

The Lexington-Fayette Urban County Government assumes no responsibility for Sealed Specification Responses that are not addressed and delivered as indicated above. Sealed Specification Responses that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected. All bids must have the company name and address, bid invitation number, and the commodity/service on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: See Specifications.

Bid Security Required: Yes No
 Performance Bond Required: Yes No

Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).

Commodity/Service	Geosynthetic Material Supply	See specifications.
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Check One:	Bid Specifications Met	Exceptions to Bid Specifications. Exceptions shall be itemized and attached to bid proposal submitted.
Proposed Delivery:	_____ days after acceptance of bid.	

Procurement Card Usage	Yes _____ No _____	The Lexington-Fayette Urban County Government will be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards?
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Submitted by:

Firm FBR Inc dba STRAPS INDUSTRIES
 Address 335 Atlanta Drive
 City, State & Zip Atlanta, GA 30601
 Signature of Authorized Company Representative - Title [Signature] - Geosynthetic Straps
 Representative's Name (Typed or printed) GOSS SCOTT
 Area Code - Phone - Extension (205) 981-1900
 Fax # (205) 981-1901
 E-Mail Address g_kscott@belsouth.net

Bid must be signed: (original signature)

The Affidavit in this bid must be completed before your firm can be considered for award of this contract.

Please refer to Section II, Bid Conditions, Item "U" prior to completing this form.

NOTARY PUBLIC, STATE AT LARGE

[Handwritten Signature]

My Commission expires: March 16, 2016

by Greco Scott on this the 13 day of June, 2012

The foregoing instrument was subscribed, sworn to and acknowledged before me

STATE OF AL COUNTY OF Shelby

[Handwritten Signature]

Further, Affiant sayeth naught.

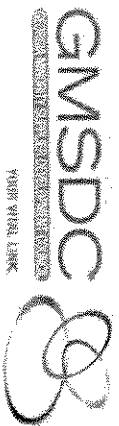
exists.
person is aware or should have been aware that his conduct is of that nature or that the circumstance respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a 7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with Fayette Urban County Government Code of Ordinances, known as "Ethics Act."
6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington- will not violate any provision of the campaign finance laws of the Commonwealth.
5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder taxes and/or fees are delinquent or that a business license has not been obtained.
4. Bidder has authorized the Division of Central Purchasing to verify the above- mentioned information with the Division of Revenue and to disclose to the Urban County Council that if applicable, prior to award of the contract.
3. Bidder will obtain a Lexington-Fayette Urban County Government business license, "current" status in regard to those taxes and fees during the life of the contract.
2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a the entity submitting the bid (hereinafter referred to as "Bidder").

PBR, INC. dba SCAPS INDUSTRIES

1. His/her name is Greco Scott and he/she is the individual submitting the bid or is the authorized representative of

Comes the Affiant, Greco Scott, and after being first duly sworn under penalty of perjury as follows:

AFFIDAVIT



Georgia Minority Supplier Development Council

THIS CERTIFIES THAT

PBR, Inc. dba SKAPS Industries

Has met the requirements for certification as a bona fide Minority Business Enterprise as defined by the National Minority Supplier Development Council, Inc.® (NMSDC®) and as adopted by the Georgia Minority Supplier Development Council

**NAICS Code(s): 313221 ; 313230

**Description of their product/services as defined by the North American Industry Classification System (NAICS)

01/27/2012

AT3948

Issued Date

Certificate Number

01/31/2013

Expiration Date

Stacey Key
Stacey Key, President

By using your assigned (through NMSDC only) password, NMSDC Corporate Members may view the original certificate by logging in at: <http://www.nmsdc.org>.



An affiliate of the National Minority Supplier Development Council, Inc.® (NMSDC®)

EQUAL OPPORTUNITY AGREEMENT

The Law

Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.

Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.

Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.

Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.

Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.



Signature

PBR Inc dba SKAPS INDUSTRIES
Name of Business

Skaps Industries

212 North Way
Birmingham, AL 35242
(205)981-1900; FAX (205)981-1901
Email: g.skscott@bellsouth.net

Monday, June 11, 2012

Mr. Todd Statin
Lexington-Fayette Urban County Government
100 East main Street – Room 338
Lexington, KY 40507

**Re: Haley Pike Landfill Closure, Georgetown, KY
Geocomposite Certification Letter**

Dear Mr. Statin:

We certify that the Skaps Industries, Inc. Transnet 220-2-6 geocomposite will meet the requirements as stated in the Bid Package #74-2012 of the Lexington-Fayette Urban County Government Haley Pike Landfill Closure specifications with the clarification that the cross direction tensile strength is not a standard quality control test done on the geonet material and will not be provided. The seat time for the transmissivity test performed on the Transnet 220-2-6 will be 15 minutes. Actual certifications and roll specific test results for the geotextiles will be provided upon shipment of the materials.

