EYES: For direct contact, immediately flush eyes with plenty of water, holding

eyelids apart, for 15 minutes. If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Get medical attention if

irritation or pain persists.

SKIN: Remove contaminated clothing and shoes. Wash skin thoroughly with

soap and water. Get medical attention if irritation or pain persists.

INGESTION: Im (SWALLOWING) sp

Immediately get medical attention. Do NOT induce vomiting. If

spontaneous vomiting occurs, keep head below hips to avoid breathing the

product into the lungs.

NOTE TO PHYSICIANS: No specific antidote available. Treat symptomatically and supportively. Call medical emergency telephone number (see **SECTION 1**) for additional

information.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 383°F (195°C) (minimum) Cleveland Open Cup

FLAMMABLE LIMITS IN AIR: LOWER: 1 VOL% (based on similar materials)

UPPER: 10 VOL% (based on similar materials)

AUTOIGNITION

TEMPERATURE: 750°F (399°C) (approximately) (based on similar materials)

HAZARDOUS COMBUSTION

PRODUCTS:

Decomposition and combustion materials may be toxic.
Burning may produce aldehydes, hydrogen sulfide, alkyl

mercaptans, sulfur oxides, calcium oxides, and carbon

monoxide.

CONDITIONS OF

Heat, sparks, or flame. Product may burn, but

FLAMMABILITY: does not ignite readily.

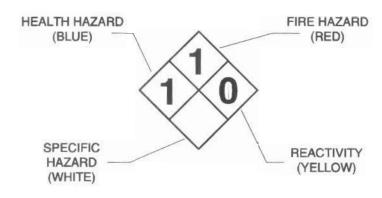
EXTINGUISHING MEDIA: Carbon dioxide, regular foam, dry chemical, water spray, or

water fog.

NFPA 704 HAZARD IDENTIFICATION:

This information is intended solely for the use of individuals

trained in this system.



FIRE FIGHTING Keep storage containers cool with water spray.

INSTRUCTIONS: Positive-pressure, self-contained breathing apparatus (SCBA)

and structural firefighters' protective clothing may provide

limited protection.

FIRE AND Heated containers may rupture. "Empty" containers may

EXPLOSION HAZARDS: retain residue and can be dangerous. Not sensitive to

mechanical impact or static discharge.

EMERGENCY RESPONSE 171

GUIDE NUMBER: Reference North American Emergency Response Guidebook

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Ventilate area and avoid breathing vapor or mist. Contain away from surface waters and sewers. Contain as a liquid for possible recovery or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal.

Additionally, for large spills: isolate hazard area. Keep unnecessary and unprotected personnel from entering. Dike far ahead of liquid spill for collection and later disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, or flame. Use clean tools. Do not

breathe vapor or mist. Use in a well ventilated area. Avoid contact

with eyes, skin, clothing, and shoes.

SHIPPING AND

STORING:

Keep container tightly closed when not in use and during transport. Store container in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind. Keep containers away from heat, flame, sparks, or other sources of ignition. Empty product containers may

retain product residue and can be dangerous.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water

after handling and before eating, drinking, or using tobacco products. Clean contaminated clothing, shoes, and protective

equipment before reuse.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:

Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limits. A self-contained breathing apparatus (SCBA) and full protective

equipment are required for fire emergencies. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in

Canada with CSA Standard Z94.4-M1982.

EYE

Where eye contact is likely, wear safety glasses; contact lens

PROTECTION: use is not recommended.

SKIN

PROTECTION:

Where skin contact is likely, wear neoprene, nitrile, or equivalent

protective gloves; use of natural rubber or equivalent gloves is not

recommended.

OTHER Where spills and splashes are likely, wear appropriate

PROTECTIVE chemical-resistant apron or other protective clothing. Clean water should be available in work areas for flushing the eyes and skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE,

APPEARANCE, AND ODOR: Liquid, amber, petroleum odor.

ODOR THRESHOLD: Not available.

SPECIFIC GRAVITY: 0.88 (water = 1) (approximately)

DENSITY: 7.3 lb/US gal (880 g/l) (approximately)

VAPOR DENSITY: greater than 10 (air = 1) (based on similar materials)

VAPOR PRESSURE: less than 0.1 mm Hg at 68°F (20°C)

(based on similar materials)

BOILING POINT: 420°F (220°C) (minimum)

FREEZING/MELTING POINT: Not available [pour point 0°F (-18°C) (maximum)].

pH: Not applicable.

