Knight Piésold
CONSULTING

APPENDIX B

RAYMAC BRIEF ON FUEL BLADDERS IN ARCTIC CONDITIONS

- Information Brief 17 pages

raymac
environmental services inc.
train
prepare
prevent
respond

INFORMATION BRIEF

For

COLLAPSIBLE ARCTIC KING TERRA TANK®

History

Raymac Environmental Services Inc., (Mining Sales Agent) has been representing SEI Industries Ltd. (Manufacturer) for over 10 yrs now and together we have experienced tremendous growth within the mining sector globally as these temporary, highly portable and rugged fuel storage systems have emerged as the norm for temporary remote site applications due to their light weight yet very durable and dependable performance in severe arctic climate conditions.

SEI Industries Ltd. supplies highly portable, temporary liquid storage and containment systems to oil and mineral exploration companies, aviation companies, government agencies, militaries (in over 50 countries), the United Nations, relief agencies, original equipment manufacturers, and Fortune 500 companies.

SEI Industries Ltd. is certified to the ISO 9001:2000 standard for quality systems ensuring that the product has been manufactured under a quality system that meets the highest international standards. In order to attain certification, SEI Industries quality control system must be scrutinized by independent auditors. **Please see attached ISO 9001: 2000 Certification on the following page.**

Some of our customers include:

Military
Department of National Defense (Canada)
US Army
US Navy
US Air Force

Mining
Bema Gold
Canarc Resources
Cominco
DeBeers
Pacifica Resources
Tahera Diamonds Corp.
Tolukuma Gold Mines Limited
Western Keltic Mines

Oil & Gas
Total
Exxon
Agip

Certificat(e) CA95/124

The management system of
Le système de gestion de

SEI Industries Ltd.

7400 Wilson Avenue
Delta, British Columbia, V4G 1E5, Canada
has been assessed and certified as meeting the requirements of
a été évalué et enregistré selon les exigences de la norme

ISO 9001:2000

The scope of registration is as follows:
La portée d'enregistrement est présentée ci dessous:

Manufacture of fabric products and pumping equipment for liquid handling, containment and delivery.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the organization
Des éclaircissements supplémentaires concernant la portée à ce certificat ainsi que l'applicabilité des exigences de la norme selon ISO 9001:2000 peuvent être obtenus en consultant l'organisme

This certificate is valid from January 10, 2004 until January 9, 2007
Ce certificat est valide du 10 janvier 2004 au 9 janvier 2007
Issue 1. Certified since October 1995
Édition 1. Enregistrée depuis octobre 1995

Signed for and on behalf of SGS International Certification Services (Canada) Inc.
Document signé pour et au nom de SGS Services de Certification Internationale (Canada) Inc.

SGS International Certification Services (Canada) Inc.
SGS Services de Certification Internationale (Canada) Inc.
6275 Northam Drive, Unit 2, Mississauga, Ontario, L4V 1Y8 Canada
t (905) 676-9595 t 1-800-636-6447 f (905) 676-9519 www.sgs.com

Page 1 of 1

General Information – Arctic King Terra Tank®

The Arctic King Terra Tank® is a collapsible fabric tank that was designed for the temporary storage of liquid fuels that have up to 60% aromatic content. Life expectancy of these tanks in the field is approximately 12 years and each tank has 12 weather strips fixed to the outer surface whereby annually the customer can remove a strip and submit same to the plant for free fabric analysis thereby ensuring that the fabric is performing to climatic conditions. The fabric used in the construction of this Arctic King tank is a proprietary fabric produced exclusively for this product under the strictest of quality control conditions and batch testing is conducted regularly upon receipt at the plant.

Construction – Arctic King Terra Tank®

The raw material also known as fabric is a high tenacity nylon weave which has been double offset coated with a proprietary urethane making it extremely strong at a weight of 45 oz. per square yard. These Arctic King collapsible fabric tanks are manufactured using this proprietary fabric by cutting it into panels and RF (Electronic Radio Frequency) welding with state-of-the art equipment specifically designed for our manufacturing process.

