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January 2004

Nunavut Water Board
FEB 16 2004
Public Registry

SENT VIA Mail

Mr. Philippe di Pizzo
Executive Director
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0E1J0

Re: License Number NWB2SNN0305 2003 Land Use Report

Please accept the following Land Use Report covering the 2003 exploration work under Nunavut Water Board license number NWB2SNN0305 (2 copies). The work was completed by APEX Geoscience Ltd. on behalf of Navigator Exploration Corp., Stornoway Diamond Corp. and Strongbow Resources Inc.

Please contact me at the above numbers should there be any further questions, comments or further requested information regarding the enclosed document and maps.

Sincerely,

Kris Raffle
Project Geologist

Cc: Dean Besserer, Apex Geoscience Ltd.

COPY

NTS 46J,N, O, P
47A, B, C, D, E

LAND USE REPORT (2003)
LICENSE NUMBER NWB2SNN0305
Navigator Exploration Corp., Stornoway Diamond Corp. and Strongbow Resources Inc.

Company Name:	Navigator Exploration Corp., Stornoway Diamond Corp. and Strongbow Resources Inc.
NWB License Number:	NWB2SNN0305
Nature of Report:	Drilling and temporary camp water usage
Dates Fieldwork Performed:	July 18, 2003 to October 6, 2003
Location of Claims:	Melville Peninsula, Nunavut Territory
Lat./Long:	69°17' N 83°23' W

APEX Geoscience Ltd.

January, 2004

Dean Besserer
Kris Raffle

LAND USE REPORT (2003)
LICENSE NUMBER NWB2SNN0305
Navigator Exploration Corp., Stornoway Diamond Corp. and Strongbow Resources Inc.

Table of Contents

	Page
Introduction	1
Location of Land Use Area	1
Summary of 2003 Field Activities	1
Land Use Considerations	2
Camp Locations	Appendix 1
Drill Hole Locations	Appendix 2
Abandonment and Restoration Plan	Appendix 3
Environmental Procedure Plan	Appendix 4
Spill Contingency Plan	Appendix 5
2003 Land Use Map	Figure 1

LAND USE REPORT (2003)
LICENSE NUMBER NWB2SNN0305
Navigator Exploration Corp., Stornoway Diamond Corp. and Strongbow Resources Inc.

Introduction

APEX Geoscience Ltd. (APEX) was retained as consultants to conduct exploration on behalf of Navigator Exploration Corp., Stornoway Diamond Corp. (formerly Northern Empire Minerals Ltd. and Stornoway Ventures Ltd.) and Strongbow Resources Inc., operators of the Aviat Diamond Project. Work was completed between July 2003 and October 2003. Fieldwork encompassed till sampling, prospecting, quaternary mapping, and exploration diamond drilling. The work was conducted under water license number NWB2SNN0305 granted to Navigator Exploration Corp., Stornoway Diamond Corp. and Strongbow Resources Inc.

Location of Land Use Area

The area covered by 2003 exploration programs included NTS map sheets 47A, 47B, 47C, 47D, 47E, 46N, 46O and 46P. This area is located between 120 kilometres east of Repulse Bay and approximately 75 kilometres north of Igloolik, Nunavut and between 66°40' N / 83°50' W and 70°08' N / 82°00' W. Till sampling crews stayed in Igloolik and in temporary tent camps. Drilling crews were based exclusively out of Igloolik. Both were transported to the field daily by helicopter (Kitikmeot Helicopters, Cambridge Bay, Nunavut and Great Slave Helicopters, Yellowknife, Northwest Territories) for the entire field season.

Summary of 2003 Field Activities

A mobile camp setup consisting of two prospectors tents and six small camping tents was utilized between July 18, 2003 and September 8, 2003. Temporary camps were placed at two separate locations during summer field activities (Figure 1, Appendix 1). Camps consisted of an eight (8) person till sampling crew and up to two helicopters.

