (decision of 18 December 2008) and four conditions provided by NIRB. To date, a trenching plan was developed and submitted for the CH-1 kimberlite only; trenching at this kimberlite has not yet occurred. As trenching may become necessary for bulk-sampling of other kimberlites of economic potential, this information will be submitted for NIRB's determination in future as one or more amendments to a renewed Land-Use Permit and/or Water Licence, if required. These details are not currently known.

15. Discuss methods employed. (i.e. mechanical, manual, hydraulic, blasting, other)
16. Describe expected dimensions of excavation(s) including depth(s).
17. Indicate the locations on a map.
18. Discuss the expected volume material to be removed.
19. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.

B-6 Underground Activities **N/A**

20. Describe underground access.
21. Describe underground workings and provide a conceptual plan.
22. Show location of underground workings on a map.
23. Describe ventilation system.
24. Describe the method for dealing with ground ice, groundwater and mine water when encountered.
25. Provide a Mine Rescue Plan.

B-7 Waste Rock Storage and Tailings Disposal

26. Indicate on a map the location and conceptual design of waste rock storage piles and tailings disposal facility.
    No change to this section.
27. Discuss the anticipated volumes of waste rock and tailings.
    Peregrine has calculated that cuttings generated and reporting to deposition areas would be on the order of 400-500m^3 per hole.

Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. **Between September and December 2011, Peregrine initiated ABA testing and metals analysis on a total of 21 samples of kimberlite and country-rock core from kimberlites CH-7 and CH-6, which will be bulk-sampled in 2013; this is preliminary work, as areas of interest remain to be determined by future bulk-sampling results. Samples were selected to be spatially representative and to reflect the variation in competency, appearance and/or weathering of both kimberlite and country rock. Samples were subjected to acid-base accounting and metals analysis by aqua regia digestion and ICP-MS (Inductively-Coupled Plasma – Mass Spectrometry) at SGS Canada Inc., Burnaby, BC. Results were subsequently reviewed by the recognised geochemical specialist firm, SRK Consulting, with Stephen Day as lead consultant. As only one interval of country-rock core was potentially acid-generating (PAG), and the overall PAG risk was thus low, Mr. Day recommended that further investigation of waste material occur in future, "if the project progresses to small- or full-scale mining resulting in generation of waste rock."**

B-8 Stockpiles **N/A**

1. Indicate on a map the location and conceptual design of all stockpiles.
2. Describe the types of material to be stockpiled. (i.e. ore, overburden)
3. Describe the anticipated volumes of each type of material to be stockpiled.
4. Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile.
5. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.

B-9 Mine Development Activities **N/A**

6. Indicate the type(s) of mine development activity(s):
   - Underground
   - Open Pit
   - Strip Mining
   - Other
7. Describe mine activities.
   - Mining development plan and methods
   - Site access
   - Site infrastructure (e.g. airstrip, accommodations, offshore infrastructures, mill facilities, fuel storage facilities, site service roads)
   - Milling process

- Water source(s) for domestic and industrial uses, required volumes, distribution and management.
- Solid waste, wastewater and sewage management
- Water treatment systems
- Hazardous waste management
- Ore stockpile management
- Tailings containment and management
- Waste rock management
- Site surface water management
- Mine water management
- Pitting and quarrying activities (please complete Section C)
- Explosive use, supply and storage (including on site manufacturing if required)
- Power generation, fuel requirements and storage
- Continuing exploration
- Other

8. Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage.

B-10 Geology and Mineralogy

9. Describe the physical nature of the ore body, including known dimensions and approximate shape.

No change to this section, EXCEPT THAT summary information on CH-1 kimberlite, which may be bulk-sampled in 2013, is included here. ***(Information on CH-7, CH-6, CH-44, CH-45 and CH-31 was provided with the last amendment application.)***

CH-1

CH-1 is interpreted as being a complex body that consists of three or more kimberlite lobes that together define a geophysical anomaly with an estimated surface expression of two to three hectares. Each kimberlite lobe can consist of multiple kimberlite phases, with each phase possibly having different geologic characteristics and diamond contents. A 2012 drill programme will better define the geology of CH-1.

Regarding host rock in the general vicinity of CH-1:

Felsic to intermediate biotite +/-garnet +/-cordierite gneisses with some development of pegmatitic leucosomes. Country rock is quite fractured and broken and contains carbonate +/- serpentine veining adjacent to kimberlite, locally with *rare* rust staining along fractures.