It should also be noted that this fabric passes Military Specification MIL-T-52983F and passes cold crack testing to -50 F. **For further fabric specifications, please see attached fabric information specification sheet on the following page and pre delivery tank testing procedures.**

SEI INDUSTRIES LTD. REFERENCE INFORMATION

SEI Industries Ltd.
7400 Wilson Avenue
Delta, British Columbia
V4G 1E5
Canada
Phone: 604-946-3131
Fax: 604-940-9566

Reference Contacts:
Mr. Paul Reichard – Divisional Manager, Remote Site & Environmental Divisions
Office: 604-946-3131
Cell: 604-603-7280

Desert King MATERIAL
45 oz. - URETHANE COATED NYLON

Specifications for 1945 PTF
Military Specification MIL-T-52983E

BASE FABRIC

Type - Nylon cloth - high tenacity, heat and light resistant
Weight - 13.0 oz/sq. yd.

COATED FABRIC

Property	Requirement	Test Paragraph Test Method
Finished Coated Weight	45 ± 3.0 oz./sq. yd	ASTM D-751
Tongue Tear	50 lbs. (minimum)	3" x 8" sample size
Strip Tensile	650/550 lbs./in.	ASTM D-751 Cut Strip Method
Adhesion (minimum)	50 lbs./in.	ASTM D-751 Dielectric
Hydrostatic Resistance	800 psi	ASTM D-751
Low Temperature	Pass -50°F	ASTM D-2138
Puncture Resistance	1200 lbs.	ASTM D-751 (Ball tip)
Puncture Resistance	292 lbf (130 daN)	MIL-T-52983G Para. 4.5.2.12
Dead Load Seam Strength Room Temperature 180° F/71° C.	2" seam 250 lbs./in. 125 lbs./in.	Mil-T-43211 GL Para. 4.4.4 (4hr)
Permeability	0.02 fl.oz./ft²/24 hr.	MIL-T-52983G Para. 4.5.2.22
Colour	Tan	

Note:
The **Desert King** is offered exclusively by SEI Industries Ltd.

The following fluids are acceptable for containment in **Desert King**: Jet A, Jet B, JP-1, JP-4, JP-8, Kerosene, Avgas, Diesel fuels with less than 60% aromatic content, regular gasoline, isopropyl alcohol. With optional corrosion proof fittings: Phosphoric acid (10%), sodium hydroxide (60%).

Specifications subject to change without notice.

SEI INDUSTRIES

SEI INDUSTRIES

Air Testing Terra Tanks

WORK INSTRUCTION JWI-072-000-01 | Page 1 of 2

1.0 PURPOSE

1.1 The purpose of this document is to provide instructions for the air pressure testing of a Terra tank.

2.0 SCOPE

2.1 Production, Engineering, RF Department, Quality Department

3.0 RECORDS

3.1 Terra tank Pressure Test Sheet. These pressure test sheets are part of the quality record for the job in question, and thus will form part of SEI's quality records.

4.0 ASSOCIATED DOCUMENTS

4.1 Pressure Test Graph

4.2 Pressure Test Sheet

5.0 DEFINITIONS

5.1 None

6.0 RESPONSIBILITY

6.1 The RF Department is responsible for pressure testing.

7.0 TOOLS, GAGES, FIXTURES

7.1 Air pump, calibrated pressure gauge, fittings, isolation ball valve, LeakTec

8.0 SAFETY REQUIREMENTS

8.1 Large Terra Tanks tested outside MUST be securely fastened down.

9.0 INSTRUCTIONS

9.1 Refer to the Pressure Test Graph for the appropriate test pressure. To use the Graph, determine the lay flat width of the Terra Tank from the design drawing. Referencing the graph, find the lay flat width on the graph, and draw a vertical line until you intersect the pressure curve. From there, draw a horizontal line until you intersect the y-axis. Read the pressure value, and use this as the designated test pressure. **For tanks over 20,000 USG, DO NOT allow the test pressure to exceed 0.50 PSI.**

9.2 Connect the fittings to the terra tank. Make sure that the pressure gauge is between the tank and the ball valve. This will allow the pressure gauge to monitor the air pressure inside the tank once the ball valve has been closed.

9.3 Connect the pump's hose line to the fittings on the tank. Make sure that the ball valve is in

SEI INDUSTRIES

Air Testing Terra Tanks	
WORK INSTRUCTION JWI-072-001-01	Page **2** of 2

the open position.