Sincerely,

Greg Scott

Greg Scott
Engineered Synthetic Products, Inc.

ENGINEERED SYNTHETIC PRODUCTS, INC.

Representing

Skaps Industries

212 North Way
Birmingham, AL 35242

Halley Pike Landfill Closure, Georgetown, KY
DRAINAGE PRODUCT DESCRIPTION SHEET

TRANSNET 220-2-6

TRANSNET 220-2-6 is a superior quality drainage media made by extruding two sets of HDPE strands together to form a diamond shaped net. The net is then heat laminated to a 6 ounce non-woven fabric on each side. This three dimensional structure provides excellent planar liquid flow. The TRANSNET 220-2-6 conforms to the physical property values listed below:

NET PROPERTY	TEST METHOD	UNITS	MINIMUM AVERAGE ROLL VALUE
Thickness	ASTM D-5199	mils	200
Density of Polymer	ASTM D-1505	g/cm ³	0.94
Melt Flow Index	ASTM D-1238	g/10 min.	0.5 max.
Carbon Black	ASTM D-1603	%	2 - 3
Tensile Strength - MD	ASTM D-5035	lbs/in.	25
Transmissivity (composite)	ASTM D-4716	m ² /sec	1.2 x 10 ⁻⁴ *
Ply Adhesion (composite)	ASTM D-7005	lbs/in	1.0

*Transmissivity of the geocomposite measured using water at 20 Degrees C with a gradient of 0.1, under a confining pressure of 1,000 psf, between geomembrane and clay after a 15 minute seating time. Values may vary based on dimension of the transmissivity specimen and specific laboratory.

STYLE GE-160

GE-160 is a superior quality, nonwoven geotextile produced by needlepunching together 100% polypropylene staple fibers in a random network to form a high strength dimensionally stable fabric. The polypropylene fibers are specially formulated to resist ultraviolet light deterioration, and are inert to commonly encountered soil chemicals. The fabric will not mildew, is non-biodegradable, and is resistant to damage from insects and rodents. Polypropylene is stable within a pH range of 2 to 13. GE-160 conforms to the physical property values below:

FABRIC PROPERTY	TEST METHOD	UNITS	MINIMUM AVERAGE ROLL VALUE
Weight	ASTM D-5261	oz.	6
Thickness	ASTM D-5199	mils	80
Grab Tensile	ASTM D-4632	lbs	155
Grab Elongation	ASTM D-4632	%	50
Trap Tear	ASTM D-4533	lbs	60
Puncture Strength	ASTM D-4833	lbs	75
Mullen Burst Strength	ASTM D-3786	psi	285
Water Flow Rate	ASTM D-4491	gpm/ft ²	110
Permittivity	ASTM D-4491	sec ⁻¹	1.47
Permeability	ASTM D-4491	cm/sec	0.35
UV Resistance	ASTM D-4355	%/hours	50/500
Apparent Opening Size	ASTM D-4751	Sieve size	70

SKAPS Industries



HISTORY

SKAPS Industries is a leader in the fabrication of geosynthetic drainage products for the environmental industry in the U.S. and abroad. Through its exclusive manufacturing processes, SKAPS is able to meet the supply demands of even the largest orders and most rigorous schedules.

SKAPS began producing geonets and geocomposites in February, 1997 in Commerce, Georgia. Geonet thicknesses range from 160 mils to 330 mils. Geocomposites are laminated either single or double sided.

SKAPS operates three state-of-the-art geonet extrusion lines, seven days a week. Our staged process offers high capacity and production flexibility allowing us to service customers with special project-specific requirements without interfering with standard daily production.

SKAPS maintains strict quality control over its products using the best and latest in testing equipment and techniques. Not only do we maintain a strict QA/QC program based on GRI and ASTM procedures, we also utilize the most accurate and efficient equipment available.

SKAPS is committed to providing customers with the highest quality drainage nets and geocomposites while meeting today's stringent construction deadlines and providing exceptional customer service before and after the sale. When it comes to geonets and geocomposites, SKAPS Industries is the answer for environmental drainage control.

SKAPS INDUSTRIES, INC.
Engineered Synthetic Products, Inc.

