



## **Committee Bay Project**

### ***Spill Prevention and Response Plan***

#### ***Revision 3***

North Country Gold Corp.  
October 2015

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## 1.0 **DOCUMENT CONTROL**

Version	Date	Section	Pages	Revision
1	17/11/2014	all	all	Update and revision to existing NCGC Spill contingency and response plan.
2	20/01/2015	8.0, 14.0	13, 25	Updated "Peter Kusaguk" to AANDC Manager of Field Operations
3	27/10/2015	2.0, 3.1, 6.1.2, 6.1.3, 7.0, 10.4, 14.0	4, 5, 9, 10, 20, 26	Update to Company and Project Background, Updated company information, Camp description revision, Updated to include specific spill containment and cleanup strategy for methyl hydrate, Update to contact information.

## **2.0 COMPANY AND PROJECT BACKGROUND**

North Country Gold Corp. ('NCGC') is a Canadian based exploration company conducting mineral exploration within the Committee Bay area in the eastern portion of the Kitikmeot Region, Nunavut Territory, Canada. In September 2015 NCGC was acquired by Vancouver based gold junior Auryn Resources Inc. NCGC remains as the Committee Bay Project ('CBP') operator but is now a 100% owned subsidiary of Auryn Resources Inc (TSX code: AUG.V).

The Committee Bay Project comprises mineral claims and leases located on both Crown Land and Inuit owned (surface rights) land pursuant to the Nunavut Land Claims Agreement. The project encompasses NCGC's flagship Three Bluffs gold deposit, numerous high grade gold exploration targets, four exploration camps and a number of fuel and equipment caches.

Exploration work programs are generally undertaken as seasonal campaigns occurring between March and October in any given year, largely dictated by market conditions. Work activities comprise claim and lease staking, prospecting, geological mapping, rock, till and soil sampling, airborne and ground geophysics and drilling. Supplies, including fuel are airlifted to the CBP from various towns and cities in Nunavut, Manitoba and the Northwest Territories.

In 2011, NCGC initiated an upgrade of its primary camp, Hayes Camp. These upgrades were designed to increase the camp capacity to 100 people and improve the overall safety, working conditions and environmental impacts of ongoing work at the Three Bluffs gold deposit. Upgrades completed in 2011 comprised construction of additional camp accommodation, the installation of new washroom facilities, quonset structures, a dual chambered incinerator, waste water treatment system, and initiation of the construction of a 3000' airstrip. NCGC intends to continue these camp upgrades and to construct an all-weather road from Hayes Camp to, and within, the Three Bluffs drilling area in coming years.

NCGC has the following permits and licences in place to support advanced exploration activity at the CBP.

Organization	Description	Permit/Licence #
Nunavut Impact Review Board	Project Reference Number	07EN021
Aboriginal Affairs and Northern Development Canada (AANDC)	Land Use Permit (Bullion camp)	N2014C0002
	Land Use Permit (Hayes camp)	N2014C0005
Kitikmeot Inuit Association	Land Use Licence for IOL (Ingot /Crater camps)	KTL314C003
Nunavut Water Board (NWB)	Water Licence	2BE-CRA11520
Aboriginal Affairs and Northern Development Canada (AANDC)	Commercial Leases	Lease 065J/11-1-2
		Lease 065J/12-1-2

### **3.0 INTRODUCTION**

This document has been developed to outline the spill prevention and response plan to be implemented on all NCGC exploration and work sites within the Committee Bay Project. This plan is one of a number of plans established by NCGC designed to minimize pollution, protect the environment and the health and safety of all workers and contractors and the community at large from any effects of its materials and operations.

This document is designed to meet all regulatory requirements and forms part of NCGC's Nunavut Water Board ('NWB') Water Licence renewal application. Once approved, this document will be in effect from 01 April 2015 for the duration of NCGC's water licence. NCGC will conduct annual reviews of this document to address changes in technology and operational practises. Changes will be implemented upon approval from the NWB.

This Spill Prevention and Response Plan will be posted at all operational sites where fuel, oil, lubricants, and all other hazardous materials are stored. Personnel will be trained to mitigate risks and avoid spills and to activate this plan to respond to spills as necessary.

#### **3.1 *Company information***

This document has been prepared by:

North Country Gold Corp. (parent)  
Committee Bay North Ltd. (subsidiary)

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Attention: Simeon Robinson (Project Manager)

## **4.0 SCOPE AND OBJECTIVES**

This document has been developed to describe and outline the measures employed NCGC to minimize and mitigate the risk of accidental release of deleterious materials into the environment and the procedure to be taken in the event of such discharge.

This plan is designed to work in conjunction with other operational plans including NCGC's *Fuel Management Plan* and *Comprehensive Waste Management Plan*. The overall objective of these plans is to promote the safe and careful use of potentially hazardous materials. In the event that accidental discharge of deleterious material occurs a response procedure has been developed to:

- ensure the health and safety of workers
- clearly outline how to activate spill response and immediate actions to take
- clearly identify roles, responsibilities and reporting procedures for spill events
- provide readily available emergency information to cleanup crews, management and government agencies
- provide site specific information on the resources available to address a spill
- provide procedures for the safe containment and cleanup of spills
- provide guidelines for post spill monitoring and reporting

## **5.0 ENVIRONMENTAL POLICY**

This *Spill Prevention and Response Plan* has been prepared in accordance with the commitments made by NCGC's environmental policy (NCGC Corporate and Social Responsibility Plan). NCGC embraces safe, socially and environmentally responsible and sustainable work practises during all phases of exploration activities within the CBP. To achieve these goals NCGC aims to:

- Conduct all work practises with due regard for the protection of the health and safety of all workers, contractors and the community at large
- Conduct all work practises with due regard for the protection of the environment, flora, fauna and sites of natural, cultural and historical significance
- Conduct all work practises in compliance with all laws, regulations, standards, permits, licences and best practises
- Assess the potential environmental impacts of all work practises and to ensure that effective controls are in place to minimize, mitigate and manage risks
- Take prompt and appropriate corrective actions should unexpected environmental impacts occur
- Ensure effective communication and close liaison is maintained with employees, the public, communities, government agencies, regulators and all stakeholders with regard to health, safety and environmental matters

- Undertake sustainable work practises wherever possible by implementing practises to reduce, reuse and recycle resources, and considering environmental factors in the purchase of supplies and equipment and development of procedures.
- Ensure that all employees and contractors are aware of NCGC's environmental commitments, policies and procedures and that these principles are embraced in all work practises.

## 6.0 **PROJECT DESCRIPTION**

NCGC's Committee Bay Project encompasses a number of mineral claims and leases occurring within a corridor originating at Committee Bay and extending approximately 300 km to the southwest towards Agnico Eagle's Meadowbank Mine within the eastern Kitikmeot region of Nunavut Territory (Figure 1).

NCGC presently operates four permitted camp sites, a number of fuel and equipment caches, and a number of drill sites along this corridor. The locations of camps and caches are presented in table 1. Details plan of camp layouts are presented in Appendix 1.

<b>Site</b>	<b>UTM Coordinates (NAD 83)</b>			<b>Latitude</b>	<b>Longitude</b>
<i>Name</i>	<i>Zone</i>	<i>Easting (m)</i>	<i>Northing (m)</i>	<i>D°M'S"</i>	<i>D°M'S"</i>
Hayes Camp	15 N	564,613	7,394,173	66°39'30" N	091°32'11" W
Bullion Camp	15 N	494,850	7,363,850	66°23'39" N	093°06'55" W
Ingot Camp	15 N	516,500	7,386,100	66°35'40" N	092°37'34" W
Crater Camp *	16 N	677,781	7,478,788	67°22'19" N	088°51'24" W
Three Bluffs Drill Area	15 N	569,153	7,392,660	66°38'42" N	091°26'12" W
Waste Plains Cache	15 N	479,650	7,342,810	66°12'19" N	093°27'02" W

Table 1 – Camps and caches within the Committee Bay Project

Notes: \* Crater camp buildings, fuel and infrastructure have been removed.



