

NONPOINT SOURCE 319(h) PROJECT PROGRESS REPORT FORM

Version 1.5

Federal Fiscal Year of project:

TODAY'S DATE:

Please select which reporting period.

MIDYEAR REPORT?:

ANNUAL REPORT?:

QUARTERLY REPORT?:

PROJECT TITLE:

REPORT DATES: FROM: TO:

STATE NAME:

ADDRESS:

ADDRESS:

CITY: STATE: ZIP:

PHONE: EXT:

FAX: EMAIL:

PREPARED BY:

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OVERALL PROJECT ACCOMPLISHMENTS

Since the establishment of the project to evaluate vegetated treatment systems (VTS's), three stakeholder meetings have been held, in December 2004, January 2005, and February 2005. Representatives of the following groups have attended one or more of the stakeholder meeting: SDSU, SD Farm Bureau, SD Cattlemen's Association, DENR, SD Dept of Ag, Moody County Conservation District, and NRCS. A consulting engineer with a private consulting firm in SD that does many animal waste system designs has also asked to be included in the stakeholders meetings.

The first graduate student has been identified. She has already participated in various scouting and planning tasks and will commence full-time effort on this project in May 2005.

The project is off to a good start. While much remains to be accomplished, the project is in the appropriate position to accomplish the planned tasks.

An add-on project has already been discussed among various stakeholders and investigators. A grant proposal was submitted to the NRCS Conservation Innovation Grant program and was sponsored by Cattlemen's Associations from SD, ND, NE, IA, MN, MO, and IL. If grant funds are procured, additional VTS sites (two

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per state) will be established in the six states surrounding IA. Additional funds will be sought for monitoring those additional VTS sites.

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OBJECTIVES/TASKS ACCOMPLISHMENTS

OBJECTIVE 1: CHARACTERIZE AND ESTABLISH THE PILOT AFOS THAT WILL BE USED TO TEST THE EFFECTIVENESS OF VTAS AS AN ALTERNATIVE ANIMAL WASTE MANAGEMENT SYSTEM BMP.

TASK 1. CHARACTERIZE AND ESTABLISH FIVE VTA SITES.

The existing sites are located in McCook and Miner Counties in SE SD. The Roberts Co site (NE SD) has changed locations and cooperators because of change of plans by the original cooperator. The new location (and cooperator) will be a suitable site. The Meade Co (W SD) site is on target, nearing the end of the design phase. The fifth and final site has not yet been identified. It is expected that the site will be selected from locations in Gregory Co (already visited by the investigators) or Jackson or Jones Co (to be visited by the investigators yet in April 2005).

A grant proposal was submitted by the Miner Co CD for matching funds to be used for construction at the fifth site.

Work planned for next six months: The Roberts and Meade Co site designs will be completed and construction either completed or nearing completion. NRCS is completing the designs for the Roberts and Meade Co sites. The fifth site will be selected, the design completed, and construction begun. SDSU will design this fifth site.

This task is on schedule. The fifth site is not yet identified but numerous possible sites exist and have been scouted.

OBJECTIVE 2: MEASURE THE SURFACE WATER QUALITY IMPACTS OF VTA'S AT THE SITES

TASK 2: CHARACTERIZE WATER, NUTRIENT, SALT, SEDIMENT, AND FECAL COLIFORM BACTERIA FLOWS AT EACH SITE.

The dry winter and spring resulted in little to no runoff from the lots. No samples have yet been collected at the two established sites.

Work planned for next six months: Runoff samples will be collected and analyzed, harvested forage samples will be collected and analyzed, and fall soil samples will be collected from the McCook and Miner Co sites. We expect that initial soil samples will be collected and runoff sample collection will commence at the Roberts and Meade Co sites.

This task is on schedule in that little runoff has occurred so sampling opportunities have not been lost. The task is behind schedule in that the automatic runoff samplers have not yet been installed. They will be installed within the next two months when student labor becomes more plentiful.

OBJECTIVE 3: COMPARE THE PERFORMANCE AND FINANCIAL FEASIBILITY OF EACH VTA TO A WASTEWATER BASIN AT THE SAME SITE.

TASK 3: COMPARE PERFORMANCE OF VTA SYSTEMS TO SIMULATED PERFORMANCE OF BASINS AT ALL SITES.

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No progress to report.

Work planned for next six months: The graduate student will attend training at Iowa State University to become proficient with the simulation models. Data assembly for the models will commence and preliminary model runs will be completed.

This task is on schedule.

TASK 4: COMPLETE ECONOMIC COMPARISONS OF SYSTEMS AT ALL SITES.

No progress to report.

Work planned for next six months: Activity addressing this task will commence in 2006.

This task is on schedule.

TASK 5: INFORMATION TRANSFER (I&E)

Preliminary contacts have been made with SDSU Ag Info personnel representing print and broadcast media. Media image collection will commence with site visits in summer of 2005.

Work planned for next six months: Further planning will take place with media personnel. On-site image collection will take place and preliminary print media reports will be published.

This task is on schedule.

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CONCLUSIONS

The project generally is on schedule. The dry winter and spring have impeded runoff sample collection but adequate time remains in the project for sampling and analysis. The stakeholder group has provided valuable input to the project in the three meetings.