10. Discuss the predicted rate of production.

No change to this section.

11. Describe mine rock geochemical test programmes which have been or will be performed on the ore, host rock, waste rock and tailings to determine acid generation and contaminant leaching potential. Outline methods and provide results if possible.

[*Please see response under #B-7 (27) above.]*

B-11 Mine **N/A**

12. Discuss the expected life of the mine.
13. Describe mine equipment to be used.
14. Does the project proposal involve lake and/or pit dewatering? If so, describe the activity as well as the construction of water retention facilities if necessary.
15. Discuss the possibility of operational changes occurring during the mine life with consideration for timing. (e.g. open pit to underground)

16. If project proposal involves uranium mining, consider the potential for radiation exposure and radiation protection measures. Particular attention should be paid to *The Nuclear Safety and Control Act*.

B-12 Mill **N/A**

17. If a mill will be operating on the property in conjunction with mining, indicate whether mine-water may be directed to the mill for reuse.
18. Describe the proposed capacity of the mill.
19. Describe the physical and chemical characteristics of mill waste as best as possible.
20. Will or does the mill handle custom lots of ore from other properties or mine sites?

SECTION C: Pits and Quarries **N/A**

1. Describe all activities included in this project.
   - Pitting
   - Quarrying
   - Overburden removal
   - Road use and/or construction (please complete Section A)
   - Explosives transportation and storage
   - Work within navigable waters
   - Blasting
   - Stockpiling
   - Crushing
   - Washing
   - Other
2. Describe any field investigations and the results of field investigations used in determining new extraction sites.
3. Identify any carving stone deposits.
4. Provide a conceptual design including footprint.
5. Describe the type and volume of material to be extracted.
6. Describe the depth of overburden.
7. Describe any existing and potential for thermokarst development and any thermokarst prevention measures.
8. Describe any existing or potential for flooding and any flood control measures.
9. Describe any existing or potential for erosion and any erosion control measures.
10. Describe any existing or potential for sedimentation and any sedimentation control measures.
11. Describe any existing or potential for slumping and any slump control measures.
12. Describe the moisture content of the ground.
13. Describe any evidence of ice lenses.
14. If blasting, describe methods employed.
15. Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage.
16. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.
17. Discuss safety measures for the workforce and the public.

SECTION D: Offshore Infrastructure **N/A**

D-1 Facility

1. Describe any field investigations and the results of field investigations used in selecting the site (i.e. aerial surveys, bathymetric surveys, tidal processes, shoreline erosion processes, geotechnical foundation conditions)

2. Provide a conceptual plan, profile description and drawing(s) indicating shoreline, facility footprint, tidal variations, required vessel draft, keel offset, deck height freeboard
3. Discuss how anticipated loads on the seabed foundation and on the offloading platform will be incorporated into the design.
4. Describe how vessels will manoeuvre around the facility. (e.g. pull alongside or in front)
5. Discuss the anticipated life of the facility.

D-2 Facility Construction

6. Describe the types of material used for construction (i.e. granular or rock, steel piling or sheet piling, concrete). If material is granular, consider acid rock drainage potential, metal leaching potential, percentage of fines, size.
7. Describe dredging activities.
8. Indicate source of granular or rock material used in construction.
9. List quantities of the various types of material used in construction.
10. Describe construction method(s).
11. Indicate whether a site engineer will be on-site to inspect construction.
12. If proposed construction method involves dumping of fill into water, discuss measures for mitigating the release of suspended solids.

D-3 Facility Operation

13. Describe maintenance activities associated with the facility (e.g. dredging, maintenance to account for potential settlement of facility,)
14. Discuss whether the public will have access to the facility(s) and describe public safety measures.
15. Describe cargo and container handling, transfer and storage facilities.
16. Indicate whether fuel will be transferred from barges at this site and describe the method of that fuel transfer.
17. Discuss frequency of use.