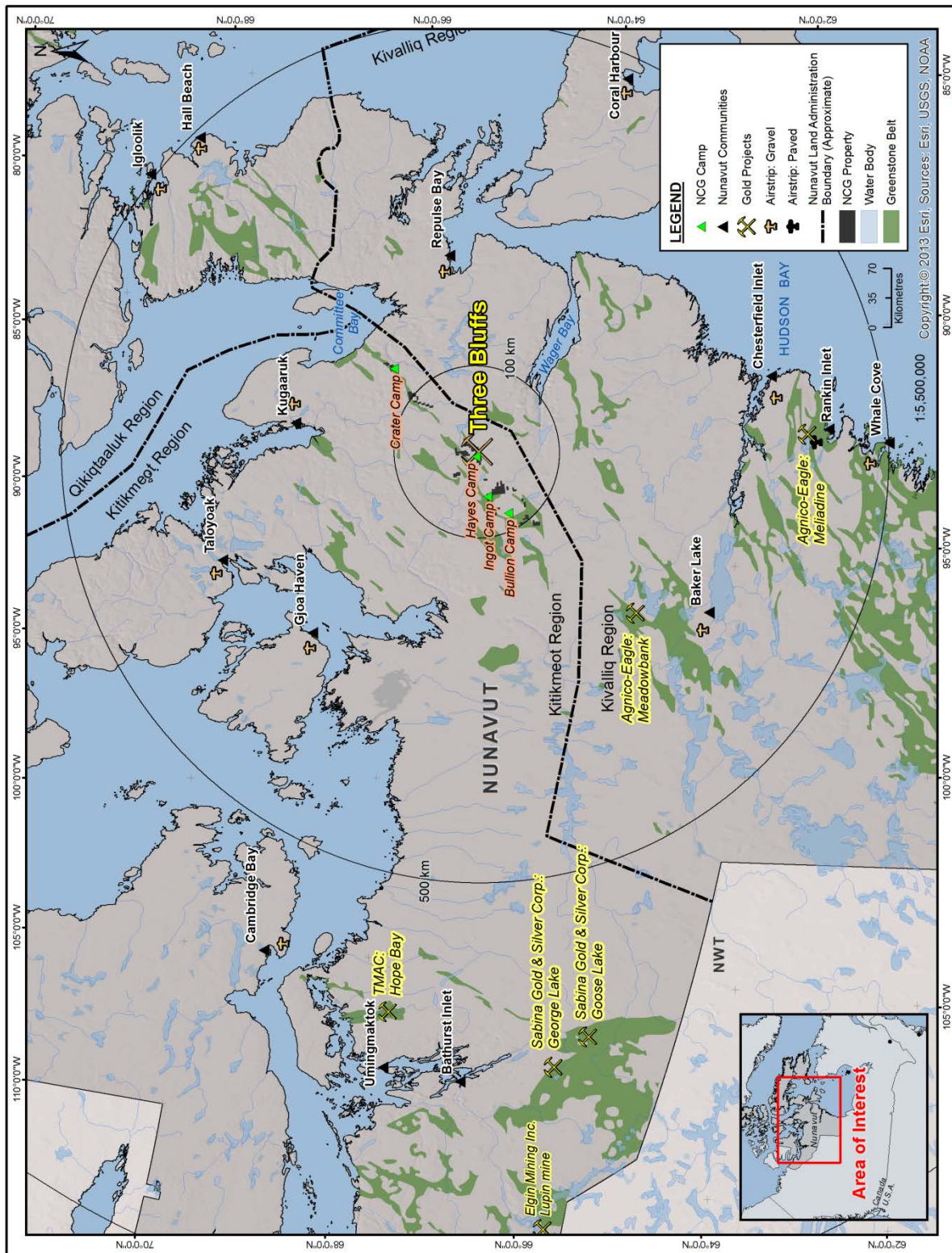


Figure 1 - Committee Bay Project Location

## **6.1 Camps**

### **6.1.1. Hayes Camp**

Hayes Camp is located approximately central within the Committee Bay project, 335 km northeast of Baker Lake, 400 km north of Rankin Inlet and 220 km south of Kugaaruk. Hayes camp provides accommodation for up to 100 people. The camp is supported by a 3000' graded esker airstrip and a prepared 5200' winter ice airstrip which is constructed on the adjacent Sandspit Lake. Mobile equipment and earthmoving equipment, power generators, a dual chambered incinerator, fuel and oils are stored at Hayes camp. Quarrying operations occur at Hayes Camp on a seasonal campaign basis.

A detailed list of buildings and equipment is provided in Appendix 2.

### **6.1.2. Bullion Camp**

Bullion Camp is a small, 20-40 person camp used to support seasonal exploration campaigns in the southern portion of the project. This camp is supported by a short 320 m tundra airstrip, a small generator and a small drummed fuel cache. A quad may be utilized to transport supplies and equipment within the camp area.

### **6.1.3. Ingot Camp**

Ingot Camp is a small up to 10-20 person camp used to support seasonal exploration campaigns in the central southern portion of the project. This camp is supported by a 230 m tundra airstrip. A small generator and limited quantities of fuel may be stored at this camp when active.

### **6.1.4. Crater Camp**

All buildings, fuel and equipment was removed from the Crater Camp site in 2012.

## **6.2 Caches**

### **6.2.1. Three Bluffs drill area and cache**

The Three Bluffs drill area and cache is located approximately 5 km east-southeast of Hayes Camp. This area encompasses the Three Bluffs gold deposit, NCGC's drill water system and associated buildings, generators, boilers, piping and tanks and a number of diesel and jet fuel drum caches (detailed plan in Appendix 1). Skid mounted drill shacks and drill support equipment is located in this area.

### 6.2.2. West Plains Cache

The West Plains Cache comprises a small cache of drilling equipment (drill rods, core trays, drill setup timbers and a survival tent). Small quantities of drummed diesel and jet fuel and salt may be stored at this cache.

### 6.2.3. Temporary Caches

NCGC may temporarily store limited quantities of fuel, supplies and equipment in remote locations across the CBP to support remote exploration activities away from existing facilities. Fuel caches at these temporary caches will comprise less than 4000 litres of drummed diesel or jet fuel.

## 7.0 HAZARDOUS MATERIALS

Hazardous materials stored at the CBP consist of the following substances:

- P-50 Diesel
- Jet A or Jet B Aviation Fuel
- Gasoline
- Grease (mechanical lubricants)
- Engine oil
- Hydraulic/Transmission oils
- Two cycle oils
- Antifreeze
- Waste oil
- Propane
- Methyl hydrate
- Other materials potentially hazardous to the safety of personnel and the environment

NCGC's fuel inventory is provided in Appendix 3.

### **7.1 Risk Assessment**

NCGC recognizes that there are a number of risks associated with the use of hazardous materials. Table 2 summarizes risks associated with a number of products and systems developed to mitigate and minimize such risks.

Product	Risk	Risk mitigation
Products stored in drums and containers <ul style="list-style-type: none"> <li>• Diesel</li> <li>• Jet A/B</li> <li>• Gasoline</li> <li>• Oil</li> <li>• Waste fuel and oil</li> <li>• Antifreeze</li> <li>• Methyl hydrate</li> <li>• Greases</li> </ul>	Leaks or ruptures to containers or drums	<ul style="list-style-type: none"> <li>• Regular inspections</li> <li>• Keeping drums and containers stored within secondary containment</li> </ul>
Fuel cylinders <ul style="list-style-type: none"> <li>• Propane</li> <li>• Acetylene</li> </ul>	Leaks may occur at the valves	<ul style="list-style-type: none"> <li>• Regular inspection of cylinders to ensure valves are closed</li> <li>• Cylinders fastened securely</li> </ul>
Vehicles and equipment <ul style="list-style-type: none"> <li>• Wheels/tracked vehicles</li> <li>• Aircraft</li> <li>• Generators</li> <li>• Pumps</li> <li>• Drill equipment</li> </ul>	Leaking or dripping fuels and oils	<ul style="list-style-type: none"> <li>• Regular inspections for malfunctions and damage</li> <li>• Regular maintenance</li> <li>• Proper storage: Vehicles and heavy equipment stored within Quonset with impermeable liner</li> <li>• Designation controlled refueling stations</li> </ul>

Table 2 – Risk assessment

## 7.2 Hazardous Materials Handling

NCGC's *Fuel Management Plan* and *Comprehensive Waste Management Plan* provide detail on the handling, storage and transport of fuel and hazardous wastes at the CBP.

A brief summary of this is provided below:

### 7.2.1. Storage

- All fuel caches are located in natural depression a minimum of 31 metres from the high water mark of any water body and within secondary containment
- Diesel, jet fuel and gasoline are stored in metal 205 litre drums and organized in neat rows with bungs aligned horizontally within secondary containment.
- Tent fuel tanks/drums are located within secondary containment and covered with drum covers
- Bulk diesel is to be stored in up to 4 x 35,000 fuel tanks at Hayes Camp. These tanks have been manufactured in accordance with ULC standards S-601 and S-653. Fuel tanks will be installed in accordance with

applicable regulations and registered with Environment Canada prior to commissioning and filling.

- Small (up to 2000 litre) double walled bulk tanks are used to supply fuel to generators, and the incinerator.
- Propane is stored within conventional 100 lb tanks. Tanks are securely stored in upright position
- Oils, antifreeze, methyl hydrate and other chemicals are stored within original containers within secondary containment
- All products and caches are labelled appropriately. MSDS sheets are kept in a binder proximal to all caches.

#### **7.2.2. Petroleum products transfer**

- Fuel transfer is to be undertaken by trained personnel only
- Secondary containment is used in areas of fuel transfer
- Cigarette smoking, sparks, open flames and other sources of ignition are prohibited from refuelling sites.

#### **7.2.3. Secondary containment**

- Secondary containment that is exposed to the environment will be covered during periods of inactivity to prevent snow and water accumulating inside the containment vessel
- Should snow or water accumulate within secondary containment it will be inspected for the presence of any visible sheen of oil and grease and treated accordingly prior to discharge.

#### **7.2.4. Hazardous wastes**

- Hazardous wastes will be handled, stored and transported in accordance with relevant regulations and best practise guidelines.

### **7.3 Spill Kits**

Appropriately equipped spill kits will be located proximal to all fuel caches, fuel transfer stations and locations where hazardous materials are stored.

### **7.4 Signs and labelling**

All hazardous products and fuel caches will be labelled appropriately. MSDS sheets will be kept in a binder proximal to all caches and hazardous material.

### **7.5 Inspections**

Fuel caches, drums, drum bungs and secondary containment will be regularly inspected for leaks or damage and recorded on an appropriate form. Copies of inspections will be retained in the NCGC site office.

### **7.6 Training**

NCGC will ensure that all personnel handling fuel products and/or operating machinery will be familiar with NCGC's *Spill Prevention and Response Plan* and *Fuel Management Plan*.

## **8.0 SPILL RESPONSE ACTION PLAN**

Figure 2 outlines NCGC's basic response plan in the event of a spill or release of hazardous materials into the environment.

Once a spill is identified the basic steps are:

- a) Employee/contractor assesses personal safety risks, identifies the source of the spill, eliminates ignition sources and if safe to do so stops the flow of the spilled material (shut off valve, stand up drum etc)
- b) Employee/contractor notifies Environmental Coordinator (or designated person) immediately and requests assistance (if required).
- c) Environmental Coordinator (or designated person) attends the scene of the spill. NCGC internal spill report is completed
- d) If spill is above reportable thresholds or poses a threat to human or environmental health, Project Manager (or designated person) contacts the NT/NU 24 hour spill report line and a report is made.
- e) Environmental Coordinator (or designated person) implements appropriate cleanup and or remedial actions. Photographs are taken where possible during and after cleanup.
- f) NCGC Internal report and post cleanup report completed and provided to regulators/inspectors as requested.