9.4 Turn on the pump, and fill the tank until test pressure has been reached. Use the Calibrated Pressure Gauge to monitor the pressure as the tank is being filled. The Calibrated Pressure gauge will have a calibration sticker on it. Before using it, make sure that it has a valid calibration date on it. If there is no sticker, or if the sticker is worn away such that you cannot read the expiry date, or if the date has expired, DO NOT USE THIS GAUGE. Inform the Quality Manager immediately, and have him provide you with a Calibrated Pressure Gauge.

9.5 Allow the Terra Tank to sit pressurized for at least 30 minutes.

9.6 After 30 minutes, coat each seam and areas on the topcoat that you think may be questionable leak point with LeakTec. If there is an air leak, the LeakTec will produce tiny bubble almost immediately.

9.7 Mark the locations of all leaks on the tank with a Black Wax Marker.

9.8 Mark the location of all leaks on the Pressure Test Sheet.

9.9 Mark the location of any patches, made during production, on the Pressure Test Sheet.

9.10 Deflate and dry the tank.

9.11 Minor leaks can be repaired using the appropriate seam sealer.

9.12 Major leaks will require a welded patch, or removal of the leaking area and a larger area welded in. In some cases, the entire panel may need to be replaced.

9.13 Check the repaired tank against the Pressure Test Sheet to ensure that all leak locations have been repaired.

9.14 After any repairs, re-pressurize the tank for 30 minutes, and re-paint the damaged areas with leakTec, and test for leaks.

9.15 After Testing, fold the tank.

BEMA GOLD REFERENCE INFORMATION

Bema Gold Corporation
Suite 3100, Three Bentall Centre
595 Burrard Street
Vancouver, BC
V7X 1J1
Office Tel: 604-681-8371

Reference Contacts:
Mr. Bill Lytle – Manager of Permitting, Environmental, Health & Safety
Colorado Office
Tel: 1-970-498-9503
Cell No.: 1-970-310-7371

Mr. Fred Stalbush – Site Engineer – Kupol Project – Far Eastern Siberia
Vancouver Office
Office Tel: 604-681-8371
Cell No.: 604-318-3129

Bema Gold Corp. – Kupol Gold & Silver Project Details, Far Eastern Siberia

Raymac Environmental Services Inc. in conjunction with their principals, SEI Industries Inc. supplied and supervised the installation of a two (2) million gallon diesel fuel Terra Tank farm facility for Bema Gold's Kupol Project in Siberia during the winter of 2005. Constant follow up with the customer revealed that they were extremely pleased with the way these collapsible bladder tanks performed and reported that there were no negative incidents or complications to report.

The following is a list of materials which was supplied for this installation:

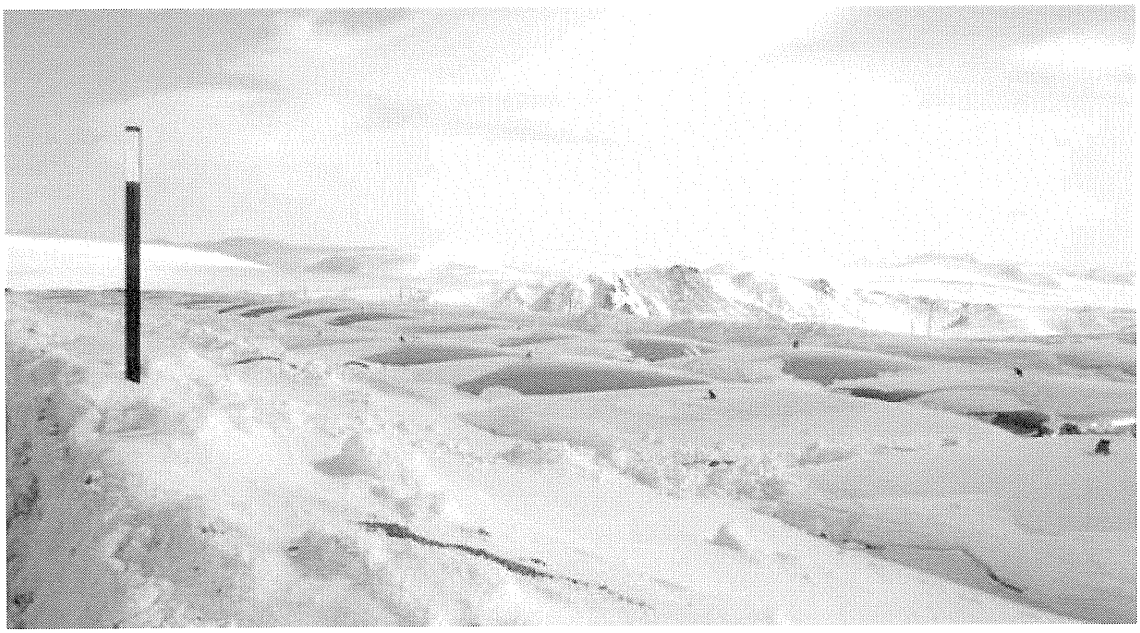
64 x 32,000 USG Arctic King Fuel Bladder Tanks
4 x 450 USG per Minute Trailer Mounted Transfer Pumps
1 x 100 USG per Minute Fuel Transfer Sysytem
1 – Fuel Reclamation System
Arctic Grade Manifolds & Misc. Fittings
Arctic Grade Transfer Lines
Included Spare Parts and Repair Kits.