Exploration diamond drilling consisting of ten (10) holes totaling 1103m was completed during September 2003 (Appendix 2). Drilling was confined to the AV-1 and AV-2 kimberlites. Seven (7) holes were drilled into the AV-1 target the remaining three (3) holes were drilled into the AV-2 target.

Land Use Considerations

Camp locations were chosen based on position relative to the exploration area, presence of a landing strip for fixed-wing aircraft, a water source for camp use and with consideration of major wildlife migratory paths. The southernmost camp location was located on an esker approximately 300 x 200m. There were two small lakes approximately 300m east of the esker and a creek approximately 800m north of the esker. The northernmost camp was located close to a gravel airstrip near the northern shore of Sarcpa Lake.

Water for domestic use came from local lakes and was collected using a submersible pump with a filtered intake. Usage was estimated at 1 gallon per person/day. Camp greywater, estimated less than 20 gallons per day was disposed of in a 2 x 2 x 0.5m sump. Camp sewage of approximately 1 gallon per day was collected in pit toilets. All tents, camp equipment, empty fuel drums and garbage were flown back to Igloolik via Twin-Otter following the completion of sampling. Greywater sumps and outhouse pits were back filled.

Drill Sites were selected so that there would be minimal damage to the environment. Natural depressions of adequate size to contain all potential drilling water/fluids and cuttings were used as sumps. Biodegradable drilling fluids were used and were disposed of according to regulations and land use permit requirements. All waste material was removed from the drill site. Drip pans and/or absorbent matting was placed beneath any equipment that required petroleum products, drilling additives, etc. to prevent accidental spillage or contamination of these materials to the environment. All drill holes were plugged immediately upon completion, to eliminate any hazard to wildlife. The remaining casing was cut off to ground level or below and capped. No spillage or accidental contamination by petroleum products or drill cuttings occurred during 2003 drilling.

Please see the attached Environment Procedure Plan, Spill Contingency Plan and Abandonment and Restoration Plan for a more comprehensive report on land use considerations (Appendices 3, 4 and 5).

Respectfully Submitted,

Dean Besserer, B.Sc., P.Geol.

Kris Raffle, BSc.

Apex Geoscience Ltd.
Edmonton, AB
January 2004

Appendix 1
Aviat Camp Locations

Aviat Project Camp Locations

Camp	UTM Nad27/Z16		dd° mm' ss.s"	
	Easting	Northing	North	West
Sarcpa Lake	651250	7606370	68° 31' 49.4"	83° 17' 43.2"
South Aviat	677959	7491959	67° 29' 29.0"	82° 49' 55.0"

Appendix 2
Aviat Drill Hole Locations

Aviat Project Drill Hole Locations

Hole ID	UTM (NAD27/16W)		dd.dddd		Azimuth (grid)	Dip	Depth
	Easting	Northing	North	West			
03-AV1-01	642484	7690010	69.2836	83.3892	180	-45	95
03-AV1-02	642483	7690014	69.2837	83.3892	180	-60	83
03-AV1-03	642429	7690041	69.2839	83.3905	180	-45	114
03-AV1-04	642433	7690045	69.2840	83.3904	180	-60	140
03-AV1-05	642389	7690059	69.2841	83.3915	180	-45	107
03-AV1-06	642394	7690063	69.2841	83.3914	225	-45	152
03-AV1-07	642503	7690014	69.2836	83.3887	150	-45	131
03-AV2-01	646073	7688435	69.2676	83.3009	90	-60	55
03-AV2-02	646034	7688380	69.2671	83.3020	70	-45	86
03-AV2-03	646016	7688519	69.2684	83.3022	124	-45	140
						Total (m)	1103

Appendix 3
Abandonment and Restoration Plan

Stronoway Diamond Corp., Navigator Exploration Corp, Strongbow Resources Inc.

Abandonment and Restoration Plan

Upon completion of the land use operation and exploration of the Aviat Project, the flowing steps and procedures will be implemented to allow proper abandonment and reclamation of the area. This plan will be updated on a yearly basis and/or when changes to the exploration plan warrant it.