## NCGC Action Plan in event of a spill

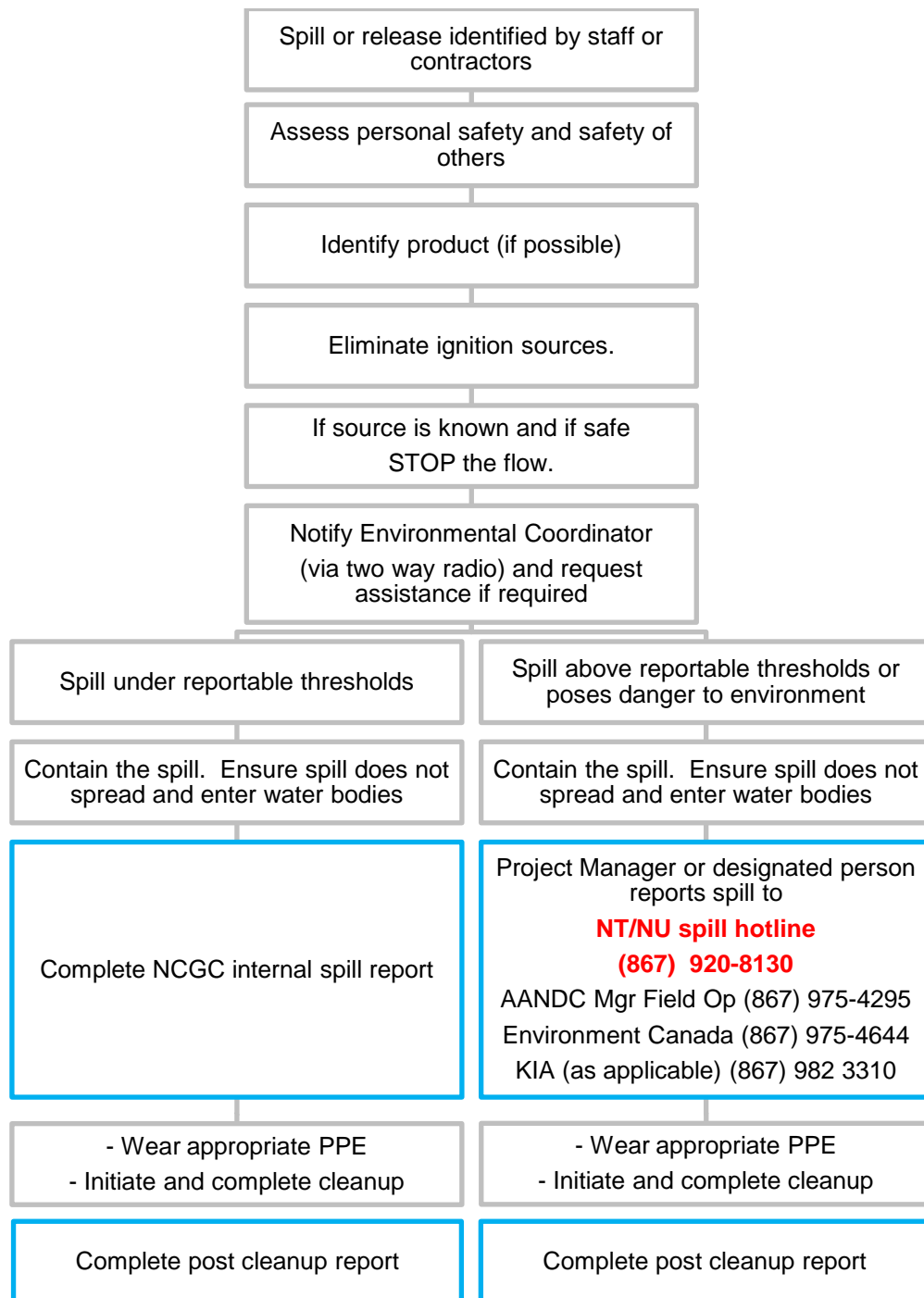


Figure 2 – NCGC Spill Response Plan

## 9.0 REPORTING GUIDELINES

NCGC will record and report all spills via internal spill reports. Employees/contractors are responsible to notify the Environmental Coordinator (or designated person). Environmental Coordinator (or designated person) will notify the Project Manager.

### 9.1 *External Reporting*

All spills will be reported immediately to the NT/NU spill report lines and regulatory bodies where the release of contaminants occurs in close proximity to a water body, sensitive environment or wildlife habitat or poses a threat to human health or exceeds the quantities described in table 3.

<b>TDG Class</b>	<b>Substance</b>	<b>Reportable Amount</b>
1	Explosives	Any amount
2.1	Compressed gas (flammable)	Any amount of gas from containers with a capacity greater than 100 litres
2.2	Compressed gas (non-corrosive, non-flammable)	Any amount of gas from containers with a capacity greater than 100 litres
2.3	Compressed gas (toxic)	Any amount
2.4	Compressed gas (corrosive)	Any amount
3	Flammable liquid	100 litres
4.1	Flammable solid	25 kg
4.2	Spontaneously combustible solids	25 kg
4.3	Water reactant solids	25 kg
5.1	Oxidizing substances	50 litres or 50 kg
5.2	Organic Peroxides	1 litre or 1 kg
6.1	Poisonous substances	5 litres or 5 kg
6.2	Infectious substances	Any amount
7	Radioactive	Any amount
8	Corrosive substances	5 litres or 5 kg
9.1	Miscellaneous products or substances excluding PCB mixtures	50 litres or 50 kg
9.1	PCB mixtures of 5 or more parts per million	0.5 litres or 0.5 kg
9.2	Environmentally hazardous	1 litres or 1 kg
9.3	Dangerous wastes	5 litres or 5 kg
None	Other contaminants	100 litres or 100 kg

Table 3 – Spill reporting thresholds

*(see schedule B of the Consolidation of Spill Contingency Planning and Reporting Regulations)*



## **9.2 Reporting contacts**

The following agencies will be notified for all reportable spills:

- 24 hour NT/NU spill line
  - Phone: (867) 920-8130
  - Fax: (867) 973-6924
  - Email: spills@gov.nt.ca
- AANDC Manager of Field Operations / Inspector
  - Phone: (867) 975-4295
  - Fax: (867) 979-6445
- Environment Canada
  - Phone: (867) 975-4644

On Kitikmeot Inuit Association owned land (ie Ingot and Crater camps, claims and leases) additional reports will be sent to:

- KIA Senior Lands Officer
  - Phone: (867) 982-3310
  - Fax: (867) 982 3311

## **10.0 SPILL CONTAINMENT AND CLEANUP STRATEGIES**

The following section outlines the strategies for the cleanup of spills for various products in various environments.

- Diesel fuel, hydraulic oil and lubricating oil
- Gasoline and Jet A/B Aviation Fuel
- Propane
- Methyl hydrate
- Other chemicals
- Sewage

### **10.1 Diesel Fuel, Hydraulic Oil and Lubricating oil**

- Take action only if safe to do so
- Eliminate ignition sources
- Stop the source flow if safe to do so
- Appropriate personal protective equipment (Latex or other protective gloves, goggles/safety glasses, masks or breathers, coveralls etc.) should be worn at all times

#### **On Land**

Build a containment berm using soil material or snow and place a plastic tarp at the foot of the berm for easy capture of the spill after all vapours have dissipated.

- Remove the spill by using absorbent pads or excavating the soil, gravel or snow.
- Remove spill splashed on vegetation using particulate absorbent material.
- Commence with the removal of any contaminate soil, gravel, or vegetation.
- Place contaminated material into drums for shipping off site.

#### **On Muskeg**

Do not deploy personnel and equipment on marsh or vegetation.

- Remove pooled oil with sorbent pads and/or skimmer.
- Flush with low pressure water to herd oil to collection point.
- Burn only in localized areas, e.g., trenches, piles or windrows.
- Do not burn if root systems can be damaged (low water table).
- Minimize damage caused by equipment and excavation.

#### **On Water**

Contain spill as close to release point as possible.

- Use containment boom to capture spill for recovery after vapours have dissipated.
- Use absorbent pads to capture small spills.
- Use skimmer for larger spills.

#### **On Ice and Snow**

Build a containment berm around spill using snow.

- Remove spill using absorbent pads or particulate sorbent material.
- The contaminated ice and snow must be scraped and shovelled into plastic buckets with lids, 205 litre drums, and/or polypropylene bags.

#### **Storage/Transfer**

- Contaminated materials should be segregated and stored in sealed, labelled containers
- Containers will be stored in accordance with NCGC *Waste Management Plan*

## **10.2 Gasoline and Jet A/B Aviation Fuel**

- Take action only if safe to do so
- Eliminate ignition sources
- Stop the source flow if safe to do so
- Appropriate personal protective equipment (Latex or other protective gloves, goggles/safety glasses, masks or breathers, coveralls etc.) should be worn at all times

### **On Land**

Build a containment berm using soil material or snow and place a plastic tarp at the foot of the berm for easy capture of the spill after all vapours have dissipated.

- Remove the spill by using absorbent pads or excavating the soil, gravel or snow
- Remove spill splashed on vegetation using particulate absorbent material
- Commence with the removal of any contaminate soil, gravel, or vegetation
- Place contaminated material into drums for shipping off site

### **On Muskeg**

Do not deploy personnel and equipment on marsh or vegetation.

- Remove pooled gasoline or Jet B with sorbent pads and/or skimmer
- Flush with low pressure water to herd oil to collection point
- On advice from regulatory agencies, burn only in localized areas, e.g., trenches, piles or windrows
- Do not burn if root systems can be damaged (low water table)
- Minimize damage caused by equipment and excavation

### **On Water**

- Contain spill as close to release point as possible
- Use containment boom to capture spill for recovery after vapours have dissipated
- Use absorbent pads to capture small spills
- Use skimmer for larger spills

### **On Ice and Snow**

- Build a containment berm around spill using snow
- Remove spill using absorbent pads or particulate sorbent material
- The contaminated ice and snow must be scraped and shovelled into plastic buckets with lids, 205 litre drums, and/or polypropylene bags

### **Storage/Transfer**

- Contaminated materials should be segregated and stored in sealed, labelled containers
- Containers will be stored in accordance with NCGC *Waste Management Plan*

### **10.3 Propane**

- Take action only if safe to do so
- Eliminate ignition sources
- Stop the source flow if safe to do so
- Appropriate personal protective equipment (Latex or other protective gloves, goggles/safety glasses, masks or breathers, coveralls etc.) should be worn at all times

#### **On Land**

- Do not attempt to contain the propane release

#### **On Water**

- Do not attempt to contain the propane release

#### **On Ice and Snow**

- Do not attempt to contain the propane release

#### **General**

- It is not possible to contain vapours when released
- Water spray can be used to knock down vapours if there is no chance of ignition
- Small fires can be extinguished with dry chemical or CO<sub>2</sub> extinguisher
- Personnel should withdraw immediately from area unless a small leak is stopped immediately after it has been detected
- If tanks are damaged, gas should be allowed to disperse and no recovery attempt should be made
- Personnel should avoid touching release point on containers since frost forms very rapidly
- Keep away from tank ends

#### **Storage /Transfer**

It is not possible to contain vapours when released.