GEONET / GEOCOMPOSITE TESTING PROCEDURES

QC Sampling Schedule

All tests are performed every 35,000 square feet of production except for compressibility and melt index, which are tested once per shift (approximately every 250,000 square feet of production). Transmissivity is done on a requested basis.

Weight / Area (ASTM D 5261)

The width is determined by measuring the sample in three places--once across each cut end and once across the center. The three measurements are then averaged and reported in inches. The length is also determined by measuring three places--along both edges and along the center. These values are averaged and reported in inches. Samples are then taken and weighed to the nearest .001 lb/sf. The weight is divided by the average width to obtain a weight per length value. The weight/length number is divided by the average width value to obtain weight per area. The value is reported in lbs/sf.

Thickness (ASTM D 5199)

Five specimens are cut from across the width of the lab sample. A thickness gauge with a 3/4 inch presser foot is used to measure the thickness of each specimen. The values are recorded and reported as an average in inches.

Tensile Strength (ASTM D 5035)

Five specimens are cut from across the width of the lab sample. They are then placed in the jaws of the Instron Machine and a load is applied at a constant strain of 12 in/min until yield. The results of the tensile test are then averaged and recorded.

% Carbon Black (ASTM D 4218)

The carbon black test determines the percent by weight of the product that is carbon black. The percent of carbon black is the ratio of the residue weight after pyrolysis in a muffle furnace compared to the weight of input specimen. Two grams of the net are cut and placed in aluminum dishes. The samples are then placed in a muffle furnace for ten minutes at 600 degrees centigrade. The samples are removed and allowed to cool. The carbon black percentage is calculated and recorded.

Ply Adhesion (ASTM F 904)
 Five specimens are cut from across the entire width of the composite sample, each measuring one inch wide by ten inches long. The strain rate for the test is 10 in/min. The fabric is clamped in one jaw of the Instron machine while the net is clamped in the other. The fabric is pulled away from the net to test the adhesion of the fabric to the net.

Transmissivity (ASTM D 4716)
 The transmissivity test for the composite is identical to the test for the geonet.

Melt Index (ASTM D 1238)
 The melt index determines the rate of the extrusion of the molten resin through a die of specified length and diameter at a temperature of 190 degrees centigrade under a load of 2.16 kg and is measured in g/10min. A sample of approximately 2.5 grams of geonet is then put through the melt plastometer to verify flow rates.

Density of Polymer (ASTM D 1505)
 Taking samples from the melt index test, small strands are cut and measured in a density column. A mixture of distilled water and isopropyl alcohol is used as the suspension fluid.

Transmissivity (ASTM D 4716)
 The transmissivity test measures the inplane flow of water across the net sample. In the standard test, the sample is placed between two steel plates with the water temperature at 20 degrees centigrade. Different gradients and loads are applied to the sample. The values are then calculated and converted to gallons per min/ft, or meters²/sec. Transmissivity is not a standard manufacturing quality control test but rather a design indicator and is tested on a per project request basis.

10/2003

**HANDLING AND INSTALLATION
MANUAL**

GEOCOMPOSITE

DRAINAGE NET

TRANSNET

SKAPS INDUSTRIES, INC.

Engineered Synthetic Products, Inc.

Phone (770) 564-1857

Fax (770) 564-1818

Introduction

Geocomposites provide a solution to various drainage problems. As with any synthetic product, the quality assurance and quality control does not stop once the product is shipped from the factory. Whether the product has been specified for vertical wall hydrostatic relief or horizontal flow zones for landfill cells/closure and roadways, care in handling and installation is critical to the future functioning of the product.

TRANSNET is manufactured utilizing high quality HDPE resin and lamination of high strength to weight ratio nonwoven geotextiles. The lamination process is completed at the same location where the net is manufactured, minimizing additional handling and allowing for supply of custom lengths. TRANSNET can have one or both sides laminated in order to meet the design specification.

Manufacturing

TRANSNET is manufactured utilizing state-of-the-art counter rotating dies and the highest quality resin. TRANSNET is manufactured with the addition of carbon black to stabilize against degradation from UV exposure.

Packaging

Upon completion of the lamination process, the geocomposite will be wrapped in an opaque wrap to prevent exposure to UV and for protection from the weather, dust, etc. In the event only TRANSNET is required, shipping in a wrapper is not necessary.

Each roll will be stickered or tagged so that the following information is available at all times from the manufacturer:

- Manufacturer's Name
- Product Identification
- Lot Number
- Roll Dimensions

SKAPS INDUSTRIES, INC. Engineered Synthetic Products, Inc.