Other Services that were provided:

Engineering & Design of Tanks and Secondary Containment
Emergency Response Training
Field Support Personnel
Onsite Installation Training
Onsite Maintenance Training

Bema Gold Kupol Project – First Berm Completed – 32 x 32,000 USG Arctic Terra Tanks

1 Million Gallons Diesel Fuel



Bema Gold Kupol Project – 2nd Berm Near Completion – 64 x 32,000 USG Arctic Terra Tanks

2M Gallons Diesel Fuel in total

PACIFICA RESOURCES REFERENCE INFORMATION

Pacifica Resources Ltd.
701- 475 Howe Street
Vancouver, BC
V6C 2B3
Office Tel.: 604-682.5474

Reference Contact:
Mr. Jason K. Dunning, M.Sc., P.Geo – Vice President, Exploration
Office Tel.: 604-682-5474 - Ext. 225
Cell No.: 604-831-6111

Pacifica Resources - Selwyn Zinc, Lead, Silver Project Details – Howard's Pass, Yukon

Due to a very aggressive $20 million dollar advanced exploration and environmental program over the next two (2) years on this world class Selwyn project in the Howard's Pass region of the Yukon, Pacifica Resources required a temporary cost effective and reliable fuel management system in place at two (2) of their remote camps to support ongoing operations in the area. Having knowledge of Raymac's expertise in developing large scale temporary fuel systems for remote site projects, Mr. Jason Dunning, V.P. of Explorations retained the services of Raymac Environmental Services Inc and their Principals, SEI Industries to design and supervise installation of two sizeable diesel fuel storage systems at two (2) of their exploration camps in the area. The Arctic King collapsible fuel bladder was the perfect choice for this application due to its durable, rugged yet lightweight construction.

The following is a list of materials which was supplied for this installation:

4 x 24,000 USG Arctic King Terra Tanks®
4 x 50'x50'x20" -Arctic Frame Supported Insta-Berm Secondary Containment Systems
4 ea Complete Secondary Berm Containment Water filtration Systems
2 x 100 USGPM Diesel Pumping Systems Complete with Diesel Filtration and back-up Filters
Spare Parts Kits for Pump Maintenance Program
All Necessary Hoses and Hardware for Fuel Systems Installations

Other Services that were provided:

Emergency Response Training
Field Support Personnel
Onsite Installation Training
Onsite Maintenance Training

Installation of Fuel Systems

Deployment of all four (4) 24,000 USG Arctic King bladder tank systems took place in early April of this year and customer is very pleased with the ease of operation of these fuel storage units. They have had no incidents what so ever and are planning to ramp up their onsite volumes of fuel by purchasing additional tanks in the very near future. **Please see attached letter of reference from Mr. Jason Dunning, (V.P. of Exploration)**

#701 – 475 Howe Street
Vancouver, British Columbia
Canada V6C 2B3
Telephone: (604) 682-5474
Toll-free: 1-877-682-5474
Fax: (604) 682-5404
info@pacifica-resources.com
www.pacifica-resources.com