EVAPORATION RATE: 0.001 (ethyl ether = 1) (based on similar materials)

SOLUBILITY IN WATER: Insoluble.

MOLECULAR WEIGHT: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures.

Avoid heat, sparks, or flame.

INCOMPATIBILITY: Avoid oxidizing agents and/or reactive halogens.

REACTIVITY: Polymerization is not known to occur under normal

temperatures and pressures. Not reactive with water.

HAZARDOUS DECOMPOSITION

PRODUCTS:

None under normal temperatures and pressures. See also **SECTION 5**: **HAZARDOUS COMBUSTION**

PRODUCTS.

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION: Based on best current information, there is no known human

sensitization associated with this product.

CARCINOGENICITY: IARC classifies chemicals by their carcinogenic risk, including

agents that are known, probable, or possible carcinogens. NTP classifies chemicals as either known carcinogens, or for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. ACGIH recognizes several categories of carcinogens, including confirmed

human carcinogens and suspected human carcinogens.

No animal skin carcinogenicity tests of these materials have been conducted. Neither IARC, NTP, ACGIH, nor OSHA have classified

these materials as to their carcinogenic risk.

Also see SECTION 15: CALIFORNIA.

REPRODUCTIVE

TOXICITY:

Based on best current information, there is no known reproductive

toxicity associated with this product.

Also see SECTION 15: CALIFORNIA.

TERATOGENICITY: Based on best current information, there is no known teratogenicity

associated with this product.

MUTAGENICITY: Experimental evidence suggests that this product does not cause

mutagenesis.

TOXICOLOGICALLY

SYNERGISTIC PRODUCT(S):

Based on best current information, there are no known toxicologically synergistic products associated with this

product.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Not available.

OCTANOL/WATER

PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC

100 WT%; 7.3 lb/US gal; 880 g/l (approximately)

COMPOUNDS: Photochemically reactive as per 40 CFR Part 51.100(s).

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with federal, state, provincial, and local

> regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding recycling or proper disposal.

USEPA WASTE

Not regulated.

This product, if discarded, is not expected to be a CODE(S):

characteristic waste. If recycled in the USA, it must be managed in

accordance with 40 CFR Part 279. Processing, use, or

contamination may make this information inappropriate, inaccurate,

or incomplete.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated.

TDG: Not regulated.

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

SARA SECTIONS 311 AND 312:

This product poses the following health hazards as

defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and

Reauthorization Act of 1986:

Immediate (Acute) Health Hazard Delayed (Chronic) Health Hazard

SARA SECTION 313: Asterisked component in SECTION 2 is subject to the requirements

of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372, under the Zinc

Compounds category.

TSCA: All the components of this product are listed on, or are exempted

from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product contains arsenic, CAS 7440-38-2; benzene,

CAS 71-43-2; cadmium, CAS 7440-43-9; and lead,

CAS 7439-92-1 from additives. This product may contain detectable

amounts of benzo(a)anthracene, CAS 56-55-3;

benzo(k)fluoranthene, CAS 207-08-9; benzo(a)pyrene,

CAS 50-32-8; benzo(b)fluoranthene, CAS 205-99-2; chrysene, CAS 218-01-9; dibenz(a,h)anthracene, CAS 53-70-3; and

indeno(1,2,3-cd)pyrene, CAS 193-39-5. These materials are listed by the State of California as known carcinogens. Our testing of this product indicates that these materials are not always detectable.

This product contains a detectable amount of lead, CAS 7439-92-1, from additives. This material is listed by the State of California as

known to cause reproductive toxicity.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS: Not regulated.

CANADIAN

ENVIRONMENTAL All the components of this product are listed on, or

PROTECTION ACT

(CEPA): Domestic Substances List (DSL).

are exempted from the requirement to be listed on, the Canadian

SECTION 16. OTHER INFORMATION

REVISION INFORMATION: SECTION 1: PRODUCT NAME, included grades

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product as supplied to the user.