Shipping and Storage

Geocomposite rolls will be shipped in original packaging. In the event the packaging is damaged during shipment, repairs should be made to ensure protection against UV and weather. Care should be used during the off loading to ensure that the machinery used does not penetrate packaging.

Storage of the rolls prior to installation should be in an area where they are not in standing water. For storage longer than 30 days, rolls should be elevated off the ground with tires, pallets or 2x4's to prevent water from saturating the bottom row. The stack should then be covered with a material that will give additional protection from the elements. Should the product be exposed to excessive dust, the product should be washed prior to installation.

Site Preparation

The design engineer will determine how and where the geocomposite is to be utilized. With any application, care should be used in placing net or composite so that it is not damaged by stones or other protrusions that may compromise the functionality of the product.

Installation

TRANSNET should be installed by hand. Once the roll is delivered to the installation location via rubber-tired loader or other appropriate machinery, the rolls should be inspected for any damage from shipping or handling. Once the rolls are positioned, they should be unrolled by hand. For slope applications, the rolls should be rolled from top to bottom and hand tightened to remove any wrinkles. The TRANSNET portion of adjacent rolls shall be overlapped two to four inches or according to the Engineer's recommendation. These overlaps shall be joined by tying the geonet cores together with white or yellow plastic fasteners (minimum tensile strength of 100 lbs). When placing TRANSNET end to end, overlap in shingle placement fashion a minimum of one foot. For end-to-end placement, the top layer of geotextile shall be peeled back and excess TRANSNET will be trimmed so that the top layer of geotextile covers the attachment of the two layers of geocomposite. The TRANSNET will be attached to adjacent rolls utilizing plastic wire ties. These ties will be placed at a maximum spacing of 5 feet along the sides of the rolls and a maximum of 2 feet for end to end attachment, or according to the Engineer's specification.

Metal ties or hog rings are not to be used.

Anchoring

For slope applications, TRANSNET should be placed in a trench so that pull out or slippage is prevented. The trench should be in accordance with the Design Engineer's requirements. Sand bags should be on hand at all times and placed on edges not seamed to prevent uplift from the wind. Welding of the TRANSNET to HDPE liner or any other geomembrane is not recommended.

SKAPS INDUSTRIES

INSTALLATION GUIDELINES

Nonwoven Geotextile, Nets and Composites

Heat Seaming

Nonwoven B Separate or Laminated

Nonwoven geotextiles can be joined together by using fusion seaming methods. The minimum overlap for this type of welding is four inches. Prior to fusion seaming the geotextile together, the installer must demonstrate to the Field Engineer the ability to perform this type of installation method. Areas burned through that are damaged by fusion welding shall be properly repaired. Care should be taken during installation to prevent damage to the geotextile. Torn or punctured material shall be patched with sufficient overlap to prevent separation.

Sewing Procedure

Nonwoven B Separate or Laminated

Fabric layers should be placed on the ground (preferably firm ground) so that the edges to be sewn are parallel and overlapping. The sewing operation typically requires three men--a machine operator and a man on each side of the machine. The lead man should hold the fabric edges evenly together and feed the fabric into the sewing machine head or folder. The man behind the machine should hold tension on the fabric so the machine operator has a taut and straight edge to sew across. If the machine misses a stitch or runs off the fabric, terminate the seam by cutting and tying the thread. Begin a new seam approximately one foot behind the broken seam.

Overlapping

Nonwoven-Separate or Laminated Separate

Roll goods form of geotextile should be overlapped a minimum of 12". Care should be taken that roll goods remain parallel to each other. Extreme care should be taken to assure that soil does not intrude into the composite structure thus clogging the drainage net.