Greywater sumps and sewage pits at the camp(s) will be back filled.

All remaining garbage will be incinerated in an incinerator or modified burn drum.

All wood (tent floors, frames etc.) will be removed from the site to an approved landfill site or will be burned along with all other combustible material in an incinerator or modified burn drum. If the wood and/or combustible material is burned on site, the coals and ashes will be raked for non- combustible items, which will then be collected and removed from the site to an approved landfill site. The remaining coals and ashes will be buried.

All camp materials, fuel drums, and drilling equipment will be removed from the site.

All drilling sumps will be backfilled, burying the unused cutting and drill waters. Drill sites and sumps will be recontoured where necessary. Drill holes will be will be plugged and permanently sealed upon completion of the project.

Each drill site will be inspected prior to departure to make sure all garbage has been removed and any disturbed ground will be reclamated.

The above procedures have been put in place to ensure that once Stornoway Diamond Corp., Navigator Exploration Corp. and Strongbow Resources Inc. are off site, there has been minimal impact to the environment.

Appendix 4
Environmental Procedure Plan

ENVIRONMENTAL PROCEDURE PLAN FOR EXPLORATION AND REMOTE CAMPS

Stornoway Diamond Corp., Navigator Exploration Corp., Strongbow Resources Inc.

December 2003

ENVIRONMENTAL PROCEDURE PLAN FOR EXPLORATION AND REMOTE CAMPS

Table of Contents

	Page#
INTRODUCTION	3
1. PLANNING	3
2. STAKEHOLDERS	4
3. FLORA AND FAUNA	5
4. AIRBORNE OPERATIONS	5
5. LAND DISTURBANCE	6
6. TRAVERSING	7
7. DRILLING OPERATIONS	7
8. CAMP SITE SELECTION AND DESIGN	9
9. WATER MANAGEMENT	9
10. HAZARDOUS MATERIALS	9
11. WASTE MANAGEMENT	12
12. REHABILIATION	12
13. REPORTING AND RECORDS MANAGEMENT	13

The following Environmental Principles have been developed by Stornoway Diamond Corp., Navigator Exploration Corp. and Strongbow Resources Inc.

These principles form the guiding base for the Environmental Operating Procedures that apply to all of our exploration activities within the Nunavut Territory.

- Environmental management is an integral component of our exploration programs and is the responsibility of all program personnel.
- Any potential environmental impact from our activities will be assessed and minimized.
- Environmental standards and quality of work will be continuously improved and maintained in conjunction with effective exploration.
- All relevant government laws and regulations for the protection of the environment will be known and complied with.
- All contractors and employees will be informed of our Environmental Policy, Environmental Principles, Environmental Management Standards, Environmental Operating Procedures and their designated environmental responsibilities.
- Effective communication and a close liaison will be maintained with nearby communities and regulatory authorities.
- Exploration activities will be conducted with due regard for the protection of wildlife, flora and sites of natural, cultural and historical significance.
- Programs will be established to recycle and conserve resources.

Environmental Operating Procedures

INTRODUCTION

Stornoway Diamond Corp., Navigator Exploration Corp. and Strongbow Resources Inc. are committed to maintaining high standards in environmental practices.

Exploration activities generally have a very low degree of impact upon the environment. We work in remote and relatively pristine areas, with particularly sensitive ecosystems and challenging environmental and climactic conditions. We must be diligent and innovative in the management of our activities to ensure minimal impact to the environment.

1. PLANNING

Exploration programs will be carefully planned to minimize disturbance and effectively manage environmental risks.

Risk Assessment

The activities associated with the proposed exploration program will be assessed for environmental risks and impacts. Variables such as topography, climate, fauna, vegetation and stakeholders must be considered. Procedures and/or processes will be implemented to manage and mitigate the identified environmental risks and impacts.

Emergency Preparedness

A Spill Contingency Plan has been established for exploration programs and remote camp locations.

