U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

NRCS-ENG-538
5-86 (REDRAWN 7-01)
Modified June, 2009 JC

SOIL INVESTIGATION

FARMERS NAME _____ DISTRICT _____

DATE _____ COUNTY _____

NRCS PHOTO SHEET NO. _____ WORK UNIT _____

WATERSHED AREA MEASUREMENTS

CROPLAND _____ ACRES PASTURE _____ ACRES

WOODLAND _____ ACRES TOTAL _____ ACRES

Practice Code

Sketch of proposed practice where boring were made. (Approx. scale 1 in.=_____ft.)
Locate reference point in center line of dam and identify on sketch

SHOW DEPTH SCALE

BORING NUMBER AND PROFILE
Make and list dam-site and spillway borings first — then ponded area and borrow pit borings — separate with vertical red line. (Continued on back where necessary) Show water table elevations on dam-site borings.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

BORINGS MADE BY _____ SIGNATURE AND TITLE _____

TYPES OF MATERIAL ENCOUNTERED IN BORINGS
(Use one of systems below)

UNIFIED CLASSIFICATION	USDA CLASSIFICATION
GW – Well graded gravel; gravel, sand mix	g – gravel
GP – Poorly graded gravels	s – sand
GM – Silty gravels; gravel–sand–silt mix	vfs – very fine sand
GC – Clayey gravels; gravel–sand–clay mix	sl – sandy loam
SW – Well graded sands; sand–gravel mix	fsl – fine sandy loam
SP – Poorly graded sands	l – loam
SM – Silty sand	gl – gravelly loam
SC – Clayey sands; sand–clay mixtures	si – silt
ML – Silts; silty, v. fine sands; sandy or clayey silt	sil – silt loam
CL – Clays of low to medium plasticity	cl – clay loam
CH – Inorganic clays of high plasticity	sicl – silty clay loam
MH – Elastic silts	scl – sandy clay loam
OL – Organic silts and silty clays, low plasticity	sic – silty clay
OH – Organic clays, medium to high plasticity	c – clay

1. Suitable material is available for practice. ☐ YES ☐ NO (Indicate where located on the sketch on reverse side)

REMARKS:

2. Explain hazards requiring special attention in design (Seepage, spring, rock, etc.)

GENERAL REMARKS:

27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54