HDPE Chemical Resistance Chart

Reagent	70 deg. F (21 deg. C)	140 deg. F (60 deg. C)
Acetic Acid 1-10%	S	S
Acetic Acid 10-60%	S	S
Acetic Acid 80-100%	S	S
Acetone	M	M
Acrylic Emulsions	S	S
Aluminum Chloride-Dilute	S	S
Aluminum Chloride Conc.	S	S
Aluminum Fluoride Conc.	S	S
Aluminum Sulfate Conc.	S	S
Alums (All Types) Conc.	S	S
Ammonia 100% Dry Gas	S	S
Ammonium Carbonate	S	S
Ammonium Chloride Sat'd	S	S
Ammonium Fluoride 20%	S	S
Ammonium Hydroxide 0.85 S.G.	S	S
Ammonium Metaphosphate Sat'd	S	S
Ammonium Nitrate Sat'd	S	S
Ammonium Persulfate Sat'd	S	S
Ammonium Sulfate Sat'd	S	S
Ammonium Thiocyanate Sat'd	S	S
Amyl Acetate	M	M
Amyl Alcohol 100%	S	S
Amyl Chloride 100%	N	N
Aniline 100%	S	S
Antimony Chloride	S	S
Aqua Regia	U	U
Barium Carbonate Sat'd	S	S
Barium Chloride	S	S
Barium Hydroxide	S	S
Barium Sulfate Sat'd	S	S
Barium Sulfide Sat'd	S	S
Beer	S	S
Benzene	M	M
Benzene Sulfonic Acid	S	S
Bismuth Carbonate Sat'd	S	S
Bleach Lye 10%	S	S
Black Liquor	S	S
Borax Cold Sat'd	S	S
Boric Acid Dilute	S	S
Boric Acid Conc.	S	S
Bromine Liquid 100%	M	M
Butanediol 10%	S	S
Butanediol 60%	S	S
Butanediol 100%	S	S
Butyl Alcohol 100%	S	S
Calcium Bisulfide	S	S
Calcium Carbonate Sat'd	S	S
Calcium Chlorate Sat'd	S	S
Calcium Chloride Sat'd	S	S
Calcium Hydroxide	S	S
Calcium Hypochlorite RRGH	S	S
Calcium Nitrate 50%	S	S
Calcium Sulfate	S	S
Camphor Oil	N	N
Carbon Dioxide 100% Dry	S	S
Carbon Dioxide 100%Wet	S	S
Carbon Dioxide Cold Sat'd	S	S
Carbon Disulfide	N	N
Carbon Monoxide	S	S
Carbon Tetrachloride	M	M
Carbonic Acid	S	S
Castor Oil Conc.	S	S
Chlorine Dry Gas 100%	S	S
Chlorine Moist Gas	M	M
Chlorine Liquid	M	M
Chlorobenzene	M	M
Chloroform	M	M
Chlorosulfonic Acid 100%	M	M
Chrome Alum Sat'd	S	S
Chromic Acid 20%	S	S
Chromic Acid Up to 50%	S	S
Chromic Acid and Sulfuric Acid	M	M
Cider	S	S
Citric Acid Sat'd	S	S
Coconut Oil Alcohols	S	S
Cola Concentrates	S	S
Copper Chloride Sat'd	S	S
Copper Cyanide Sat'd	S	S
Copper Fluoride 2%	S	S
Copper Nitrate Sat'd	S	S
Copper Sulfate Dilute	S	S
Copper Sulfate Sat'd	S	S
Cottonseed Oil	S	S
Crude Oil	M	M
Cuprous Chloride Sat'd	S	S
Cyclohexanol	S	S
Cyclohexanone	M	M
Detergents Synthetic	S	S
Developers, Photographic	S	S
Dextrin Sat'd	S	S
Dextrose Sat'd	S	S
Dibutylphthalate	M	M
Disodium Phosphate	S	S
Diazo Salts	S	S
Diethylene Glycol	S	S
Diglycolic Acid	S	S
Dimethylamine	M	M
Emulsions, Photographic	S	S
Ethyl Acetate 100%	M	M
Ethyl Alcohol 100%	S	S
Ethyl Alcohol 35%	S	S
Ethyl butyrate	M	M
Ethyl Chloride	M	M
Ethyl Ether	U	U
Ethylene Chloride	U	U