NORTRACE 20-20-20 SOLUBLE FERTILIZER

1. PRODUCT INFORMATION

UNITED AGRI PRODUCTS 789 Donnybrook Drive Dorchester, Ontario NOL 1G5

EMERGENCY NUMBERS

During Working Hours: (UAP) 1-800-265-4624 After Hours (Burns): 1-800-561-8273 Canutec (Collect): 1-613-996-6666

Exposure Reporting - Minnesota Regional Poison Control Centre: 1-800-228-5635, Ext. 136 or 1-612-851-8180, Ext. 136 (Collect)

Preparation of Information: Irwin Schmidt, 1-800-265-4624 Date Issued: Jan. 23, 2002

Reference: Nortrace MSDS

Chemical Identity: Potassium nitrate, monoammonium phosphate, diammonium phosphate, urea and micronutrients Product Use: Inorganic chemical fertilizer mixture

2. HAZARDOUS INGREDIENTS

Hazardous Ingredients (CAS or UN Number)	Content	AOLD50 (Rat)	ADLD50 (Rabbit)	AILC 50(Rat)
Total Nitrogen as N	20%	n/e	n/e	n/e
Total Phosphorous as P205	20%			
Total Potassium	20%			
Balance - Micro-ingred inert ingredients/tra), fertili	zer salts,

3. PHYSICAL INFORMATION

Appearance & Odour: White to off-white and light coloured granular powders with fertilizer-like odours Specific Gravity: n/a Boiling Pt, deg C: n/e Vapour Density (air = 1): n/e Density (g/mL): n/e Freezing Pt, deg C: n/a Vapour Pressure (mm): n/e Solubility in Water: Appreciable

. FIRE or EXPLOSION HAZARD

Flammability (Specify Conditions): N/A

Flash Pt, deg C (method): N/A

Evaporation Rate: n/e

Means of Extinction: Determined by surrounding fire. Not considered combustible.

Special Fire Fighting Procedures: Full protective equipment and self-contained breathing apparatus.

Hazardous Combustion Products: Urea may decompose in a fire situation and release cyanuric acid, ammonia, hydrogen cyanide, oxides of nitrogen, and irritating particulates. Sulfur-containing components may release oxides of sulfur.

Unusual Fire & Explosion Hazards: N/E

5. REACTIVITY INFORMATION

Stability (Conditions to avoid): Stable - Avoid excessive heat; moisture.

Reactivity & Under What Condition: Polymerization will not occur.

Incompatibility (Materials to avoid): Strong oxidizing

Hazardous Decomposition Products: Urea may decompose to release cyanuric acid, ammonia, HCN, NOx .

6. HEALTH HAZARD INFORMATION

Routes of Entry: Skin and eye contact, acute inhalation and ingestion.

Effects of Overexposure: These blended dry fertilizers are typically mixtures of potassium, phosphates, chlorides, nitrates, sulfur, sulfates, urea, and micro-ingredient range quantities of metal salts such as iron, manganese, copper and zinc. A review of the ingredient salts indicates that ingestion may cause diarrhea, purging, and flatulence. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected breathing of fertilizer dust. Product users should avoid prolonged or repeated skin contact, and they should use eye protection when required by conditions of use. Product users should wash thoroughly after using or handling these fertilizers. Since children could receive toxic ingestive doses of fertilizers, these products should be stored in a secure place where children cannot get at them.

Exposure Limits: TLV = 10 mg/m3 nuisance dust Irritancy of Product: Fertilizer dusts may irritate the eyes and respiratory system. Prolonged product contact may irritate sensitive skin.

Sensitization of Material: None known. Pre-existing respiratory conditions may be aggravated by exposure to dusts.

Carcinogenicity: None listed.

7. PREVENTATIVE MEASURES

Respiratory Protection: Use NIOSH approved particulate respirator if respirable dust generation occurs or is anticipated during product use.

Eyes: Goggles/Face Shield Gloves: Rubber or Impervious

Footwear: Rubber or Impervious Clothing: Coveralls or Impervious apron when handling concentrate.

Other: Work in well ventilated area.

Engineering Control: These products are fertilizers. Do not eat them and avoid breathing their dusts.

Leak & Spill Procedures: Notify management of any fertilizer spills. Fertilizer spills should be swept up and/or be shoveled into closed containers for recovery and use or disposal. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Waste Disposal: For more information on the disposal of unused, unwanted product and the cleanup of spills, contact the provincial regulatory agency or the manufacturer.

Storage Requirements: Store this product in a cool, dry place, away from sources of high heat. Protect bags or other containers from damage. Keep bags or other containers closed when not in use.

TRANSPORTATION OF DANGEROUS GOODS: Not regulated.

8. FIRST AID MEASURES

Take container, label or product name and Product Registration Number with you when seeking medical attention. Call a physician immediately in all cases of suspected poisoning.

