N A V A J O S E R V I C E
Window Rock, Arizona
May 10, 1940

MEMORANDUM FOR: Firman Brown

FROM: H. F. Johnson

SUBJECT: Preliminary Soils Report on Black Falls Project.

The following are the findings of M. M. Hutchinson and myself after a rapid inspection of the area.

There are approximately 600 acres of land at the lower end of the area and a strip immediately adjacent to the Malapai fill that appears to be satisfactory for irrigation.

Of this area approximately 350 acres will be quite susceptible to wind erosion. Sub-drainage may be somewhat restricted on 150 acres. On the remaining 200 acres drainage will be somewhat excessive, aggravating a droughty condition.

Approximately 150 acres appear to be very good agricultural land, having a surface texture of average clay loam, adequate sub-drainage, and apparently a low salt content.

The remaining 100 acres have a light clay surface, but may have a slightly high salt content and somewhat restricted sub-drainage.

In general the remainder of the area appears too heavy and tight to be utilized by Navajos for irrigation. Local small areas of this may appear satisfactory after a more intensive investigation. A considerable portion of this might make a very satisfactory sacaton meadow if there is sufficient water available. Analysis of check samples taken may shed more light on the area.

H. F. Johnson
Acting in Charge
Division of Physical Surveys

HFJ:mf

F. W. 251