

LRC-I-7
SOIL DEPTH AND QUALITY REQUIREMENTS
FOR RECLAMATION OF RANGELANDS

CONTRACTOR: North Dakota State University Agricultural Experiment Station

PRINCIPAL INVESTIGATORS: Gary A. Halvorson, Ph.D., Soil Scientist
Land Reclamation Research Center
North Dakota State University
(701) 667-3002

Donald R. Kirby, Ph.D., Associate Professor
Animal and Range Science Department
North Dakota State University
(701) 237-8386

| <u>Sponsor</u> | <u>Cost Share</u> |
|-------------------------------|-------------------|
| North Dakota Lignite Council | \$15,420 |
| North Dakota State University | 29,025 |
| ND Industrial Commission | <u>20,730</u> |
| Total | \$65,175 |

Project Schedule – 1 Year

Contract Date – 7/18/88
Start Date – 7/1/88
Completion Date – 6/3/89

Project Deliverables

Progress Reports ✓
Final Report – 8/28/89 ✓

OBJECTIVE / STATEMENT OF WORK

The objective of this research is to determine soil replacement depths and quality necessary to meet productivity and species diversity requirements for reclaimed grassland as compared to reference areas within similar topographic units. This research will quantify the effect of soil quality, soil and spoil texture and topography on diversity and productivity of a given rangeland site. This was the first year of a proposed three-year program.

STATUS

This program was extended into the second year as LRC-III-14.