D-4 Vessel Use in Offshore Infrastructure

18. Please complete Section H

SECTION E: <u>Seismic Survey</u> **N/A**

E-1 Offshore Seismic Survey

1. Indicate whether the survey is 2D or 3D at each site
2. Describe the type of equipment used, including:
   - Type and number of vessels including length, beam, draft, motors, accommodation capacity, operational speeds when towing and when not towing
   - Sound source (type and number of airguns)
   - Type and number of hydrophones
   - Number, length, and spacing of cables/ streamers
3. On a map, indicate the grid, number of lines and total distance covered at each site.
4. Indicate the discharge volume of the airguns, the depth of airgun discharge, and the frequency and duration of airgun operation at each site.
5. Discuss the potential for dielectric oil to be released from the streamer array, and describe proposed mitigation measures.
6. Indicate whether additional seismic operations are required for start-up of operations, equipment testing, repeat coverage of areas.
7. Indicate whether air gun procedures will include a “ramping up” period and, if so, the proposed rate of ramping up.

8. Indicate whether the measures described in the *Statement of Canadian Practice for Mitigation of Noise in the Marine Environment* will be adhered to for this project.

E-2 Nearshore/ Onshore Seismic Survey

9. For each site, indicate whether nearshore and onshore surveys will be conducted during the ice season or once the ice has melted
10. Describe how nearshore and onshore areas will be accessed.
11. Describe the survey methods to be used (e.g. explosive charge, vibration, air or water gun, other)
12. Describe equipment to be used
13. If applicable, indicate number, depth and spacing of shot holes
14. Describe explosive wastes including characteristics, quantities, treatment, storage, handling, transportation and disposal methods.

E-3 Vessel Use in Seismic Survey

15. Please complete Section H

SECTION F: Site Cleanup/Remediation N/A

1. Describe the location, content, and condition of any existing landfills and dumps (indicate locations on a map).
2. Identify salvageable equipment, infrastructure and/or supplies.
3. Provide a list of all contaminants to be cleaned up, anticipated volumes and a map delineating contaminated areas. This includes buildings, equipment, scrap metal and debris, and barrels as well as soil, water (surface and groundwater) and sediment.
4. Describe the degree of pollution/contamination, and list the contaminants and toxicity.
5. Describe technologies used for clean-up and/or disposal of contaminated materials. Include a list of all the physical, chemical and biological cleanup/ remediation methods, operational procedures, and the dosage/frequency of reagents and bacterial medium.
6. Identify and describe all materials to be disposed of off site, including the proposed off site facilities, method of transport and containment measures.
7. Discuss the viability of landfarming, given site specific climate and geographic conditions.
8. Describe the explosive types, hazard classes, volumes, uses, location of storage (indicate on a map), and method of storage (if applicable).
9. If blasting, describe the methods employed.
10. Describe all methods of erosion control, dust suppression, and contouring and re-vegetation of lands.
11. Describe **all** activities included in this project.
    - Excavation (please complete Section B-5)
    - Road use and/or construction (please complete Section A)
    - Airstrip use and/or construction
    - Camp use and/or construction
    - Stockpiling of contaminated material
    - Pit and/or quarry (please complete Section C)
    - Work within navigable waters (please complete Section H)
    - Barrel crushing
    - Building Demolition
    - Other

SECTION G: Oil and Natural Gas Exploration/Activities N/A

G-1 Well Authorisation

1. Identify the location(s) of the well centre(s) by latitude and longitude. Attach a map drawn to scale showing locations of existing and proposed wells.
2. Indicate if the site contains any known former well sites.
3. Include the following information for each well:
    a. Well name
    b. Surface location
    c. Proposed bottomhole location
    d. Ground elevation (in metres)
    e. Spacing area (in units)
    f. Identify the well type:
        i. Production
        ii. Injection
        iii. Disposal
        iv. Observation
        v. Storage
        vi. Experimental
        vii. Other (specify)
    g. Identify the well classification:
        i. Exploratory wildcat
        ii. Exploratory outpost
        iii. Development
    h. Drilling operation (deviation):
        i. Vertical
        ii. Directional
        iii. Horizontal
        iv. Slant
    i. Objective Zones (copy chart style below)

Objective Formation	Fluid (oil/gas/water)	Depth (mTVD)	Core (Y/N)

    j. Proposed Total Depth in mTDV and mMD.
    k. Formation of Total Depth
    l. Sour well? (yes or no)
        i. If Yes: Maximum H_2S concentration in mol/kmol
            Emergency planning zone radius in km
    m. Blowout Prevention (Well Class I – VI)
    n. Deviation Surveys
        i. Will be run at intervals less than 150m? (yes or no)
    o. Wireline logs
        i. Will run logs in hole for surface casing? (yes or no)
        ii. Will run a minimum of 2 porosity measuring logs? (yes or no)