VIA EMAIL

October 6, 2006

Robert C. McIntyre
President
Raymac Environmental Services Inc
Suite 134, 6374 Metral Drive
Nanaimo, British Columbia
V9T 2L8, Canada
Tel.: +1 (250) 390-1032

RE: LETTER OF REFERENCE FOR PRODUCTS AND SERVICES OFFERED BY RAYMAC AT SELWYN PROJECT, YUKON TERRITORY

Dear Robert:

Pacifica Resources Ltd. ("PACIFICA") is currently exploring the Selwyn Project in the Eastern Yukon along the border with the Northwest Territories. In 2005, Pacifica expended $4.1 million on exploration activities and this year, Pacifica is anticipating combined $14 million expenditure for both exploration and environmental baseline studies. Given the success of the last two exploration programs, Pacifica is anticipating a very sizeable exploration budget in 2007 that will include exploration, environmental baseline studies, and preliminary engineering. As a result of the large-scale scope and remote nature of the Selwyn Project, a cost effective and reliable fuel management system was required. Pacifica retained the services of Raymac Environmental Services Inc. ("RAYMAC") to aid in the design, installation, and implementation of these key assets. Raymac was selected because of their depth of experience in developing large-scale fuel systems for remote projects along with their ability to install and train operators in these remote regions, as well as their work with Pacifica's sister company, Yukon Zinc Corporation.

The design of the tank farms allows for easy expansion and decommissioning based on the ongoing fuel requirements of the project. The highly portable design of the fuel management system is essential for the Selwyn Project, as the project is currently supported solely by both fixed-wing and rotary-wing aircraft. Raymac supplied not only the arctic grade fuel bladders, but also the Insta Berm secondary containment systems, as well as the military grade pumping skids including all necessary hoses hardware and fuel filtration components. The level of service delivered has exceeded our expectations and Raymac is undoubtedly a leader in the industry.

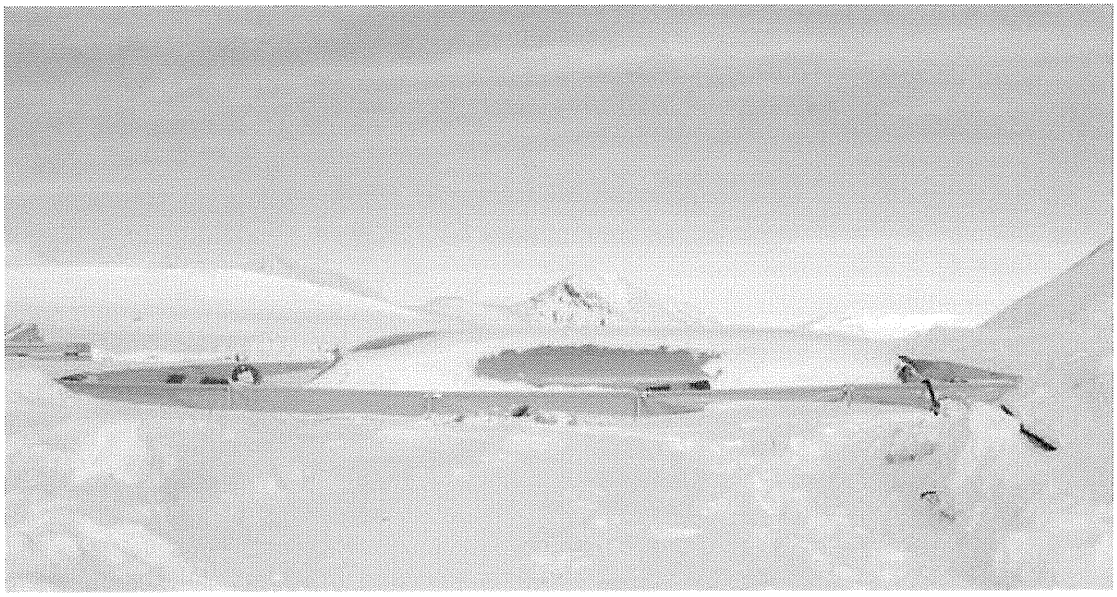
Pacifica would recommend the fuel bladder systems that Raymac provides for temporary remote fuel storage as they are of the highest quality and extremely durable. Pacifica has come to consider Raymac a key partner in our projects success and will continue to use their products and services as our projects grows.