## **10.4 Methyl Hydrate**

Methyl hydrate is classified as a flammable substance (TDG class 3) and a poisonous substance (TDG class 6.1) therefore is reportable for spills 5 litres or greater.

- Take action only if safe to do so
- Eliminate ignition sources (methyl hydrate is extremely flammable)
- Stop the source flow/move containers from spill area if safe to do so
- Appropriate personal protective equipment (chemical resistant, impervious gloves, splash goggles, air purifying or air fed respirator, coveralls) should be worn at all times

### **On Land**

#### Small spills

- Dilute with water and mop up, absorb with absorbent pads or absorb with dry absorbent material (sand, earth etc).
- Commence with the removal of any contaminated absorbent material using spark proof tools and explosion proof equipment
- Place contaminated material into drums for shipping offsite.

#### Large Spills

- Approach release from upwind
- Prevent entry into water courses using containment booms or by constructing earth berms
- Contain and collect spillage with non-combustible absorbent material (sand, earth, vermiculite or diatomaceous earth)
- Commence with the removal of any contaminated absorbent material using spark proof tools and explosion proof equipment
- Place contaminated material into drums for shipping offsite.

### **On Water**

- Methyl Hydrate is completely soluble in water. Use of methyl hydrate proximal to water bodies should be avoided where possible.

### **On Ice and Snow**

- Build a containment berm around spill using snow
- Remove spill using absorbent pads or non-combustible absorbent material
- The absorbent materials and contaminated ice and snow must be scraped and shovelled into plastic buckets or drums using spark proof tools and explosion proof equipment

### **Storage /Transfer**

- Contaminated materials should be segregated and stored in sealed labelled containers
- Contaminated absorbent material may pose the same hazards as the spilled material
- Containers will be stored in accordance with NCGC Waste Management Plan

### **10.5 Other Chemicals**

- Assess the MSDS sheets immediately and assess the hazards
- Take action only if safe to do so
- Appropriate personal protective equipment (Latex or other protective gloves, goggles/safety glasses, masks or breathers, coveralls etc.) should be worn at all times

Members of the emergency response team who might be susceptible in certain situations, (such as asthmatics, where fumes or airborne particles are evident), should be replaced with alternates.

Apply absorbents to soak up liquids.

- Place plastic sheeting over solid chemicals, such as dusts and powders, to prevent their disbursement by wind or investigation by birds or other mammals.
- Neutralize acids or caustics

#### **Storage/Transfer**

- Contaminated materials should be segregated and stored in sealed, labelled containers
- Containers will be stored in accordance with NCGC *Waste Management Plan*

## **10.6 Sewage**

In the event of sewage over flow or a burst pipeline within the Wastewater Treatment System or above ground transfer tanks, complete the following:

- Take action only if safe to do so
- Isolate power to the WWTS and associated pumps
- Stop the flow if safe to do so
- Ensure that wash-cars/washroom facilities are marked out of service
- Appropriate personal protective equipment (Latex or other protective gloves, goggles/safety glasses, masks or breathers, coveralls etc.) should be worn at all times

Sewage should be pumped, mopped or shovelled (as appropriate) into suitable containers for future reprocessing. An investigation should be conducted into the cause of the spill before the systems is reinitiated.

## **11.0 WASTE HANDLING AND DISPOSAL**

Contaminated soils, sand, gravel, vegetation, snow and water will be collected and stored in sealed 205 litre metal drums and labelled appropriately. This material will be handled as hazardous wastes in accordance with NCGC's *Comprehensive Waste Management Plan*. Drums containing contaminated materials will be stored within secondary containment until such time as they can be back hauled to an approved waste disposal facility. Waste manifests will accompany all shipments of hazardous waste.

## **12.0 RESPONSE AND SPILL EQUIPMENT**

### **12.1 *General equipment***

Heavy equipment (bulldozer, excavator, loader etc) used for camp and exploration support will be available for any on-site emergency spill response. Helicopters and fixed wing aircraft could also be available.

### **12.2 *Spill kits***

Spill kits will be located at the following locations (see attached map).

- Proximal to all fuel caches
- Proximal to all bulk fuel tanks
- Generators (Hayes Camp, Three Bluffs cache, Drill water system, satellite camps)
- Incinerator
- Diamond and RC drills
- Quonsets
- Workshop in camp
- Refuelling stations
- Hazardous waste storage facilities
- Reconnaissance caches and active drill sites



Spill kits comprise yellow or blue 200 litre containers which are clearly marked "Spill Kit"

These kits contain:

- Basic personal protective equipment including goggles and latex gloves
- Absorbent materials including socks, pillows, pads, and granular substances
- 50 x sonic bonded pads (17"x19"3/8')
- 3 socks (4'x3" diameter)
- 1 sphag sorb ¾ cu ft
- 1 x plug it sealing compound (500 ml)
- 2 pillows 18"x18"
- Large 36"x52" lettered plastic bags for containing and transferring contaminated sorbent materials
- Shovel
- Spill kit check list

Additional spill response equipment is located at Hayes camp within the hazardous materials sea can. This equipment includes:

- Absorbent pads/mats
- Absorbent pillows
- Absorbent socks
- Absorbent booms
- Oil gator absorbent

Spill kits and spill response supplies will be regularly inspected and additional ordered and replaced as necessary.

### **12.3 Fire Extinguishers**

Appropriate fire extinguishers will be located at all buildings, fuel caches, generators, incinerator, drill rigs and vehicles.

### **12.4 MSDS sheets**

MSDS sheets will be located proximal to all fuel caches, hazardous materials storage locations and in the drillers' shop and site office.

## **13.0 TRAINING**

### **13.1 *Site Orientation***

NCGC will ensure that all employees and contractors are familiar with the NCGC *Spill Prevention and Response Plan* as part of their initial site orientation at the CBP. The orientation will include:

- How and when to initiate spill response, identify risks, identify products
- Immediate steps to be taken in event of a spill
- Reporting requirements
- An overview of the location of fuel caches, hazardous materials
- A map of the location of spill kits
- Chain of command

### **13.2 *Emergency Response Team***

NCGC will establish an on-site Emergency Response Team (ERT) at the commencement of field operations each season. All members of the team will be familiar with the details of the *Spill Prevention and Response Plan*. In addition, training will ensure that each member of the ERT is familiar with:

- The location of all fuel caches and hazardous materials
- The location of spill response equipment and resources, personal protective equipment, and MSDS sheets
- Spill response methodologies
- Chain of command for spill response
- Emergency contacts list

### **13.3 *Formal Training***

Additional formal training may also include (where relevant):

- WHMIS training
- TDG training
- First Aid training

### **13.4 *Mock Exercises***

NCGC will ensure that at least one practise 'spill response' is completed each season to ensure that all personnel are familiar with Spill Response protocols.

### **13.5 *Records***

NCGC will maintain records of all training completed by personnel, ERT members and mock spills.

## 14.0 EMERGENCY CONTACTS

NORTH COUNTRY GOLD CORP			
Simeon Robinson	Project Manager	Phone	(604) 790 8811
Site Office <sup>†</sup>	Camp Manager (24 hrs)	Phone	* TBA *
Michael Henrichsen	Chief Operating Officer	Phone	(604) 653 6730
Peter Rees	Chief Financial Officer	Phone	(778) 837 9110
TERRITORIAL / FEDERAL ENVIRONMENTAL CONTACTS			
24-Hour NU/NT Spill Line		Phone	(867) 920-8130
		Fax	(867) 973-6924
		Email	spills@gov.nt.ca
AANDC Manager of Field Ops		Phone	(867) 975-4295
		Fax	(867) 979-6445
Government of Nunavut (Department of Environment)	Pollution / Air quality	Phone	(867) 975-7748
		Fax	(867) 979-5981
Kitikmeot Inuit Association	Curtis Didham	Phone	(867) 975-4644
Fisheries and Oceans (DFO)	Senior Lands Officer	Phone	(867) 982-3310
		Fax	(867) 982 3311
Fisheries and Oceans (DFO)		Phone	(867) 979-8007
Nunavut Water Board	Phyllis Beaulieu	Phone	(867) 360-6338
		Fax	(867) 360-6369
OTHER CONTACTS			
Sanitherm (Wastewater Process)	Philip Tam	Phone	(604) 529-2155
Sanitherm (Clean Harbors OPS)	Cid McLean	Phone	(780) 960-6406
Health Centre Repulse Bay		Phone	(867) 462-9916
Stanton Regional Hospital	Yellowknife	Phone	(867) 920-4111
Poison Control Centre		Phone	1-800-567-8911
Yellowknife Fire Department		Phone	(867) 873-2222
WSCC	24 hr hotline for injuries	Phone	1-800-661-0792
WSCC Chief inspector of mines	Peter Bengts	Phone	(867) 669-4412
WSCC Inspector	Martin Van Rooy	Phone	(867) 979-8527
RCMP Repulse Bay	Emergency	Phone	(867) 462-1111
	Non-emergency	Phone	(867) 462-0123
Discovery Mining Services		Phone	(867) 920-4111
Ookpik Aviation (Baker Lake)	24 hour number	Phone	(867) 793-4720
Ken Borek Air (Rankin Inlet)		Phone	(867) 645-2535
Custom Helicopters (Rankin Inlet)	Residence (24 hr number)	Phone	(867) 645-3885
Great Slave Helicopters		Phone	(867) 873-2071

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<sup>1</sup> The name and contact details for the site office will be provided each year once communications and a phone number have been established

## **15.0 APPLICABLE LEGISLATION AND GUIDELINES**

Acts, regulations, legislation and guidelines applicable to the storage, handling and transport of fuel and spill contingency planning are presented in:

### **15.1 *Federal***

- National Fire Code of Canada
- Canadian Environmental Protection Act
- Fisheries Act
- Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations
- Spill Contingency and Reporting Regulations
- CCME Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products
- Transportation of Dangerous Goods Act
- The Workplace Hazardous Materials Information Systems (WHMIS)