G-2 On-Land Exploration

4. Indicate if the site contains any known:
    a. Waste Dumps
    b. Fuel and Chemical Storage Areas
    c. Sump Areas
    d. Waste Water Discharge Locations

5. Attach maps drawn to scale showing locations of existing and proposed items identified in (2) above, as well as all proposed:
    a. Sumps
    b. Water sources
    c. Fuel and chemical storage facilities
    d. Drilling mud storage areas
    e. Transportation routes
6. If utilising *fresh water*, estimate maximum drawdown and recharge capability of the river or lake from which water will be drawn.
7. Indicate if permafrost is expected to be encountered under:
    a. Camp Facilities
    b. Well Site
    c. Access Routes
    d. Sumps
    e. Other: _____
8. Indicate any potential for encountering artesian aquifers or lost circulation within the surface hole (to casing depth).
9. Will drilling wastes contain detrimental substances (including, but not limited to, oil-based or invert mud and high salinity fluids)? If yes, indicate the substances and estimated volumes.
10. Indicate methods for disposal of drilling wastes:
    a. Sump
    b. Down Hole (requires NEB approval)
    c. On-Site Treatment (provide plan)
    d. Off-Site (give location and method of disposal)
11. If a sump is being used, attach the following information:
    a. scale drawings and design of sumps
    b. capacity in cubic metres
    c. berm erosion protection
    d. soil permeability and type
    e. recycling/reclaiming waters
    f. surface drainage controls
    g. abandonment procedures
12. Attach the proposed or existing contingency plan which describes the course of action, mitigative measures and equipment available for use in the event of system failures and spills of hazardous materials.
13. Attach an outline of planned abandonment and restoration procedures.

G-3 Off-Shore Exploration

14. Will drilling wastes contain detrimental substances (including, but not limited to, oil-based or invert mud and high salinity fluids)? If yes, indicate the substances and estimated volumes.
15. Attach the proposed or existing contingency plan which describes the course of action, mitigative measures and equipment available for use in the event of system failures and spills of hazardous materials.
16. Attach an outline of planned abandonment and restoration procedures.
17. Please complete Section H

G-4 Rig

18. Type of Rig. Draw works, make and model
19. Derrick/Mast make and model
20. H.P. available to draw-works

SECTION H: Marine Based Activities **N/A**

H-1 Vessel Use

1. Describe the purpose of vessel operations.
2. List classes and sizes of vessels to be used.
3. Indicate crew size.
4. Indicate operating schedule.
5. Provide a description of route to be traveled (include map).
6. Indicate whether the vessel will call at any ports. If so, where and why?
7. Describe wastes produced or carried onboard including the quantities, storage, treatment, handling and disposal methods for the following:
    a. Ballast water
    b. Bilge water
    c. Deck drainage
    d. Grey and black water
    e. Solid waste
    f. Waste oil
    g. Hazardous or toxic waste
8. List all applicable regulations concerning management of wastes and discharges of materials into the marine environment
9. Provide detailed Waste Management, Emergency Response and Spill Contingency Plans
10. Does the vessel(s) possess an Arctic Pollution Prevention Certificate? If yes, indicate the date of issue and the name of the classification society.
11. Describe the source of fresh water and potable water
12. Indicate whether ice-breaking will be required, and if so, approximately where and when? Discuss any possible impacts to caribou migration, Inuit harvesting or travel routes, and outline proposed mitigation measures.
13. Indicate whether the operation will be conducted within the Outer Land Fast Ice Zone of the East Baffin Coast. For more information on the Outer Land Fast Ice Zone, please see the Nunavut Land Claims Agreement (NLCA), Articles 1 and 16.
14. Indicate whether Fisheries or Environmental Observers will be onboard during the proposed project activities. If yes, describe their function and responsibilities.
15. Describe all proposed measures for reducing impacts to marine habitat and marine wildlife (including mammals, birds, reptiles, fish, and invertebrates).

H-2 Disposal at Sea

1. Provide confirmation you have applied for a *Disposal at Sea* permit with Environment Canada
2. Provide a justification for the disposal at sea
3. Describe the substance to be disposed of, including chemical and physical properties
4. Indicate the location where the disposal is to take place
5. Describe the frequency of disposals (disposals per day/week or month)
6. Describe the route to be followed during disposal and indicate on a map.
7. Indicate any previous disposal methods and locations
8. Provide an assessment of the potential effects of the disposal substance on living marine resources
9. Provide an assessment of the potential of the disposal substance, once disposed of at sea, to cause long-term physical effects.
10. Describe all mitigation measures to be employed to minimize the environmental, health, navigational and aesthetic impacts during loading, transport and disposal.