Legend: S=Satisfactory U=Unsatisfactory M=Marginal N=Not known

Reagent	70 deg. F	140 deg. F	21 deg. C	(60 deg. C)
Ethylene Chlorohydrin	U	U	U	U
Ethylene Dichloride	M	U	U	U
Ethylene Glycol	S	S	S	S
Ferric Chloride Sat'd	S	S	S	S
Ferric Nitrate Sat'd	S	S	S	S
Ferric Chloride Sat'd	S	S	S	S
Ferrous Sulfate	S	S	S	S
Ferrous Chloride Sat'd	S	S	S	S
Ferrous Sulfate	S	S	S	S
Ferrous Chloride Sat'd	S	S	S	S
Fluoboric Acid	S	S	S	S
Fluorine	U	S	S	S
Fluosilicic Acid 32%	S	S	S	S
Fluosilicic Acid Conc.	S	S	S	S
Formaldehyde 40%	N	S	S	S
Formic Acid 0-20%	S	S	S	S
Formic Acid 20-50%	S	S	S	S
Formic Acid 100%	S	S	S	S
Fructose Sat'd	S	S	S	S
Fruit Pulp	S	S	S	S
Fuel Oil	U	S	S	S
Furfural 100%	U	M	U	U
Furfuryl Alcohol	U	M	U	U
Gallic Acid Sat'd	S	S	S	S
Gas Liquids	M	S	S	S
Gasoline	U	M	U	U
Gin	U	S	S	S
Glucose	S	S	S	S
Glycerine	S	S	S	S
Glycol	S	S	S	S
Glycolic Acid 30%	S	S	S	S
Grape Sugar Sat'd Aq.	S	S	S	S
Hexanol, Tert.	S	S	S	S
Hydrobromic Acid 50/O	S	S	S	S
Hydrocyanic Acid Sat'd	S	S	S	S
Hydrochloric Acid 10%	S	S	S	S
Hydrochloric Acid 30%	S	S	S	S
Hydrochloric Acid 35%	S	S	S	S
Hydrochloric Acid Conc.	S	S	S	S
Hydrochloric Acid 40%	S	S	S	S
Hydrofluoric Acid 60%	S	S	S	S
Hydrofluoric Acid 75%	S	S	S	S
Hydrogen 100%	S	S	S	S
Hydrogen Bromide 10%	S	S	S	S
Hydrogen Chloride Gas Dry	S	S	S	S
Hydrogen Peroxide 30%	S	S	S	S
Hydrogen Peroxide 90%	M	S	S	S
Hydrogen Phosphide 100%	S	S	S	S
Hydroquinone	S	S	S	S
Hydrogen Sulfide	S	S	S	S
Hypochlorous Acid Conc.	S	S	S	S
Inks	S	S	S	S
Lactic Acid 10%	S	S	S	S
Lodine (Alic. Sol.) Conc.	U	S	S	S
Lubricating Oils	U	S	S	S
Lubricating Baths	S	S	S	S
Magnesium Carbonate Sat'd	S	S	S	S
Magnesium Chloride Sat'd	S	S	S	S
Magnesium Hydroxide Sat'd	S	S	S	S
Magnesium Nitrate Sat'd	S	S	S	S
Magnesium Sulfate Sat'd	S	S	S	S
Magnesium Chloride Sat'd	S	S	S	S
Magnesium Sulfate Sat'd	S	S	S	S
Methyl Alcohol 100%	S	S	S	S
Methyl Bromide	M	M	U	U
Methyl Chloride	M	M	U	U
Methyl Ethyl Ketone 100%	M	M	U	U
Methylsulfuric Acid	S	S	S	S
Methylene Chloride 100%	M	M	U	U
Milk	S	S	S	S
Mineral Oils	U	S	S	S
Molasses Comm.	S	S	S	S
Nickel Chloride Sat'd	S	S	S	S
Nickel Nitrate Conc.	S	S	S	S
Nickel Sulfate Sat'd	S	S	S	S
Nicotine Dilute	S	S	S	S
Nicotinic Acid	S	S	S	S
Nitric Acid 0-30%	S	S	S	S
Nitric Acid 30-50%	M	S	S	S
Nitric Acid 70%	M	S	S	S
Nitric Acid 95-98%	U	U	U	U
Nitrobenzene 100%	U	U	U	U
Orange Extract	S	S	S	S
Oleum Conc.	U	U	U	U
Oleic Acid Conc.	S	S	S	S
Oils and Fats	M	U	U	U
Octyl Cresol	U	S	S	S
Petroleum Ether	U	U	U	U
Phenol 90%	U	U	U	U
Phosphoric Acid Up to 30%	S	S	S	S
Phosphoric Acid Over 30%	S	S	S	S
Phosphoric Acid 90%	S	S	S	S
Phosphorous (Yellow) 100%	S	S	S	S
Phosphorous Pentoxide 100%	N	S	S	S
Photographic Solutions	S	S	S	S
Pickling Baths	S	S	S	S
Sulfuric Acid	S	S	S	S
Hydrochloric Acid	S	S	S	S
Sulfuric-Nitric	U	S	S	S
Lead Acetate Sat'd	S	S	S	S
Latex	S	S	S	S
Lactic Acid 90/O	S	S	S	S

70 deg. F 140 deg. F (21 deg. C) (60 deg. C)

