

APPENDIX A – SURVEY FORM

Geosynthetics Utilization in Federal Lands Programs

(Please return survey by mail to Brent Robinson, Dept of CE, CB 7908, Raleigh, NC 27695-7908, or fax to (919) 515-7904, or e-mail to brrobins@ncsu.edu)

Agency _____
 Name _____
 Title _____
 Address _____
 City _____ State _____ Zip _____
 Phone No. _____ Fax No. _____
 Email address _____

Please answer the following questions. Mark answers with a check; more than one may apply. Attach additional sheets, if necessary.

1. Have you ever used Geosynthetics in construction projects?

No (Go to question 2)

Yes

If yes: About how many projects per year?

Less than one

one

2 to 5

6 to 10

11 to 20

more than 20

2. Mark the applications that you were involved (**I**) in the design or construction (with or without geosynthetics); then mark (**G**) for projects that also used geosynthetics.

ROADS

(I) (G)

{ } Unpaved, Rehabilitation

{ } Paved, Asphalt Overlays

{ } Frost heave

{ } Edge Drains

{ } Other _____

(I) (G)

{ } Unpaved, New Construction

{ } Paved, Subgrade Reinforcement

{ } Deep Patches for Soft Shoulders

{ } Separation (base course from soil)

GEOTECHNICAL

(I) (G)

{ } Retaining Walls

{ } Embankments (Reinf., soft soil)

{ } Rock Slopes

{ } Shallow footing subgrade reinf.

{ } Other _____

(I) (G)

{ } Mechanically Stabilized Earth Walls

{ } Construction Platforms

{ } Soil Slopes

{ } Drainage

Of the above, which applications are most commonly used by, or for, your agency?

3. State the reasons that led to the use of geosynthetics over other materials in projects identified in Question 2. _____

4. Do you have specifications, policy manuals and/or design guidelines for use of geosynthetics in any of the applications listed above?
Yes ____ No ____ if yes, please list and attach a copy to this survey, if possible.
1. _____
2. _____
3. _____

5. Do you have performance data of geosynthetics in any of your projects?
Yes ____ No ____ if yes, please attach a copy to this survey, if possible.

6. For what type of projects does your agency use geosynthetics?
(Check all that apply.)
 Temporary construction measure - 0 to 3 months
 Semi- permanent measure – up to 2 years
 Permanent Installation- over 2 years

7. Indicate all of the types of geosynthetics that your agency uses or has used.

- a. Geotextiles
 - Woven _____
 - Non-woven needle punched _____
 - Non-woven heat bonded _____
 - Other (state type) _____
- b. Geogrids
 - Uniaxial _____
 - Biaxial _____
- c. Geonets
 - Description _____
- d. Gemembranes
 - Description _____
- e. GCL (Geosynthetics Clay Liners)
 - Description _____
- f. Combination(s) of the above (such as Drainage Geocomposites) (state) _____

- g. Other (state) _____

8. Does your agency have a pre-approved product list? Yes _____ No _____
If yes, please attach a copy of your pre-approved list.

9. How does your agency obtain the information necessary to approve a product? Check all that apply.

- Tests by this agency
- Demonstrations by the manufacturer
- Tests conducted by an independent consultant
- Research conducted on various products and methods
- Manufacturer's certification letters
- Tests by other FHWA agency
- Demonstrations by FHWA

10. Have the available products and methods produced satisfactory results? Describe successful projects using geosynthetics: _____

11. Have you had unsuccessful experiences with geosynthetics? Describe. What do you believe was the source of the problems? _____

13. What information would you like to have when selecting geosynthetics for a project?

14. Comment on your agency's other challenges in using geosynthetics

15. Geosynthetics has the potential to offer substantial cost saving in Federal Land Projects if properly designed and installed

- Strongly Agree Agree Neutral Disagree Strongly Disagree

16. Reason for not using Geosynthetics includes:

- No design guidelines
- No documentation in standards
- Do not know about the materials
- Unaware of geosynthetics applicability to an application
- No prior experience with the materials
- No information on long term performance of the material

17. May we contact you with questions or for clarifications? Yes _____ No _____

Other Comments: _____

Thank you for your time and effort.