Yours sincerely,
PACIFICA RESOURCES LTD.

Mr. Jason K. Dunning, M.Sc., P.Geo
Vice President, Exploration

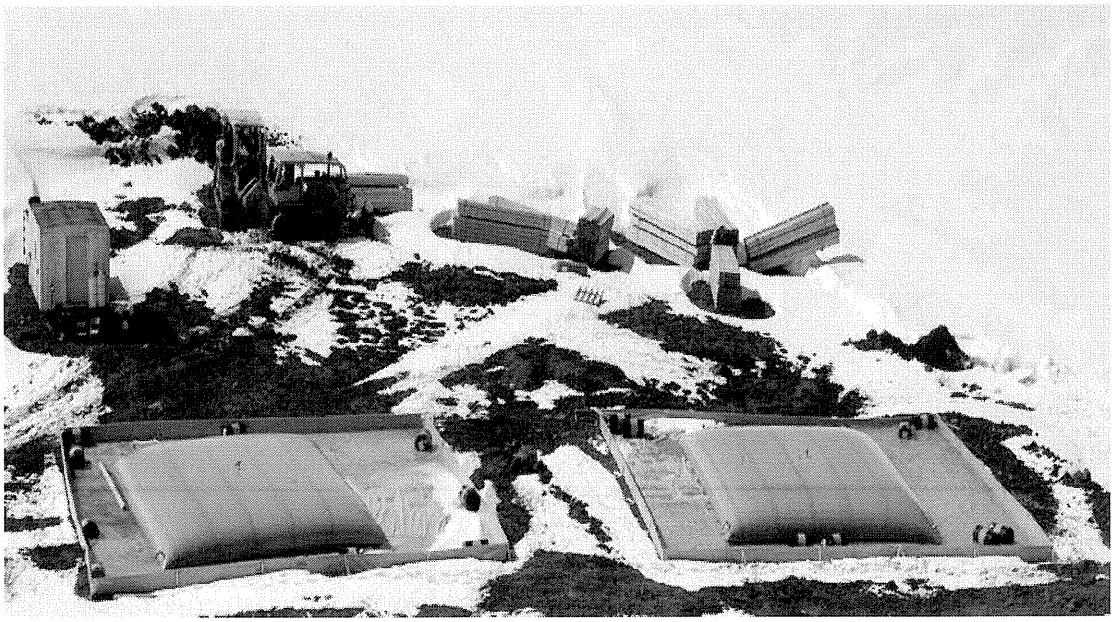
Pacifica Resources – Selwyn Project – Howard's Pass, Yukon

One of four (4) Complete 24,000 USG Arctic King Diesel Fuel Systems Installed



Pacifica Resources – Howard's Pass Selwyn Project, Yukon

Ariel View of 2 x 24,000 USG Diesel filled Arctic Bladder Tanks



TAHERA DIAMOND CORPORATION REFERENCE INFORMATION

Tahera Diamond Corporation
Exploration Office
17 Fawcett Road
Port CoQuitlam, BC
V3K 6V2
Office Tel.: 604-519-1977

Tahera Diamond Corporation
Head Office
Suite 1900 - 130 Adelaide St. West
Toronto, Ontario
M5H 3P5
Office Tel.: (877) 777-2004

Reference Contact:
Mr. Mike Johnson – V.P. of Exploration
Office Tel.: 604-519-1977
Cell: 778-899-7798

Raymac Environmental Services Inc was called upon by Tahera Diamond Corporation in February of 2006 to provide solutions for diesel fuel storage and secondary berm containment for the companies new Muskox exploration camp in Nunavut. The company needed two (2) berm containment systems, each having a sump capacity of 85,000 L for two (2) large steel fuel tanks that were transferred to the site from their Jericho mine site as well as an additional smaller tank of about 6,000 gallons that would be highly portable and would be easily deployed and decommissioned for various drilling operation assignments in the area. Raymac Environmental Services Inc proposed the following equipment which was purchased in late February and installed by Raymac in March of 2006.