SECTION I: Municipal and Industrial Development **N/A**

1. Describe the business type, including public, private, limited, unlimited or other.
2. Describe the activity (e.g. development of quarry, development of hydroelectric facility, bulk fuel storage, power generation with nuclear fuels or hydro, tannery operations, meat processing and packing, etc.).
3. Describe the production process or service provision procedures.
4. Describe the raw materials used in this activity, the storage and transportation methods. If hazardous materials are included in raw materials, products or by-products; include safety regulations methodology.
5. Provide detailed information about the structure and/or building in which the activity will be conducted.
6. List the PPE (personal protective equipment) and tools to be used to protect personal health and safety.
7. Describe the firefighting equipment that are or will be installed.
8. Describe the noise sources, noise level in work area, technical measurements that will be adopted to abate the noise levels and regulatory requirements for noise abatement and noise levels.
9. Describe the type of gaseous emission that will be produced during this activity. Include the allowable thresholds and mitigation measures.
10. Describe odours that the activity might release and include corresponding allowable threshold. Describe mitigation measures if thresholds are exceeded.
11. Describe radiation sources that might be emitted during the activity. Include type and source and include mitigation measures. Also describe preventative measures for human exposure (i.e. PPE).
12. Discuss the employee safety and environment protection training program.
13. If the activity involves a bulk fuel storage facility, include drawings showing the bulk fuel storage facility location in proximity to natural water courses, high water marks, etc.
14. If the activity involves the development of a new quarry or expansion of an existing quarry, complete Section C.

4. DESCRIPTION OF THE EXISTING ENVIRONMENT

Describe the existing environment, including physical, biological and socioeconomic aspects. Where it is appropriate, identify local and regional study areas.

Please note that the detail provided in the description of the existing environment should be appropriate for the type of project proposal and its scope.

The following lists are intended as a guide only.

Physical Environment
Please note that a description of the physical environment is intended to cover all components of a project, including roads/trails, marine routes, etc

- Proximity to designated environmental areas, including parks; heritage sites; sensitive areas, including sensitive marine habitat areas (recreational areas; sport and commercial fishing areas; breeding, spawning and nursery areas; known migration routes of living ;marine resources; and areas of natural beauty, cultural or historical history and; other) and protected wildlife areas; and other protected areas.

No change to this section, EXCEPT THAT it should be noted that the approved

equipment trail between Iqaluit and Chidliak camps, and the approved winter-trail network, will be operational and closely monitored throughout their use, via the Bulk-Fuel Management Plan, all Standard Operating Procedures for mobile equipment and the new Winter Trail Cleanup and Reclamation Stabilisation Plan.

- Eskers and other unique landscapes (e.g. sand hills, marshes, wetlands, floodplains). **N/A**
- Evidence of ground, slope or rock instability, seismicity. **N/A**
- Evidence of thermokarsts **N/A**
- Evidence of ice lenses **N/A**
- Surface and bedrock geology.

No change to this section.

- Topography.

Please see Geology section in previous amendment application and above.

- Permafrost (e.g. stability, depth, thickness, continuity, taliks). **N/A**
- Sediment and soil quality. **N/A**
- Hydrology/ limnology (e.g. watershed boundaries, lakes, streams, sediment geochemistry, surface water flow, groundwater flow, flood zones).

No change to this section.

- Tidal processes and bathymetry (freshwater) in the project area.

No change to this section, EXCEPT THAT it should be noted that the final EBA Engineering report on the bathymetric survey, issued in spring 2012, recommended adding a second contingency water source – Site E or "Contingency Lake #2" – to the supply inventory. [*Also please see responses to Questions #4, #5 and #21 above.]*

- Water quality and quantity.

No change to this section, EXCEPT THAT it should be noted that samples for the surficial water-quality programme were collected in one event in mid-July 2012, and results will be reported in the annual environmental-baseline report in late 2012 or early 2013.

- Air quality.

No change to this section.

- Climate conditions and predicted future climate trends.