The plan includes contingencies for probable environmental emergencies as a result of natural occurrences and/or as a result of program activities.

Expenditure / Budget

Activities such as site clearance surveys, environmental training, and rehabilitation will be included in the program budget. These are a genuine program costs and must be treated as such. Good environmental planning and management will minimize environmental damage.

Due Diligence

The environmental status of land will be reviewed prior to acquisition and any potential environmental liabilities recognized. This may involve discussions with landholders or joint venture partners, on-site inspections, reviewing maps, photographs arid previous reports of the area. This process will be continued during the life of the program and will include mapping or photographing of possible sensitive sites.

Legislative Requirements

All relevant legislation will be known, communicated and complied with.

Approvals

Any stakeholders of the land that will be explored will be notified. Relevant approvals from stakeholders and regulatory authorities will be obtained before exploration commences.

Responsibilities and Accountabilities

Environmental responsibilities will be assigned and communicated to all members of the program team. This includes employees, contractors and sub-contractors. Contractor responsibilities will be outlined in the environmental schedule of the contract. The primary responsibility for protecting the environment from impacts related to program activities is assigned to the Program Supervisor.

Induction and Training

Field employees and contractors will undergo an environmental induction that includes relevant regulations.

Contractors

Preference will be given to contractors who display high standards of environmental management and performance.

Closure Planning

The short term and long term environmental implications of our activities must be considered and plans developed to eliminate or mitigate these impacts upon program closure.

2. STAKEHOLDERS

A stakeholder is an individual or group (i.e. landholder, local group, regulatory authority, community, etc.) concerned with or potentially affected by our exploration activities. Stakeholders will be identified for each program. Regular communication will be maintained with these stakeholders for the duration of the program, and afterwards in some cases. Any agreement made with stakeholders should be documented.

Cultural and Heritage Issues

Cultural objects, remains and sites of spiritual, archaeological, anthropological or historical significance will be protected.

- Surveys may be required to identify sites of sacred, heritage and cultural significance. The results of these surveys must be documented.
- Any additional sites encountered during exploration will be left undisturbed and reported to

the appropriate authority.
- Any discussions with local communities or traditional owners should be documented.

3. FLORA AND FAUNA

All reasonable care will be taken to avoid interference with rare or endangered species of native flora or fauna.

Flora
- All reasonable care will be taken to avoid unnecessary impacts to flora and to mitigate required impacts.

Fauna
- Hunting is prohibited.
- Firearms and domestic animals are not permitted unless special permission has been obtained from the Exploration Manager.

4. AIRBORNE OPERATIONS

Our exploration activities require airborne support due to the remote locations. Additionally, due to the lack of serviceable airstrips in the region, this support involves aircraft equipped for off-strip operations (float planes, helicopters). These types of aircraft have a minimal potential impact upon the environment. The potential impacts include: petroleum product spill and disturbance of fauna and people from low altitude flying and frequent landings/take-offs. The likelihood of disturbing or disrupting people is considered low due to the remote locations of the activity. All stakeholders will be contacted prior to the commencement of operations. The requests of all stakeholders will be respected.

Airstrips
Only existing airstrips will be used.

Helipads
Helicopter landings and take-offs have little impact upon the flora or ground surface. However, helicopters require an area clear of obstructions that allows for safe maneuverability of the aircraft. The size of this area is dependant upon the aircraft type. The vast majority of our operations to date have been north of the tree line where the clearing of vegetation for landing site preparation is unnecessary.
- Landing sites will be selected, whenever possible that have a competent ground surface and are naturally free of vegetation or marginally covered.
- Landing sites that are designated for repetitive use which are blanketed by ground cover vegetation must have a helipad constructed.
- Helipads will be constructed in such a way as to minimize surface contact with vegetation.
- Helipads will be constructed using dimensional lumber unless trees that have been cleared for the landing site are suitable for use.
- Vegetation clearing will be conducted as per the relevant section under "Land Disturbance" of this document.