### **15.2 *Territorial***

- Fire Prevention Act
- Nunavut Environmental Protection Act
- Nunavut Waters Act and Regulations
- Nunavut Water and Surface Rights Tribunal Act
- Mines Health and Safety Regulations (Nunavut)
- The NWT and Nunavut Safety Act
- Transportation of Dangerous Goods Act
- Guidelines for Spill Contingency Planning (INAC)
- Draft recommended best practices for the storage and handling of petroleum and allied petroleum products on Federal Crown land in Nunavut

## **16.0 REVIEW**

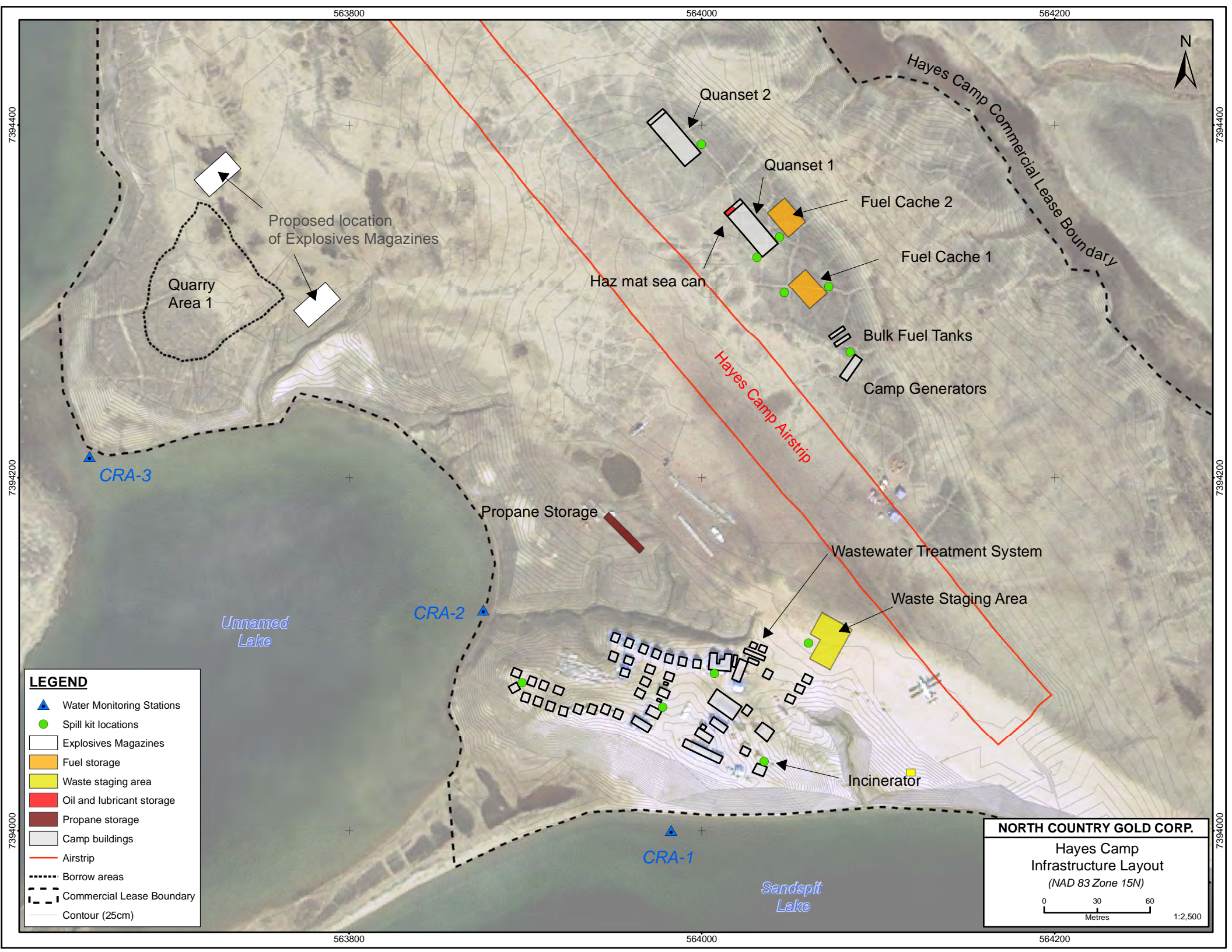
NCGC will conduct annual reviews of this document to address changes in technology and operational practices. Changes will be implemented upon approval from the NWB. Contact details and information will be updated as required and distributed accordingly.