Sulfuric Acid	S	S
Sulfuric Acid, Fuming	U	U
Sulfuric Acid 98%	M	M
Sulfuric Acid 96%	M	M
Sulfuric Acid 80%	S	S
Sulfuric Acid 70%	S	S
Sulfuric Acid 0-50%	S	S
Stearic Acid 100%	S	S
Starch Solution Sat'd	S	S
Stannic Chloride Sat'd	S	S
Stannous Chloride Sat'd	S	S
Sodium Sulfite Sat'd	S	S
Sodium Sulfite Sat'd Sol.	S	S
Sodium Sulfide 25%	S	S
Sodium Sulfate	S	S
Sodium Nitrate	S	S
Sodium Hypochlorite	S	S
Sodium Hydroxide Conc.	S	S
Sodium Fluoride Sat'd	S	S
Sodium Ferrocyanide Sat'd	S	S
Sodium Ferricyanide	S	S

Tallow	S	M
Tannic Acid 10%	S	S
Tanning Extracts Comm.	S	S
Tartaric Acid Sat'd	N	N
Tetrahydrofurane	N	U
Titanium Tetrachloride Sat'd	N	U
Toluene	M	U
Transformer Oil	S	M
Trisodium Phosphate Sat'd	S	S
Trichloroethylene	U	U
Urea Up to 30%	S	S
Urine	S	S

Vinegar Comm.	S	S
Vanilla Extract	S	S
Wetting Agents	S	S
Whiskey	S	N
Wines	S	S
Xylene	M	U
Yeast	S	S
Zinc Chloride Sat'd	S	S
Zinc Sulfate Sat'd	S	S

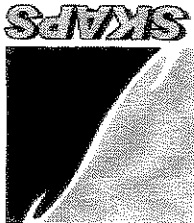
70 deg. F 140 deg. F (21 deg. C) (60 deg. C)

Brass	S	S
Cadmium	S	S
Chromium	N	N
Copper	S	S
Gold	S	S
Indium	S	S
Lead	S	S
Nickel	S	S
Rhodium	S	S
Silver	S	S
Tin	S	S
Zinc	S	S
Potassium Bicarbonate Sat'd	S	S
Potassium Borate 1%	S	S
Potassium Bromate 10%	S	S
Potassium Bromide Sat'd	S	S
Potassium Carbonate	S	S
Potassium Chlorate Sat'd	S	S
Potassium Chromate 40%	S	S
Potassium Cyanide Sat'd	S	S
Potassium Dichromate 40%	S	S
Potassium Ferric/Ferro Cyanide Sat'd	S	S
Potassium Fluoride	S	S
Potassium Hydroxide 20%	S	S
Potassium Hydroxide Conc.	S	S
Potassium Nitrate Sat'd	S	S
Potassium Perborate Sat'd	S	S
Potassium Perchlorate 10%	S	S
Potassium Sulfate Conc.	S	S
Potassium Sulfide Conc.	S	S
Potassium Sulfite Conc.	S	S
Potassium Persulfate Sat'd	S	S
Propargyl Alcohol	S	S
Propyl Alcohol	S	S
Propylene Dichloride 100%	U	U
Propylene Glycol	S	S

Rayon Coagulating Bath	S	S
Sea Water	S	S
Selenic Acid	S	S
Shortening	S	S
Silicic Acid	S	S
Silver Nitrate Sol.	S	S
Soap Solution Any Concn	S	S
Sodium Acetate Sat'd	S	S
Sodium Benzoate 35%	S	S
Sodium Bicarbonate Sat'd	S	S
Sodium Bisulfate Sat'd	S	S
Sodium Bisulfite Sat'd	S	S
Sodium Borate	S	S
Sodium Bromide Dilute Sol.	S	S
Sodium Carbonate	S	S
Sodium Chlorate Sat'd	S	S
Sodium Cyanide	S	S
Sodium Dichromate Sat'd	S	S