Fuel
Aviation fuel at exploration operations is contained in 205 litre steel drums for ease of handling. These drums are stored horizontally on the, ground with the bungs positioned at the mid-way point. This storage method prevents contact of surface water with the bungs and possible contamination of the fuel and keeps the bung seals submerged in fuel, which prevents the seals from drying out and leaking.

- Fuel drums will be stored at a distance of no less than 100 metres from any surface water

source (e.g. lake, stream, pond, etc.)

- Remote fuel storage locations (e.g. outside of camp) will be plotted on a suitable topographic map and the GPS positions will be recorded. An updated inventory of the fuel used will be maintained.
- Regular visual inspections will be conducted of all fuel caches
- Empty or otherwise no longer required fuel drums will be retrieved from all locations. Empty drums will be returned to the fuel supplier for recycling.
- Full fuel drums will not be stored remotely for more than one year.
- Fuel storage locations will have a suitable spill response kit.
- Refuelling locations will have a suitable fire extinguisher.
- Spill prevention measures will be implemented prior to refuelling (e.g. drip pan).

5. LAND DISTURBANCE

All necessary permits and permissions will be obtained prior to conducting any land disturbance. Great care will be taken to avoid and/or minimize land disturbance such as earthmoving and vegetation clearing. When clearing is unavoidable, it must be carried out in a manner that does not promote erosion. Whenever possible, areas that are naturally free of vegetation will be selected for logistical support sites (e.g. campsite, heli-pad). Operations requiring vehicle access will be conducted during the winter-spring period in order to take advantage of ice-covered waterways and frozen snow-covered ground to prevent disturbance of the soil and ground cover vegetation.

Supervision

Earth moving and clearing activities will be supervised at all times by a Stornoway Diamond Corp., Navigator Exploration Corp. or Strongbow Resources Inc. representative who should clearly define the area to be disturbed using temporary markers.

Earthmoving

Earthmoving is limited to the construction of small pits and sumps for the collection and disposal of benign waste (e.g. ashes/coals from burnt garbage, drill fluids, greywater and sewage).

Topsoil (or surface material useful for regeneration or re-vegetation) will be removed and stockpiled separately from subsoil. Topsoil should be returned as soon as possible (preferably within six months) to maintain seed viability, nutrient quality and microbial activity.

Clearing Vegetation for Vehicle Access

Since all operations requiring vehicle access will be conducted during the winter-spring period, the only vegetation clearing that may be necessary involves the removal of trees. This should only be done if access cannot be obtained via frozen waterways, natural and/or existing clearings and existing tracks.

- Keep the track width to a minimum.
- Weave around large trees and avoid creating long straight stretches.
- Use naturally cleared areas and consider the thickness of vegetation.
- Tracks should be positioned along ridges.
- Whenever possible, avoid clearing on steep slopes, side hills and drainage banks.

Clearing Vegetation in General

- Determine the exact requirements to avoid unnecessary and excessive clearing.
- Lop branches in preference to felling trees.
- Leave felled timber in a manner acceptable to the authorities. Otherwise, stockpile the cleared vegetation for subsequent re-spreading over the track. This is to protect exposed soil from erosion and to enable seed stocks to regenerate. Do not place felled vegetation

where it will alter or disturb natural drainage channels.

Geochemical Sampling
When taking soil/ till samples, areas naturally free of vegetation (frost boils) will be selected whenever possible. When this is not possible the organic layer and any topsoil should be put to one side and replaced after the sample is collected.

6. TRAVERSING

Gridding

- Foot accessible grid lines for geophysics, geochemistry and geology will be at minimal width.
- No large trees are to be felled. Branches will be cut to allow foot access and line of sight.
- The blazing of trees will be avoided unless required by government regulations.
- Do not leave pointed stakes that will endanger humans or animals.
- Wooden survey pegs will be used in preference to steel.
- Steel markers will only be used as permanent survey points and where possible will be positioned where they will not cause injury to animals or people, or interfere with vehicle movement.
- Care will be taken to ensure all pegs are removed at the completion of exploration.
- Flagging tape and spray paint will be used sparingly. If possible, biodegradable items will be used.
- Hip-chain line will be broken after crossing a track or trail and care taken to ensure that the line has fallen clear of the right of way.