Ingestion: Dilute with water or milk. If necessary induce vomiting only when victim is conscious.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration

- - - - - MATERIAL SAFETY DATA SHEET - - - - -

United Agri

NORTRACE 20-20-20-SOLUBLE FERTILIZER

Skin: Wash from skin with soap and water.

Eyes: Flush with running water for at least 15 minutes
until irritation subsides.

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by United Agri Products as to the results to be obtained based upon your use of the information, nor does United Agri Products assume any liability arising out of your use of the information.

n/a = not applicable n/e = not established

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COMPAS Code: 11230902

QUATREX

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: SYNTHETIC ABSORBENT PRODUCT USE: ABSORBENT MEDIA CHEMICAL FAMILY: OLEFINS CHEMICAL NAME: POLYPROPYLENE 99.7% Absorption Rate: 25 per 1 WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) WHMIS CLASSIFICATION: Not a controlled Product under (WHMIS) WORK PLACE HAZARD: Not applicable SECTION II: HAZARDOUS INGREDIENTS INGREDIENTS PERCENT OSHA PEL GAS NUMBER ACGIG TLV Not a hazardous material under WHMIS SECTION III: TOXICOLOGICAL PROPERTIES ROUTE OF ENTRY: () SKIN () EYE CONTACT () INHALATION () INGESTION HEALTH HAZARDS (ACUTE OR CHRONIC): None SIGNS & SYMPTOMS OF EXPOSURE : None - No toxic MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None SECTION IV: FIRST AID MEASURES No special procedures required SECTION V: PHYSICAL DATA APPEARANCE AND ODOUR : White & virtually odour SPECIFIC GRAVITY : 0.88 - 0.92 BOILING POINT (°C) : Not applicable : > 160 °C MELTING POINT (°C) SOLUBILITY IN WATER : Insoluble: Not applicable: Not applicable

QUATREX ENVIRONNEMENT INC.

: Not applicable

: Not applicable

PERCENT VOLATILE BY VOLUME

VAPOR DENTITY (Air = 1)

EVAPORATION RATE VAPOR PRESSURE (mm HG)

QUATREX

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (°C) FLAMMABLE LIMITS EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

: > 329°C (setchkin test)

: Not applicable

: Water, Foam, CO2, Dry chemical

: Standard procedure for Class a fires UNUSUAL FIRE AND EXPLOSION HAZARDS : Some carbon monoxide formation is possible under oxygen lean conditions

SECTION VII: REACTIVITY DATA

STABILITY:

STABLE (XX)

UNSTABLE ()

INCOMPATIBILITY (CONDITIONS TO AVOID)

: None

INCOMPATIBILITY (MATERIALS TO AVOID)

: Nitric Acid

Sulfuric Acid to 98% 60°C

41 . 11

HAZARDOUS POLYMERIZATION: None POSSIBLE

SECTION VIII: PREVENTIVE MEASURES

RESPIRATORY PROTECTION VENTILATION PROTECTION GLOVES EYE PROTECTION OTHER PROTECTIVE EQUIPMENT (SPECIFY)

: None required : None requised : None requised : None requised : None requised

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in dry area. Do not store near open flame, high heat or strong oxidants. Polypropylene, when heated, becomes very sticky and will burn. Use self-contained air masks to enter smokey area in the event of fire.

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED

No special steps to be taken if material is spilled or realeased

WASTE DISPOSAL METHOD

Sanitary lanfill or incineration site. Disposal must be done in accordance with local, provincial and federal regualations.

QUATREX

SECTION IX: PREPARATION

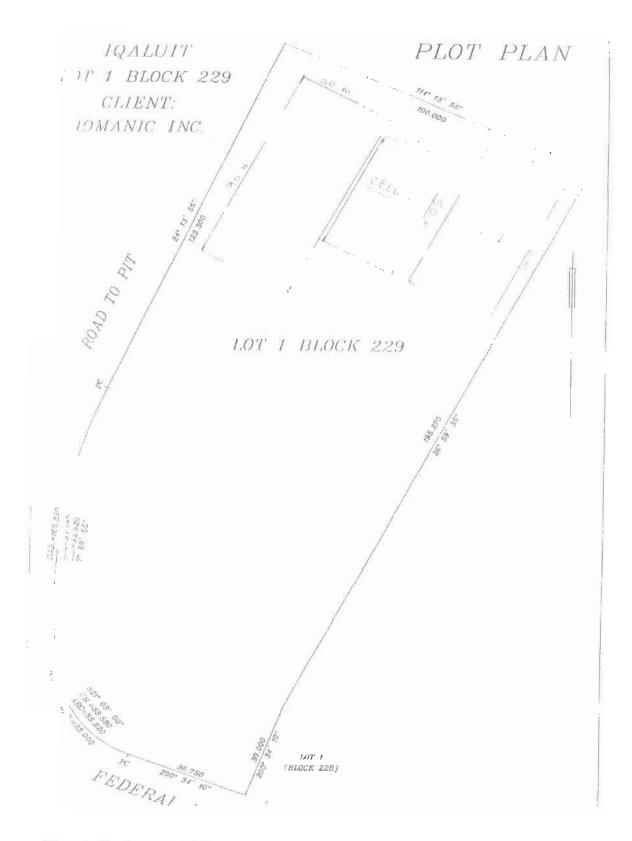
THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: JANUARY 13, 1997 PREPARED BY: SAFETY COMMITTEE