## ***APPENDIX 1***

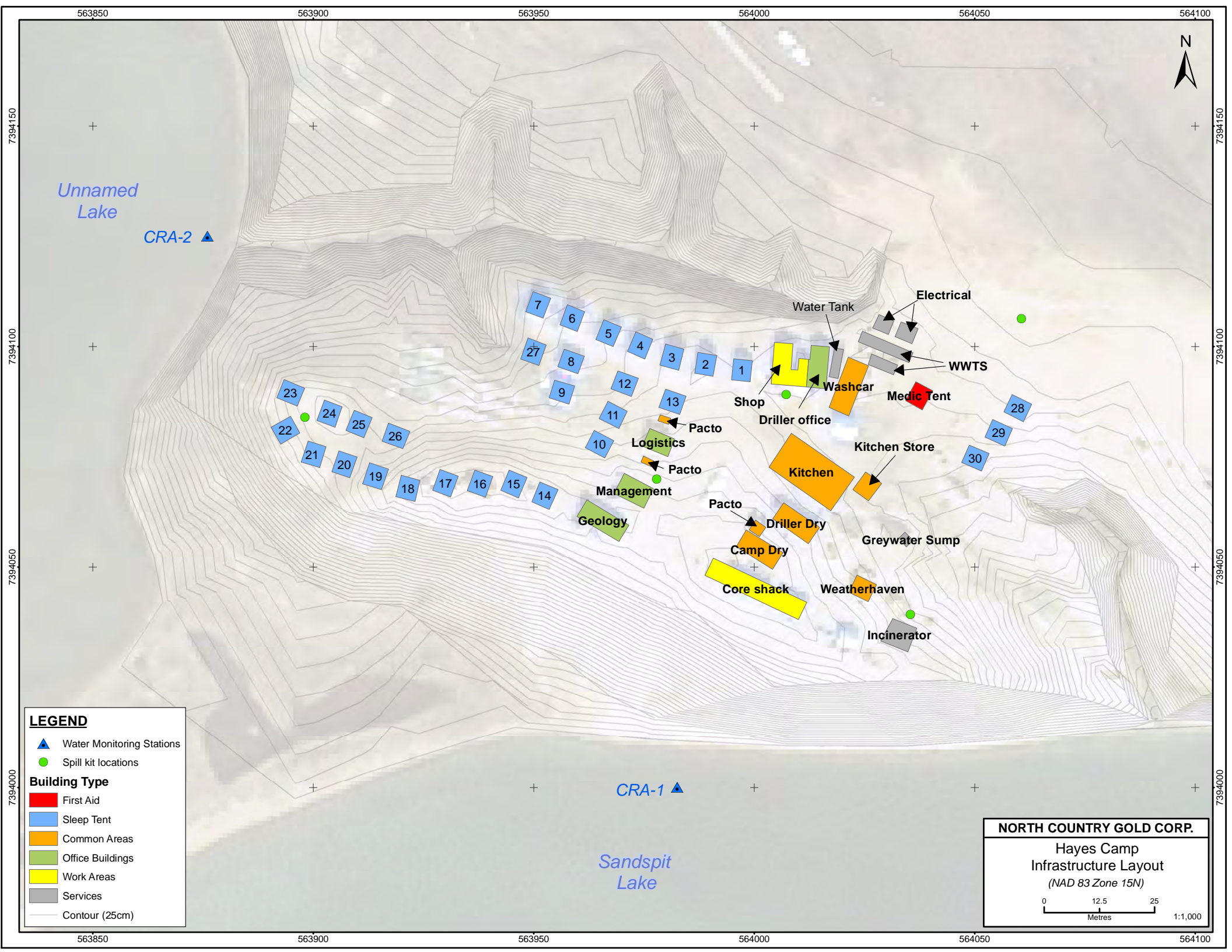
### NCGC Camp Layouts

- Hayes Camp
- Bullion Camp
- Ingot Camp
- Three Bluffs drilling area

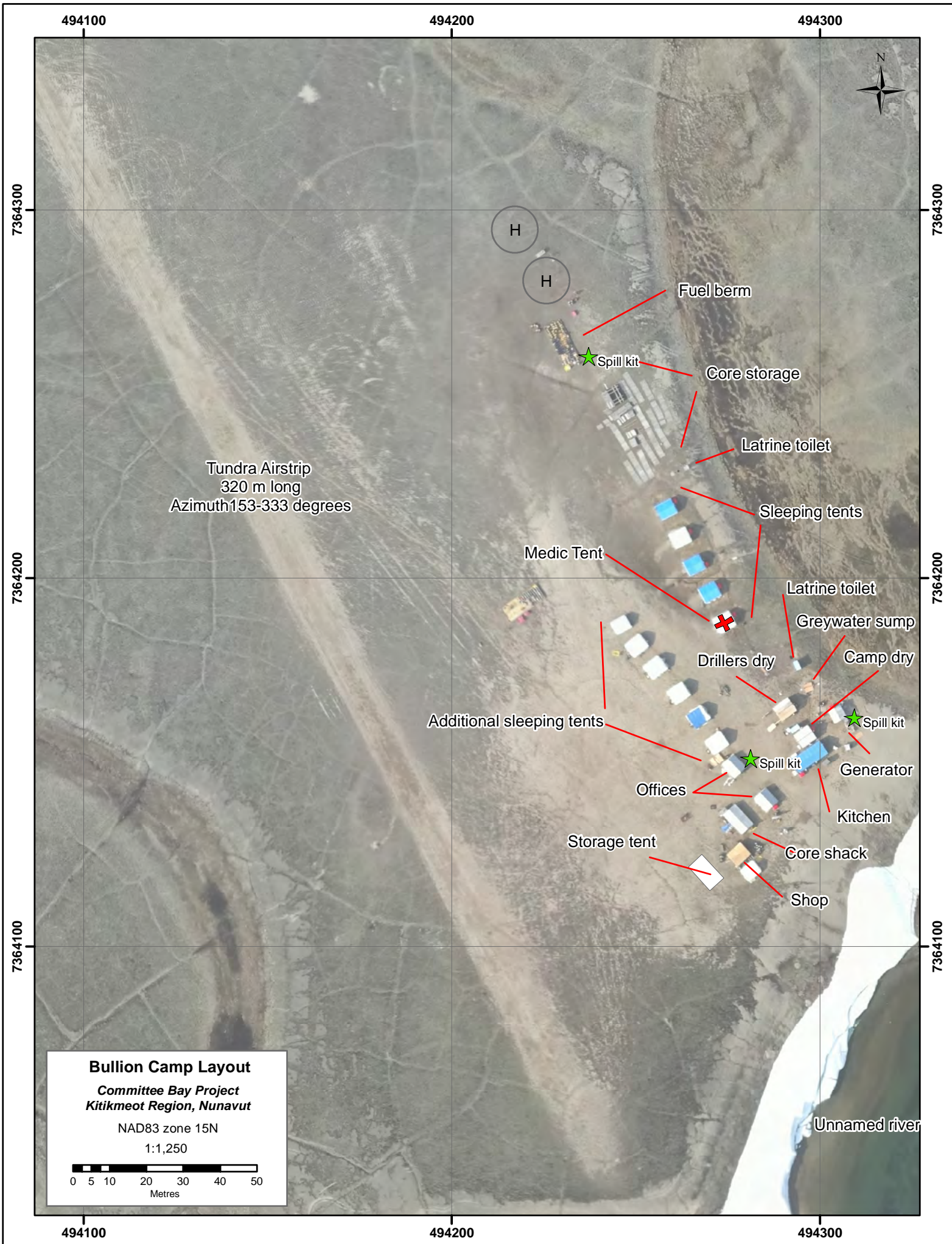




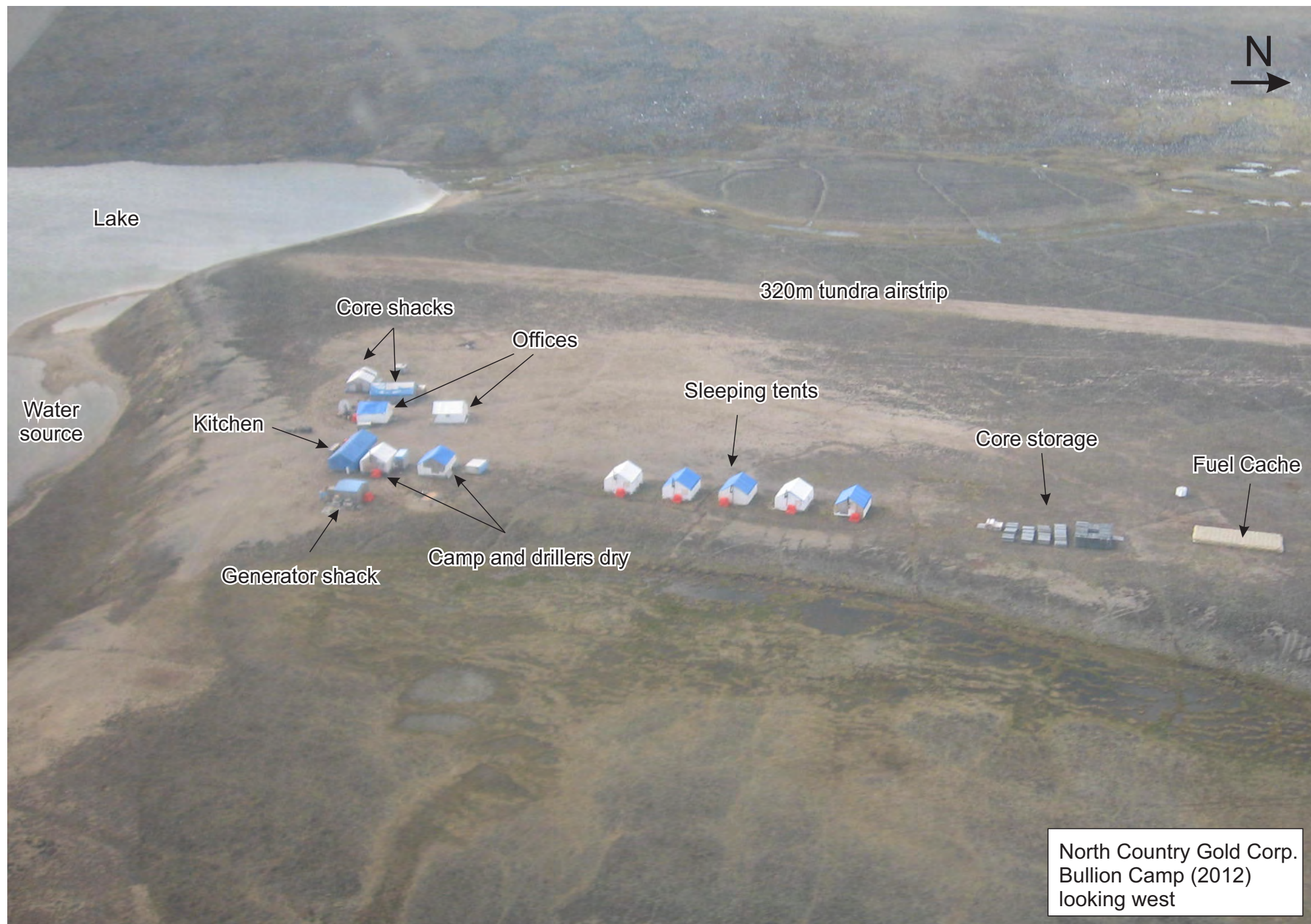




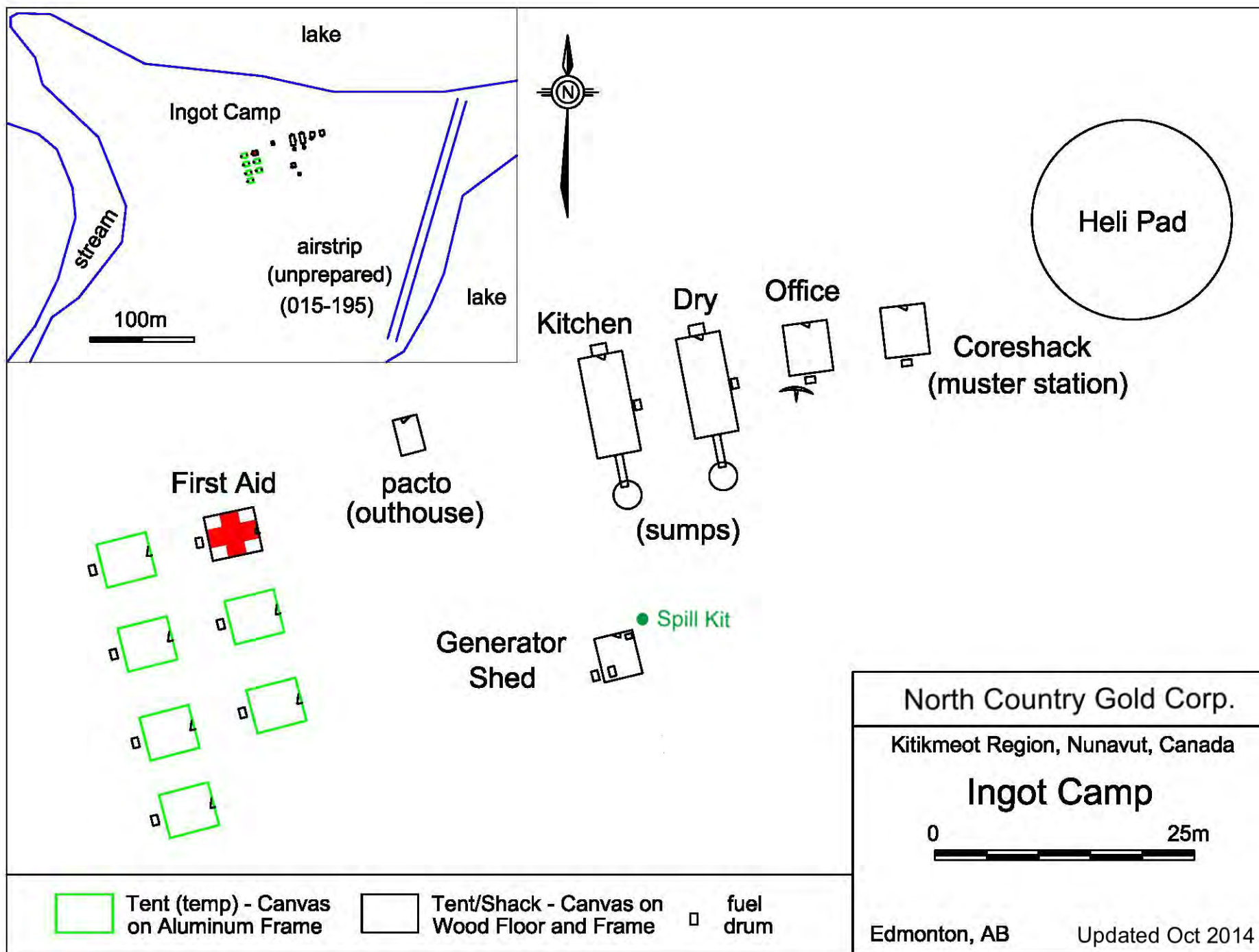




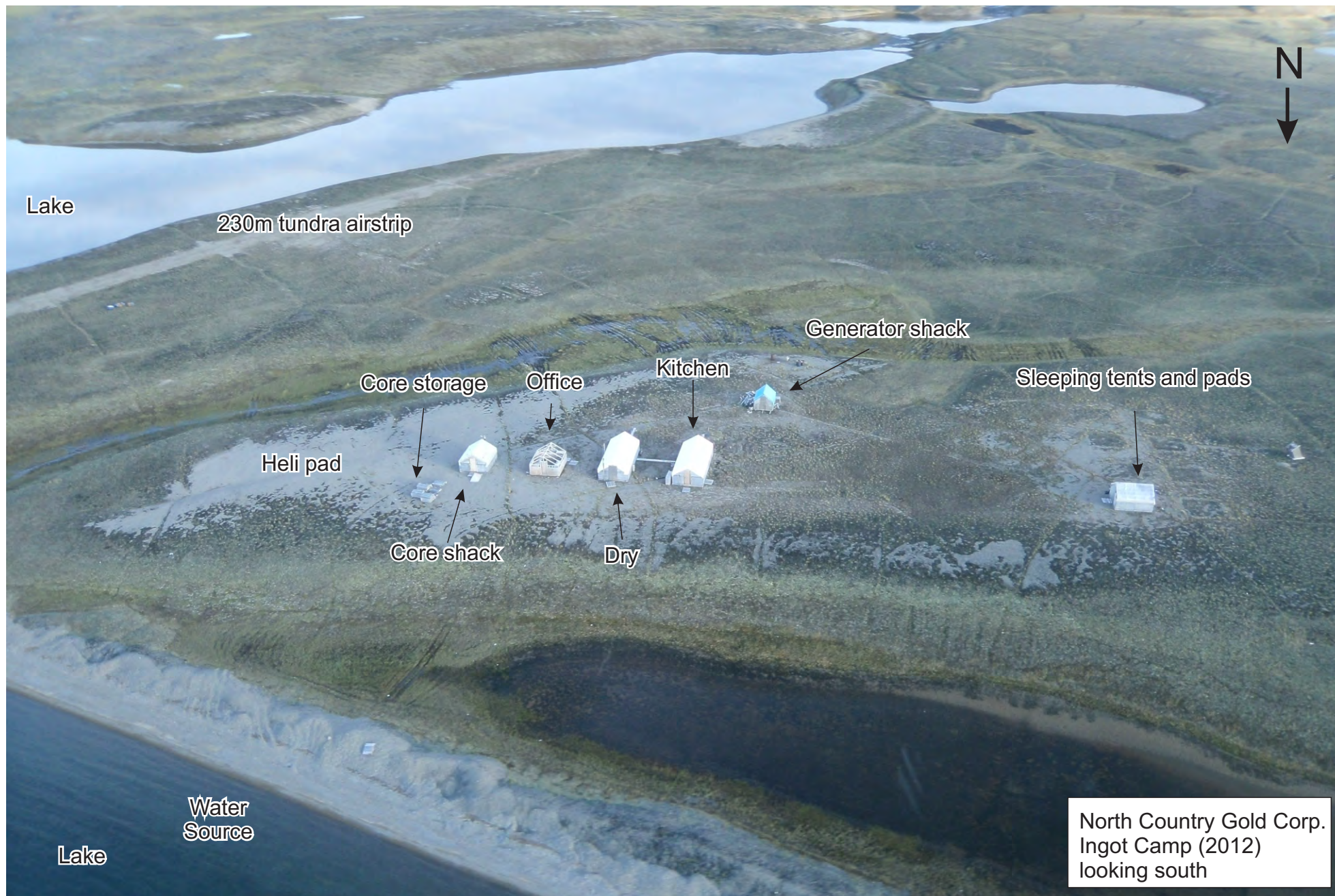




North Country Gold Corp.  
Bullion Camp (2012)  
looking west







Lake

230m tundra airstrip

N  
↓

Generator shack

Core storage

Office

Kitchen

Sleeping tents and pads

Heli pad

Core shack

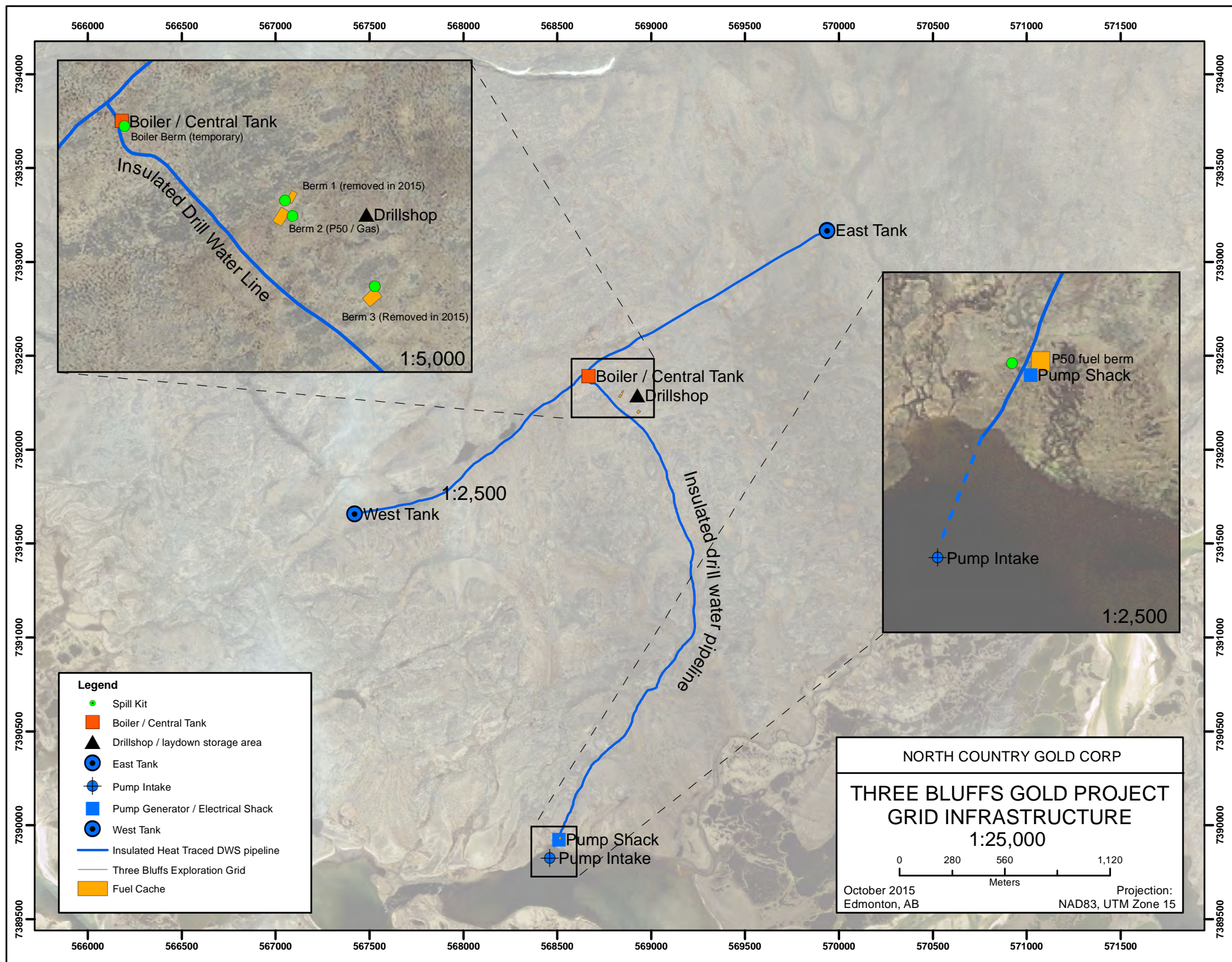
Dry

Water  
Source

Lake

North Country Gold Corp.  
Ingot Camp (2012)  
looking south





## ***APPENDIX 2***

Hayes Camp – Buildings and equipment

**Table 1 – Structures and Infrastructure currently permitted, approved and onsite**

Quantity	Make	Description	Fuel Type
2	All Weather Shelters	Quonset (100'x40')	N/A
1	MTH Housing	Kitchen Unit (10'x8'x40')	Propane
1	MTH Housing	Washcar Unit (10'x8'x40')	N/A
1	MTH Housing	Washcar/Open Room Unit (10'x8'x40')	N/A
30	Custom built	12'x14' sleeping tent	Diesel
1	Custom built	12'x14' medical tent	Diesel
1	Custom built	12'x14' food storage tent	Diesel
1	Custom built	12'x24' Management office	Diesel
1	Custom built	12'x28' Geology office	Diesel
1	Custom built	12'x14' Logistics office	Diesel
1	Custom built	12'x28' Camp workshop	Diesel
1	Custom built	12'x28' Camp dry	Diesel
1	Custom built	12'x28' Drillers dry	Diesel
1	Custom built	12'x40' Kitchen/dining	Diesel
1	Custom built	12'x60' Core processing tent	Diesel
1	Weatherhaven	12'x14' Storage weatherhaven	N/A