The operations people onsite were very pleased with the equipment purchased and were amazed at how easy these systems could be decommissioned and re-deployed when needed for other onsite moves to support drilling operations etc. **Please see attached letter of reference from Mike Johnson (Exploration Manager)**

The following is a list of materials which was supplied for this installation:

1 x 6,000 USG Arctic Terra Tank® for diesel fuel storage
1 x 25' x 30' x 15" Arctic Insta-Berm w/L-Rod Support System for 6K USG tank
2 x 40' x 50' x 20" Arctic Insta-Berms w/Frame Supported Systems for ea. of the 90K litre steel tanks from their Jericho Mine site.
1 x 15' x 40' x 15" Arctic Insta-Berm w/L-Rod Support System for extra fuel drum storage
5 x ea. Rain Drain Water Filtration Systems with extra back up filter replacements for berms
1 x ea. Custom Fuel Pumping System - 100 GPM Electric powered, Explosion Proof System
All Arctic grade hardware, fittings and numerous lengths of fuel transfer hoses required for installation
An assortment of large spill kits and back up replenishing materials for same

Other Services that were provided:

Emergency Spill Response Training & TDG (Transportation of Dangerous Goods)
Field Support Personnel
Onsite Installation Training
Onsite Maintenance Training

Installation of Fuel and Containment Systems

The installation of these temporary remote site fuel and containment systems took place in late March of this year and customer is extremely pleased with their decision in using this type of fuel storage system supported by the secondary containment systems we provide. They have had no problems at all and are amazed at the effectiveness of these rugged light weight systems which they can decommission quickly to move to other work sites.

Tahera Diamond Muskox Camp, Nunavut

Arctic King Terra Tank® 6,000 USG in Arctic Insta-Berm™

Tahera Diamond Muskox Camp, Nunavut

40' x 50' x 20" Arctic Frame Supported Insta-Berm™

TAHERA
DIAMOND CORPORATION

Mr Mike Johnson
Tahera Diamond Corporation
Exploration
#340-17 Fawcett Rd
Coquitlam, BC. V3K 6V2

October 12, 2006.

To whom it may concern:

Tahera Exploration executed a drilling program from January to May of 2006 on its Polar Property, which is situated near Contwoyto Lake in Nunavut. The program required bulk fuel storage for up to 65 000 litres., as well as provisions for smaller amounts.

Tahera has been purchasing Raymac Environmental products and services since 2004. In 2006, Tahera purchased a 10 000 litre fuel bladder with a berm, as well as two large berms with a capacity of 85 000 litres. On top of this, several large spill kits and a fuel pump were purchased.

These items worked well for us in the extreme arctic environment. This was due to their durability, ease of mobility and simple set-up requirements. We felt that these products provided an easy and cost effective way to store fuel, prevent spills and mitigate environmental damage in the event of a spill.

Furthermore, Raymac Environmental provided a high standard of product support, through field visits to ensure the products were satisfactory and on-site training for setting up the berms, bladders, and spill kits. Further contact via email and phone was readily available.

We felt that we received a high level of genuine customer service, with a commitment to cost-effective solutions. Overall, we felt that the items delivered were of good quality, met our expectations, and worked well in the Arctic environment.

Sincerely,

Mike Johnson
Exploration Manager
Tahera Diamond Corporation

DEPARTMENT OF NATIONAL DEFENSE REFERENCE INFORMATION

CANADIAN FORCES BASE, ALERT, NUNAVUT

Government of Canada
National Defense Headquarters
Ottawa, Ontario
K1A 0K2

Reference Contact:
Christine Hong Tjoa
Section Head
Director Combat Support Equipment Management
Tel.: (819) 997-9964

General Information

Alert, Nunavut has a population of about 75 and has a Canadian military base located at the Northern most tip of Ellesmere Island on rugged terrain surrounded by hills and valleys. The shoreline is composed of slate and shale while the offshore is covered with pack ice throughout the summer months. In 1950, the Canadian Government established a weather station at Alert but it was taken over by the military in 1958. The military continues to use the base year-round, but does not reveal the number of men or the technology present at the site for reasons of security. Access to Alert is restricted to military personnel. It is the most northerly permanent settlement in the world.

Alert is the furthest north settlement in the world (82 °N). Snow covers the land near Alert for almost ten months a year that will create an albedo effect. Its high latitude creates a bigger angle for the suns rays, therefore the temperature will be lower (less concentration of the suns rays). The high albedo and high latitude, creates conditions where temperatures are extremely low both winters and summers.