No change to this section, EXCEPT THAT it should be noted that the remote-sensing meteorological station operated with fewer transmission interruptions between winter 2012 and the present. It is premature to draw conclusions from the data collected to date.

- Noise levels.

No change to this section.

- Other physical Valued Ecosystem Components (VECs) as determined through community consultation and/or literature review.

No change to this section.

Biological Environment

- Vegetation.

No change to this section, EXCEPT THAT it should be noted that a pedestrian habitat assessment was conducted in the vicinity of the CH-6 and CH-7 kimberlites in mid-July 2012, with results to be reported when available.

- Wildlife, including habitat and migration patterns.

No change to this section.

- Birds, including habitat and migration patterns.

No change to this section.

- Species of concern as identified by federal or territorial agencies, including any wildlife species listed under the *Species at Risk Act (SARA)*, its critical habitat or the residences of individuals of the species.
  No change to this section, EXCEPT THAT it should be noted that a raptor survey in mid-July 2012 resulted in observation of one Peregrine Falcon on a nest in cliff habitat.
- Aquatic (freshwater and marine) species, including habitat and migration/spawning patterns.
  No change to this section.
- Other biological Valued Ecosystem Components (VEC) as determined through community consultation and/or literature review.
  No change to this section.

Socioeconomic Environment

- Proximity to communities.
  No change to this section. [Please refer to <u>Map 1c</u> accompanying this application.]
- Archaeological and culturally significant sites (e.g. pingos, soap stone quarries) in the project and adjacent areas.
  No change to this section, EXCEPT THAT it should be noted that a late-July 2012 archaeological assessment resulted in discovery of an additional 14 sites within the Chidliak Project, several of which were suspected sites identified and reported by field staff prior to the survey and then confirmed.
- Palaeontological component of surface and bedrock geology. **N/A**
- Land and resource use in the area, including subsistence harvesting, tourism, trapping and guiding operations.
  No change to this section, EXCEPT THAT it should be noted that visits to and dialogue with communities occurred in autumn 2011 and spring 2012 and will continue on a regular basis.
- Local and regional traffic patterns.
  No change to this section.
- Human Health, broadly defined as a complete state of wellbeing (including physical, social, psychological, and spiritual aspects).
  No change to this section.
- Other Valued Socioeconomic Components (VSEC) as determined through community consultation and/or literature review.
  No change to this section.

5. IDENTIFICATION OF IMPACTS AND PROPOSED MITIGATION MEASURES

1. Please complete the attached Table 1 – Identification of Environmental Impacts, taking into consideration the components in Appendix A. Identify impacts in Table 1 as either positive (P), negative and mitigable (M), negative and non- mitigable (N), or unknown (U).
2. Discuss the impacts identified in the above table.
3. Discuss potential socioeconomic impacts, including human health.
4. Discuss potential for transboundary effects related to the project.
5. Identify any potentially adverse effects of the project proposal on species listed under the *Species at Risk Act (SARA)* and their critical habitats or residences, what measures will be taken to avoid or lessen those effects and how the effects will be monitored.
6. Discuss proposed measures to mitigate all identified negative impacts.

7. CUMULATIVE EFFECTS

Discuss how the effects of this project interact with the effects of relevant past, present and reasonably foreseeable projects in a regional context.

No change to this section, EXCEPT THAT it should be noted that the Aurora Camp is currently inactive, reducing overall camp activity in 2012-2013 [*see Map 3c*] and the adjoining Qilaq exploration property has decreased in size [*see Map 1c].*

8. SUPPORTING DOCUMENTS

Where relevant, provide the following supporting documents:

- Abandonment and Decommissioning Plan (**included with application)**
- Existing site photos with descriptions **(photos of terrain around cuttings-deposition areas, which are indicative of the general terrain, are included in *Appendix 9, "Bulk Sample Monitoring Plan"*)**
- Emergency Response Plan **(included with application)**
- Comprehensive Spill Prevention/Plan (must consider hazardous waste and fuel handling, storage, disposal, spill prevention measures, staff training and emergency contacts) **(included with application)**
- Waste Management Plan/Program **(Waste Management Strategy has been updated and is included as *Supplementary Document #3)***
- Monitoring and Management Plans (e.g. water quality, air pollution, noise control and wildlife protection etc.)
- If project activities are located within Caribou Protection Areas or Schedule 1 Species at Risk known locations, please provide a Wildlife Mitigation and Monitoring Plan

In addition, for Project Type 9 (Site Cleanup/Remediation), please provide the following additional supporting documents:

- Remediation Plan including cleanup criteria and how the criteria were derived.
- Human Health Risk Assessment of the contaminants at the site.