4	Washroom	4'x4' Pacto unit	N/A
4	Sea container	8'x8'x20' sea container	N/A
1	Sanitherm	Internal Membrane Waste Water Treatment System	N/A
2	Enviro	35k litre double walled fuel tanks	Diesel
2	CAT	XQ 230 230k Generators	Diesel
1	Ketek/Westland	CY2050-CA incinerator	Diesel
1	Tidy Tank	500 litre double walled fuel tank - Incinerator	Diesel

**Table 2 – Structures and Infrastructure currently permitted, approved but yet to be moved to site**

Quantity	Make	Description	Fuel Type
2	Enviro	Skid mounted 35k litre double walled fuel tanks	Diesel
2		Explosive Magazines (Sea Cans)	

**Table 3 – Vehicles and Heavy Equipment currently permitted, approved and onsite**

Quantity	Make	Description	Fuel Type
1	Caterpillar	140H Grader	Diesel
1	Caterpillar	289C Skid Steer Loader	Diesel
1	Caterpillar	320 DL RR Excavator	Diesel
1	Caterpillar	730 Articulating Dump Truck	Diesel
1	Caterpillar	CS563E Packer	Diesel
1	Caterpillar	D6NLGP Dozer	Diesel
1	Caterpillar	D6R XL PAT Dozer	Diesel
1	Caterpillar	IT 24 F Loader	Diesel
1	John Deere	640D Skidder	Diesel
1	Westpro	PCU1030 Portable Crushing Unit	Diesel
1	Dodge	Ram 4x4 pickup	Diesel
1	Ford	F450 4x4 Service Truck	Diesel
1	GMC	Sierra 4x4 pickup	Gasoline
2	Kubota	RTV1140P 4x4 ATV	Diesel
1	All Track AT80HD	All track utility vehicle	Diesel
2	Hagglund BV206	Tracked Personnel carrier	Diesel
1	Magnum Pro	MLT5080 Lighting Plant	Diesel
1	Ingersoll Rand	Lighting Plant	Diesel
8	Polaris	Polaris LXT 136 Snowmobile	Gasoline
2	Skidoo	GTSP 55 Snow Machine	Gasoline
2	Skidoo	Skandic Wide Track 550 Snow machine	Gasoline
5	Yamaha	Bravo Snow Machine	Gasoline