ATTACHMENT 3

Figures

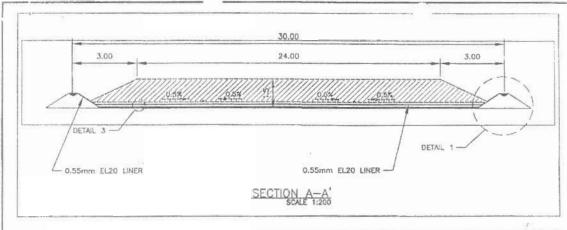
- Figure 1: Layout of the landfarm
- Figure 2: Schematic diagram of the landfarm
- Figure 3: Map of Iqaluit showing vicinity of the landfarm

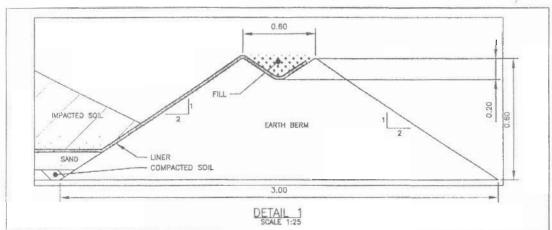


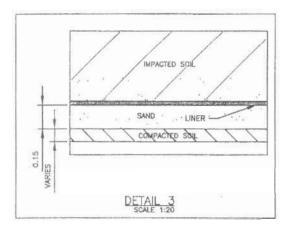
Nunatta Environmental Services inc.

Iqaluit, Nunavut.

Landfarm Site Location Plan.







DILLON	TITLE:	SECTION & DETAILS		PROJECT NO. 00-7944		
	SITE:	LAND FARM	SCALE: AS SHOWN DATE: JULY 2000			
	CLIENT:	NORTHERN FUTURES	FIGURE NO.	REVISION NO.		

APPENDIX II - GENERAL CONTINGENCY PLAN

1.0 Introduction

The purpose of this general contingency plan is to present information on Nunatta Environmental Services landfarm, reporting procedures to follow in case of a spill and action taken in case of malfunction events and details preventive maintenance procedures. Nunatta Environmental Services Inc. directors are committed to protect the environment by having its staff work in a responsible manner and by ensuring that all procedures included in the spill and general contingency plan are followed and respected.

2.0 Reporting procedures

This section is similar to section 4 (reporting procedures) of the spill contingency plan. The reporting procedures also include reporting of other events. It includes groundwater environmental monitoring reports, fire, personnel injuries and water use. Indian and Northern Affairs Canada (Lands section), the City of Iqaluit fire Chief, the Workmen Compensation Board and the Nunavut Water Board will respectively be issued activity reports, as required.

3.0 Site information

Information on NES landfarm is included in section 1 and 6 of the spill contingency plan (introduction and environmental mapping). Maps describing the landfarm and vicinities are found in attachment 3.

Water treatment and water disposal

As described in the spill contingency plan, rainwater falling on the contaminated soil is trapped by the geosynthetic liner and by the perimeter berm. To optimize biodegradation conditions, rainwater is pumped into three 8,000 liter tanks (one tank per cell) placed directly on the contaminated soil. During dry conditions, stored water (that may contain trace quantities of petroleum products) is sprayed on the contaminated soil to increase the soil's water content. Rainwater is thereby reused and recirculated. In the event that rainwater volumes were too important for the landfarm's use, it would be treated through an activated carbon system prior to being returned to an adjacent municipal ditch. A complete description of the activated carbon water treatment system is included in section 6 (response equipment) of the general contingency plan.