THE NUNAVUT IMPACT REVIEW BOARD
SCREENING PART 2 FORMS

TABLE 1 - IDENTIFICATION OF ENVIRONMENTAL IMPACTS

	ENVIRONMENTAL COMPONENTS	PHYSICAL	designated environmental areas (ie. Parks, Wildlife Protected areas)	ground stability	permafrost	hydrology/ limnology	water quality	climate conditions	eskers and other unique or fragile landscapes	surface and bedrock geology	sediment and soil quality	tidal processes and bathymetry	air quality	noise levels	other VEC:	other VEC:	other VEC:	BIOLOGICAL	vegetation	wildlife, including habitat and migration patterns	birds, including habitat and migration patterns	aquatic species, incl. habitat and migration/spawnin	wildlife protected areas	other VEC:	other VEC:	other VEC:	SOCIO-ECONOMIC	archaeological and cultural historic sites	employment	community wellness	community infrastructure	human health	other VSEC
PROJECT ACTIVITIES																																
CONSTRUCTION																																
OPERATION																																
DECOMMISSIONING																																

P *Positive*
N *Negative and non-mitigatable*
M *Negative and mitigatable*
U *Unknown*

MITIGATION FOR TABLE 1 IMPACTS:

Table 1is NOT fillable, so a simple set of charts for activities, components and impacts is produced below: Also refer to TEXT following the chart:

NOTE: There are NO transboundary effects.

PROJECT ACTIVITY: Bulk Sample within Focus Area.

Components which Might Sustain Impacts	**Rating (P, N, M, U or Not Applicable (N/A)**
Designated environmental areas.	**N/A** (property is not in a special area)
Ground stability.	**U** (no infrastructure requiring such testing)
Permafrost.	**U** (study in future as project advances and specific aspects become known.)
Hydrology/limnology.	**U** (sharpen study focus in future as project advances). 5 hydro stations for streamflow measurements have been utilised since 2009 and a preliminary desktop regional hydrology study has been undertaken.
Water quality.	**M** (mitigation measures – summer and winter water-quality sampling – have been described) Sampling will continue under renewed permit and licence, to continue accumulation of data for future monitoring.
Climate conditions.	**U** (study in future as project advances) A pilot project remote-sensing met-station was installed at Discovery Camp in 2010, with a Campbell Scientific datalogger backup for redundancy; data on basic parameters are collected real-time on an hourly basis. Data capture by means of met-station will continue under renewed permit and licence.
Eskers + other unique or fragile landscapes	**U** (eskers are not a common habitat; unique/fragile landscapes, likely to be associated with small ecoregions, would be determined + quantified via future detailed habitat assessment)
Surface + bedrock geology	**N/A** (no harm from this activity)
Sediment + soil quality.	**M** (mitigation measures have been described)
Noise levels	**U** (study in future as project advances)
Vegetation.	**U** (study in future as project advances); pedestrian habitat assessment in July 2012 surrounding CH-6 and CH-7 kimberlites, as well as prelim assessment of NRCan classification data to date indicates sparse vegetation in Bulk Sample Focus Area.
Wildlife, incl. habitat + migration patterns	**M** (environmental studies under way since 2009; mitigation measures have been described)
Birds, incl. habitat + migration patterns	**M** (environmental studies under way since 2009; mitigation measures have been described, *e.g.*, sampling protocol with CWS and height and distance restrictions)
Aquatic species, incl. habitat + migration/spawning	**M** (preliminary assessment of fish and fish habitat occurred in summer 2010 and will re-commence as project develops; study focus will be refined as/if project develops.
Wildlife protected areas.	**N/A** (property is not in a special area)
Archaeological + cultural historic sites	**M** (mitigation measures have been described) Peregrine has had an archaeological protocol in place since 2008 and has conducted 4 seasons of field assessments.
Employment	**P**
Community wellness	**P** (providing employment + services brings $ into community, sense of self-esteem)
Community infrastructure	**N/A** (project is too small + not near community)

Human health	**N/A** (project is too small + not near community)

No change to the text in this section from the amendment application of September 2011. In the NIRB Part 2 Form of September 2011, the text was located on Pages 38-39.