Legend: S=Satisfactory U=Unsatisfactory M=Marginal N=Not known

SKAPS TRANSNET PROJECT LIST



1. **Landwell Basic Remediation**
Henderson, Nevada
Purpose - Restoration Project
Installation Date - Summer 2008
Owner - Landwell
Engineer - Geosyntec
Installer - Environmental Specialties, Inc.
Product - Transnet 270-2-6; Transnet 220-2-8
Quantity - 2,021,600 sf; 2,534,000 sf
2. **Shoosmith Landfill Cell 22 & 23**
Chester, Virginia
Purpose - Landfill Cells
Installation Date - 2005 and 2006
Owner - Shoosmith Brothers
Engineer - SCS Engineers
Installer - Landsaver
Product - Transnet 330-2-6; Transnet 330-2-6
Quantity - 942,000 sf; 700,000 sf
3. **AES Cayuga Landfill**
Lansing, New York
Purpose - Landfill Cell
Installation Date - Fall 2007
Owner - AES Cayuga
Engineer - Fagan Engineers, Dave Andrews
Installer - Chenango Contracting, Carl Burdick (607) 729-8500
Product - Transnet 270-2-8
Quantity - 377,650 sf
4. **Bath Landfill**
Bath, New York
Purpose - Landfill Cell
Installation Date - Summer 2008
Owner - Steuben County Department of Public Works
Engineer - Barton & Loguidice, John Brusa (315)457-5200
Installer - Chenango Contracting, Carl Burdick (607) 729-8500
Product - Transnet 270-2-6; GE-124
Quantity - 1,100,400 sf; 44,250 sy
5. **Berkeley County Landfill Cap**
Martinsville, West Virginia
Purpose - Landfill Closure
Installation Date - Spring/Summer 2004
Owner - Berkeley County
Engineer - GAI Consultants, Charlie Straley (304) 926-8100
Installer - Environmental Construction, Inc., Matt Gibson (304) 755-8241
Product - Transnet 220-2-H060
Quantity - 2,450,000 sf

6. **Chevron - Phase 2, Castro Cove Sediment Remediation Project**
 Richmond, CA
 Purpose - Sediment Cap
 Installation Date - February, 2009
 Owner - Chevron, Inc.
 Engineer - Arcadis Engineers
 Installer - SGS, Inc, Reno, NV (775) 856-1300
 Product - Transnet 270-2-8
 Quantity - 718,740 sf

7. **Clover Power Station Landfill**
 Clover, Virginia
 Purpose - Landfill Cell
 Installation Date - Spring 2008
 Owner - Clover Power
 Engineer - Golder & Associates
 Installer - Texas Environmental Plastics, Bob Nantz (281)821-7320
 Product - Transnet 300-2-6
 Quantity - 1,272,670 sf

8. **Decatur County Landfill**
 Bainbridge, GA
 Purpose - Landfill Cell
 Installation Date - August 2008
 Owner - Decatur County Board of Commissioners
 Engineer - Harbin Engineering, Steve Harbin (478) 972-9122
 Installer - Plastic Fusion, Huntsville, AL (256) 852-0378
 Product - Transnet 270-1-6
 Quantity - 365,000 sf

9. **Halley Pike Landfill Closure**
 Lexington, KY
 Purpose - Landfill Closure
 Installation Date - Spring 2007
 Owner - St. Mary's County
 Engineer - Tetra Tech, Roger Blair (859)223-8000
 Installer - Environmental Construction Inc., Matt Gibson (304)755-8241
 Product - Transnet 220-2-6
 Quantity - 2,735,880 sf

10. **Jamestown Landfill**
 Jamestown, CA
 Purpose - Landfill Cell
 Installation Date - September 2008
 Owner - City of Jamestown, CA
 Engineer - RMC Geoscience
 Installer - D&E Construction, Visalia, CA (925) 934-5625
 Product - Transnet 220-2-6
 Quantity - 833,750 sf

- 11. Johnston County Landfill
Smithfield, North Carolina
Purpose - Landfill Cell
Installation Date - Spring 2009
Owner - Johnston County
Engineer - Richardson, Smith, Gardner & Assoc. Pieter Scheer (919)828-0577
Installer - Hallaton, Inc. Kennedy Garber (410)583-7700
Product - Transnet 270-2-6
Quantity - 812,000 sf
- 12. Lewiston Solid Waste
Lewiston, ME
Purpose - Landfill Cell
Installation Date - May 2009
Owner - City of Lewiston, ME
Engineer - CMA Engineers, Portland, ME
Installer - RTD, Inc., Madison, ME (207) 696-3964
Product - Transnet 270-2-7; Transnet 330-2-7
Quantity - 288,400 sf; 288,400 sf
- 13. Princess Colliery Mine
Sydney Mines, Nova Scotia
Purpose - Mine Tailings Cap
Installation Date - January 2009
Owner - Sydney Mines of Canada
Engineer - A&E Services, Toronto, CN
Installer - Titan Environmental, Grande Pointe, Manitoba (204) 256-5446
Product - Transnet 220-2-6
Quantity - 1,984,500 sf