

QUALITY ASSURANCE PLAN
for
LITTLE TOBY CREEK WATERSHED

AMD SITE LT-20

FOX TWP., ELK COUNTY, PA

Statement of project: The work to be accomplished under this contract consists of the construction of a wetland pond, two limestone-filled treatment beds and a settling basin to effectively treat abandoned mine drainage. Installation of permanent and temporary erosion and sediment control measures and structures are part of the project.

This is a Class IV job.

B. Major items of work to be inspected and timing of inspections are:

ITEM NO.	WORK OR MATERIAL	WORK DAYS	INSPECTION PART FULL	
1.	Mobilization	14	X	
2.	Clearing and Grubbing	2	X	
3.	Pollution Control	1	X	
3A.	Silt Fence	1	X	
4.	Permanent Seeding	2		X
4A.	Wetland Plantings	1	X	
5,6,7 & 8.	Earth Fill & Excavation	10		X
5A.	Mushroom Compost	1		X
9,10 & 11.	Rock Fill	5	X	
12	Diversions	2	X	
13,14,15 & 16	Plastic Pipe	5		X
17 & 18	HDPE Liner with Geotextile	5		X
19	Rock-lined Waterways	3	X	
20	Access Road	3	X	

C. Timing of inspections needed:

1.
 - a. 41 Work days: $30 \times 1.4 = 57$ calendar days
 - b. Weather: 8 calendar days
 - c. Mobilization time: $10 \times 1.4 = 14$ calendar days
 - d. Seasonal shutdown time: 0 calendar days
 - e. Holidays: calendar days
 - f. Total performance time: 79 calendar days
 - g. Total performance time does not include seasonal shutdown.

2. Notice to Proceed: (To be determined at time of bidding) _____

3. Completion Date: (79 days from Notice to Proceed) _____

D. Construction Sequence: See Erosion and Sedimentation Control Plan

E. Skills and training needed to perform the inspection:

1. Project Manager

Skills

- a. Must supervise one or more inspectors.
- b. Must understand the design concept.
- c. Must be familiar with quality assurance tests and inspection.
- d. Must be able to maintain communication with the contractor.

Training

- a. Has completed Management Level I.
- b. Has training in Soil Classification. (Unified System)
- c. Has two years construction experience.
- d. Can identify proper compaction methods and procedures.

2. Inspector:

Skills

- a. Perform basic staking and surveying.
- b. Inspect excavation and fill operations.
- c. Inspect permanent vegetation establishment.
- d. Inspect rock waterway construction.
- e. Maintain required records.

Training

- a. Has one year of construction related experience.
- b. Has training in construction layout and staking.

F. Inspection equipment and facilities:

Survey equipment.

Photographic equipment.

G. Prepared by or under the direction of and recommended by:

_____ Date: _____
Area Engineer

H. Engineering technical approval and job classification concurrence:

_____ Date: _____
Area Engineer

I. Statement of availability:

1. Project Manager : _____ is available to serve as Project Manager during the period _____ to _____ on the Little Toby Creek Watershed AMD Site LT-20.
2. Inspector : _____ is available to serve as inspector during the period _____ to _____ on the Little Toby Creek Watershed AMD Site LT-20.

J. Others:

CONCUR: _____ Date: _____
Assistance State Conservationist

CONCUR: _____ Date: _____
Immediate Supervisor

Reference: SCS Acquisition Regulation Circular # 1, January 27, 1986.