**Table 4 – Large Equipment currently permitted and approved but yet to be moved to site**

Quantity	Make	Description	Fuel Type
1		Screening Plant	
1		Fuel Services Truck	
1	Caterpillar	730 Articulating Dump Truck	Diesel
1		Blasting Mini Rig	

**Table 5 – Diamond and RC Drilling equipment currently permitted, approved and onsite.**

Quantity	Make	Description	Fuel Type
5	Irving Machine	Drill shack	N/A
5	Irving Machine	Rod Sloop	N/A
5	Irving Machine	Pump Shack	N/A
5	Zinex	A5 B20 Core Drill heli/skid shack portable	Diesel
	Miscellaneous	Drill spares/pumps/parts	
2	CAT	XQ80 80k Generators	Diesel
2	CAT	XQ60 60k Generators	Diesel
2	Enviro	2000 litre Double walled fuel tanks	Diesel
1	Drill water system	Pumping station, insulated pipeline, water storage tanks, boiler	Diesel

**Table 6 – Diamond and RC Drilling Equipment currently permitted and approved but yet to be moved to site.**

Quantity	Make	Description	Fuel Type
2	Zinex	A5 B20 Core Drill and pump shacks	Diesel
2	Northspan	Super Hornet Reverse Circulation drills	Diesel

**Table 7 – Air Transport Equipment**

Type	Make	Description	Fuel
Fixed Wing	de Havilland	DHC-6 Turbo Otter	Diesel/Jet turbine
Fixed Wing	de Havilland	DHC-6 Twin Otter	Diesel/Jet turbine
Fixed Wing	de Havilland	DHC-5 Buffalo or similar	Jet turbine
Fixed Wing	Lockheed	C130 Hercules	Jet turbine
Fixed Wing	Boeing	737-200	Jet turbine
Fixed Wing	Convair	580	Jet turbine
Helicopter	Bell	206LR/L3/L4 H	Jet turbine
Helicopter	Airstar	B2	Jet turbine



# Spill Report

To be completed for every spill of oil, gasoline, chemicals and other hazardous materials



*Note: All spills regardless of quantity are to be reported immediately to the NT/NU spill line where: release is near a water body; sensitive environment; wildlife habitat; poses threat to human health or above is reportable thresholds (see over)*

Report Date: \_\_\_\_\_

Report Time: \_\_\_\_\_

Spill Date: \_\_\_\_\_

Spill Time: \_\_\_\_\_

Location of Spill: *(Include description and coordinates)*

\_\_\_\_\_  
\_\_\_\_\_

Responsible Party:

\_\_\_\_\_

Product Spilled:

Quantity: *(Litres)*

\_\_\_\_\_

\_\_\_\_\_

Spill Source:

\_\_\_\_\_

Spill Cause:

\_\_\_\_\_

Area of Contamination: *(m x m x depth)*

\_\_\_\_\_

\_\_\_\_\_

Did any contaminant enter a water source?

Yes ☐

No ☐

If yes, explain where

\_\_\_\_\_

Immediate actions taken to address spill:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Additional Information:

\_\_\_\_\_

\_\_\_\_\_

Reported by: \_\_\_\_\_

Date: \_\_\_\_\_

# Remediation Plan

Oil, gasoline, chemicals and other hazardous materials



Material Spilled: \_\_\_\_\_

Remediation action plan:

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Date remediation to be completed by: \_\_\_\_\_

Remediation completed by whom?: \_\_\_\_\_

Inspected by: \_\_\_\_\_

Approved: Yes ☐  
No ☐

Comments:

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## *NU/NT Spill Line - Reportable quantities summary table*

TDG Class	Description	Amount spilled
1	Explosives	Any amount
2.1	Flammable gas	Any amount from container with capacity >100 litres
3.1, 3.2, 3.3	Flammable liquid	100 litres
Other		See NCG Spill prevention and contingency plan

NT/NU Spill Line

Phone 1-867-920-8130

Fax 1-897-873-6924

email [spills@gov.nt.ca](mailto:spills@gov.nt.ca)

## ***APPENDIX 5***

NT/NU Spill report sheet



# NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

EMAIL: [spills@gov.nt.ca](mailto:spills@gov.nt.ca)

## Instructions for Completing the NT-NU Spill Report Form

This form can be filled out electronically and e-mailed as an attachment to [spills@gov.nt.ca](mailto:spills@gov.nt.ca). Until further notice, please verify receipt of e-mail transmissions with a follow-up telephone call to the spill line. Forms can also be printed and faxed to the spill line at 867-873-6924. Spills can still be phoned in by calling collect at 867-920-8130.

<b>A. Report Date/Time</b>	The actual date and time that the spill was reported to the spill line. If the spill is phoned in, the Spill Line will fill this out. <b>Please do not fill in the Report Number:</b> the spill line will assign a number after the spill is reported.
<b>B. Occurrence Date/Time</b>	Indicate, to the best of your knowledge, the exact date and time that the spill occurred. Not to be confused with the report date and time (see above).
<b>C. Land Use Permit Number /Water Licence Number</b>	This only needs to be filled in if the activity has been licenced by the Nunavut Water Board and/or if a Land Use Permit has been issued. Applies primarily to mines and mineral exploration sites.
<b>D. Geographic Place Name</b>	In most cases, this will be the name of the city or town in which the spill occurred. For remote locations – outside of human habitations – identify the most prominent geographic feature, such as a lake or mountain and/or the distance and direction from the nearest population center. <b>You must include the geographic coordinates</b> (Refer to Section E).
<b>E. Geographic Coordinates</b>	This only needs to be filled out if the spill occurred outside of an established community such as a mine site. Please note that the location should be stated in degrees, minutes and seconds of Latitude and Longitude.
<b>F. Responsible Party Or Vessel Name</b>	This is the person who was in management/control/ownership of the substance at the time that it was spilled. In the case of a spill from a ship/vessel, include the name of the ship/vessel. Please include full address, telephone number and e-mail. Use box K if there is insufficient space. <b>Please note that, the owner of the spilled substance is ultimately responsible for any spills of that substance, regardless of who may have actually caused the spill.</b>
<b>G. Contractor involved?</b>	Were there any other parties/contractors involved? An example would be a construction company who is undertaking work on behalf of the owner of the spilled substance and who may have contributed to, or directly caused the spill and/or is responding to the spill.
<b>H. Product Spilled</b>	Identify the product spilled; most commonly, it is gasoline, diesel fuel or sewage. For other substances, avoid trade names. Wherever possible, use the chemical name of the substance and further, identify the product using the four digit UN number (eg: UN1203 for gasoline; UN1202 for diesel fuel; UN1863 for Jet A & B)
<b>I. Spill Source</b>	Identify the source of the spill: truck, ship, home heating fuel tank and, if known, the cause (eg: fuel tank overfill, leaking tank; ship ran aground; traffic accident, vandalism, storm, etc.). Provide an estimate of the extent of the contaminated/impacted area (eg: 10 m <sup>2</sup> )
<b>J. Factors Affecting Spill</b>	Any factors which might make it difficult to clean up the spill: rough terrain, bad weather, remote location, lack of equipment. Do you require advice and/or assistance with the cleanup operation? Identify any hazards to persons, property or environment: for example, a gasoline spill beside a daycare centre would pose a safety hazard to children. Use box K if there is insufficient space.
<b>K. Additional Information</b>	Provide any additional, pertinent details about the spill, such as any peculiar/unique hazards associated with the spilled material. State what action is being taken towards cleaning up the spill; disposal of spilled material; notification of affected parties. If necessary, append additional sheets to the spill report. Number the pages in the same format found in the lower right hand corner of the spill form: eg. "Page 1 of 2", "Page 2 of 2" etc. <b>Please number the pages to ensure that recipients can be certain that they received all pertinent documents.</b> If only the spill report form was filled out, number the form as "Page 1 of 1".
<b>L. Reported to Spill Line by</b>	Include your full name, employer, contact number and the location from which you are reporting the spill. Use box K if there is insufficient space.
<b>M. Alternate Contact</b>	Identify any alternate contacts. This information assists regulatory agencies to obtain additional information if they cannot reach the individual who reported the spill.
<b>N. Report Line Use Only</b>	<b>Leave Blank.</b> This box is for the <b>Spill Line's use only.</b>

## ***APPENDIX 6***

NCGC Inspection checklists

# Fuel Inspection Report



Inspection completed by: \_\_\_\_\_ Signed: \_\_\_\_\_

Date: \_\_\_\_\_

**\*\*Any leaks/spills to be reported and rectified immediately\*\***

	Fuel type stored	Drums (Evidence of Leaks) <i>If yes, where?</i>	Drums (Evidence of Corrosion) <i>If yes, where?</i>	All fuel/oil in secondary containment	Condition of secondary containment <i>(Rips, holes, water etc.)</i>	Spill Kit/ Fire Extinguisher present	Appropriate Signage present	MSDS Sheets present	Comments
<b>HAYES CAMP</b>									
Berm #1									
Berm #2									
Berm #3									
Berm #4									
Fueling Station									
Quanset #1									
Quanset #2									
Bulk Tank									
Power Plant (Generators)									
General tent inspection									

<b>DRILL WATER SYSTEM</b>									
Pump									
Boiler									
East Tank									

<b>DRILL GRID</b>									
Berm #1									
Berm #2									
Berm #3									

*Additional Comments:* \_\_\_\_\_

# Fuel Inspection Report



**\*\*Any leaks/spills to be reported and rectified immediately\*\***

Inspection completed by: \_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

	Fuel type stored	Drums (Evidence of Leaks) <i>If yes, where?</i>	Drums (Evidence of Corrosion) <i>If yes, where?</i>	All fuel/oil in secondary containment	Condition of secondary containment <i>(Rips, holes, water etc.)</i>	Spill Kit/ Fire Extinguisher present	Appropriate Signage present	MSDS Sheets present	Comments
<b>RANKIN INLET</b>									
Berm #1									

*Additional Comments:*

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## ***APPENDIX 7***

### **MSDS Sheets**

*(please see attached digital file for MSDS sheets)*