Climate data for temperature and precipitation (over the past 40 years) for the Alert weather station:

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp(°C)	-32	-34	-33	-25	-12	-1	3.4	1	-9.7	-20	-27	-30
Prec (mm)	7.8	5.2	6.8	9.4	9.9	12.7	25	23.8	24.3	13.2	8.8	7.4

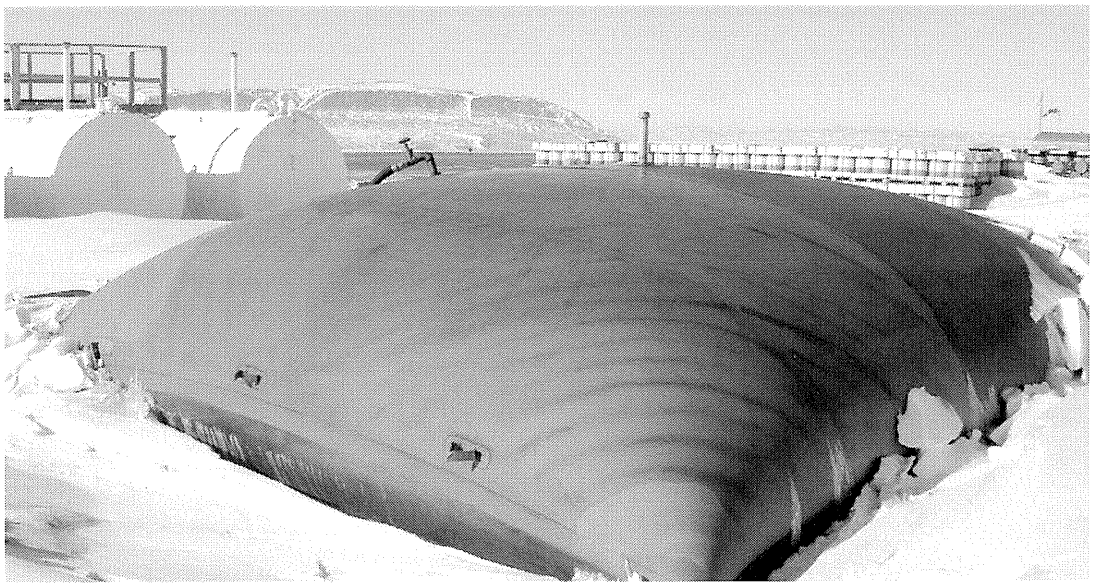
Installation of Arctic Terra Tanks® Canadian Forces Base Alert, Nunavut

SEI Industries Inc. supplied two (2) x 10,000 imperial gallon collapsible Arctic Grade Terra Tanks for back-up fuel storage for this Alert military base in Nunavut fourteen years ago. As these collapsible fuel bladder tanks have an infield life expectancy of about 12 years, they were finally decommissioned in 2004 and replaced by another two (2) units. During this period of service these tanks performed well and weathered the harsh arctic conditions without any incidents to report.

Please see attached letter of reference from Ms. Christine Hong Tjoa, Director of Combat Equipment Management with the National Defense Headquarters in Ottawa.

Department of National Defense – Canadian Forces Base Alert, Nunavut

One of two (2) x 10,000 Imperial Gallon Fuel Terra Tanks® in service for twelve years



National Defence / Défense nationale

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

RDIMS 2184G-300002758-100 VOL 0001

16 October 2006

Mr. Paul Reichard
Divisional Manager
SEI Industries Ltd
7400 Wilson Ave
Delta, BC
V4G 1E5

REQUEST FOR REFERENCE
BAFFIN LAND MINING GROUP

1. SEI Industries Ltd, has supplied the Canadian Department of National Defence with storage and distribution equipment for petroleum and water since 1992. This equipment has included complete turnkey fuel & water storage and distribution systems to environmental spill containment and countermeasures.

2. The Canadian Department of National Defence has an excellent working relationship with SEI Industries Ltd. The quality of products, service, and technical support has always been more than satisfactory.

3. Any queries on this subject may be directed to Ms. Christine Hong Tjoa at (819) 997-9964.

Christine Hong Tjoa
Section Head
Director Combat Support Equipment Management

Canada