EM Induction Surveys
Wires will be watched, if practicable, during surveys to avoid endangering animals or people in the area. If potential exists for other people to be present in the area, warning signs will be erected. At no time are wires or cables to be left unattended.

7. DRILLING OPERATIONS

Contracts for exploration drilling services will stipulate adherence to the environmental component of the Stornoway Diamond Corp., Navigator Exploration Corp. and Strongbow Resources Inc. Responsibly Policy and these Environmental Procedures and include penalties for non-compliance.

Drill Sites

- Select sites to minimize damage to the environment.
- Sites should be as small as practicable but include enough area for fire protection.
- Avoid locating drill sites on steep slopes.
- The drill will be supported above ground using lightweight cribbing
- Drill moves will be completed by helicopter. The drill will NOT be skidded on surface.
- Prepare sites as per the guidelines in section 5 (Land Disturbance)

Sumps

- Natural depressions will be used in preference to excavation.
- Ensure the number and size of sumps is adequate to contain all potential drilling fluids.
- Sumps should be positioned down slope of drill collars to ensure run-off flows into the sump.
- If excavation is required, the organic layer and any topsoil should be stockpiled separately for replacement during backfilling.
- Excavated sumps should be fenced or barricaded until they have been backfilled.

- Excavated sumps should be allowed to dry out (by evaporation) prior to burial.

Drilling Fluids

- Bio-degradable drilling fluids will be used at all times where possible.
- Drilling fluids will be contained in sumps or by another suitable and approved method (e.g. tank).
- Fluids will be disposed of according to regulations.

Groundwater

- If encountered, artesian water flow will be controlled to prevent erosion of the ground surface and the silting of watercourses.

Waste

- Receptacles will be provided for rubbish at drill sites. No waste of any description will litter the site.
- Food waste will be removed from drill sites daily.
- Waste will be disposed of according to regulations and land use permits.

Reverse Circulation/Percussion

When handling drill samples (cuttings), care will be taken to prevent mixing of sub-soil with topsoil if they are significantly different from each other. A tarp or similar device should be placed around the hole to contain drill cuttings and to prevent contact with the ground surface. Water injection should be used to control dust. On completion of the hole, all cuttings not required for analysis or storage will be poured back into the hole or otherwise disposed of according to regulations.

Drilling on Ice

Drilling fluids and cuttings will be contained to prevent contact with the ice surface or water. A method to clean up an accidental spill of this material will be devised and the required equipment made available prior to the commencement of operations. Fluids and/or cuttings will be disposed of on land in a natural depression or excavated sump or otherwise in accordance with the land use permit.

Spill Prevention

Methods will be implemented for the handling and care of petroleum products, drilling additives, etc. so as to prevent accidental spillage of these materials. Drip pans will be placed under leaking equipment and, if practicable, the leaks will be repaired as soon as possible.

Core Cutting

Wastewater from core sawing will be controlled to prevent erosion of the ground surface and the silting of watercourses. Where practicable, it should be contained and recycled through the core saw,

Cuttings from sulphide-rich core have the potential to acidify any soils with which they contact. All cuttings and unwanted core off-cuts or pieces will be contained and disposed of by burial or otherwise disposed of according to regulations.

Capping of Drill Holes

- All holes will be temporarily plugged immediately upon completion, using whatever safe means available (e.g. rocks), to eliminate any hazard to wildlife.
- Prior to, or on completion of the program, all open holes will be plugged with a proper down-hole plug and the area above the plug filled in.
- If later relocation of the hole is not required, casing will be removed whenever possible.
- Remaining casing will be cut off to ground level or below and capped.
- Any excess drill chips will be poured back down the hole.