

Memorandum

TO: Director, Tennessee Valley Authority
FROM: Director, U.S. Army Corps of Engineers

DATE: April 20, 1961

- : Pauline O. Berryberry, Head, Special Projects Office, Tennessee Valley Authority, 1000 Deaderick Street, Room 2003, TVA Bldg., Chattanooga, Tennessee 37401.

EXPLANATION OF THE PLANT - WATER AND WASTEWATER AREA INSPECTION

HRB

On September 15, 1960, Scott Morris of TVA DE and J. L. Stewart and I made inspection of the plant disposal areas of Kingston Sewer Treatment Plant under the direction of Guy Wood, Yards Construction Superintendent.

The first water system inspection was made on September 18, 1960, and the wastewater system inspection was made on April 16, 1961 (check number 10).

The following is a list of findings April 16, the date of inspection.

Changes in Water Since Last Inspection

There has been no significant change in "Miles" since last year's inspection.

All Miles appear to be stable. The majority of all Miles are in good condition and in good operating service. A few Miles have been replaced due to surface or bottom side sludge (picture 1) to meet operating conditions. There is no difference between them of any noticeable erosion.

Changes in Water Conditions Since Last Inspection

There has been no change in pond operation since last year's inspection.

Condition of Stillings, Diffusers, and Shelters

The existing stillings had changes in the existing ponds due to dredging and filling previously (picture 2). The existing diffusers were installed into the plant sewer channel (picture 3) and are in good condition. The diffusers have been replaced in the past year and will be in good condition. The existing outlet diffusers are in good condition and appear to be in good condition. The edges of the outlet diffusers are in good condition and lack of erosion in the outlet channel.

The outlet through the diffuser give to the existing ponds are dredged and filled with silt. The flowing boro across this channel outlet has been removed.

An outlet from the existing ponds is located in the plant sewer channel. It is located upstream of the stilling ponds. In this area, a concrete structure has been constructed which has caused the plant sewer channel to be filled with silt. This outlet has been connected to the existing ponds by a pipe. The outlet has been dredged and filled with silt to the existing ponds so to have good operating conditions properly (picture 4). The structures from these outlets will change if the stilling pond was in good condition. (picture 3 and 5).

Daniel D. Stratton
Supervisor, D-1001

3/24/81 - SUBJECT: D-1001 - D-1002 - D-1003 - D-1004 - D-1005

The author of the plugged and abandoned spillways in the diversion channel of Dike Channel submerged by Watts Bar Lake and could not be located for signature.

Action on D-1001 - Sections of Body Inspection

Previously mentioned areas of dike slopes have been re-inspected and found to be in good condition with very poor results due to the dry weather. (see TVA-00005799)

Recommendation

Re-tell all areas of the dike slopes where no information can be obtained. A new owner has not been established, with type 6, section E, in accordance with sections 180 and 182 of the TVA Specifications.

J. L. Moore
J. L. Moore
D. Stratton

2/26/81

Attachment

2/26/81

D. Stratton

C. L. Beck
C. L. Beck

2/26/81 - SUBJECT:

cc: C. L. Beckman, TVA 1001 (Attachments)

2/26/81 - SUBJECT:

cc: R. G. Bennett, TVA 1001 C-K (Attachments)

S. R. Jack, TVA 1001 C-K (Attachments)

MMA, 1001 UP-K (Attachments)

R. M. Johnson, TVA 1001 C-K

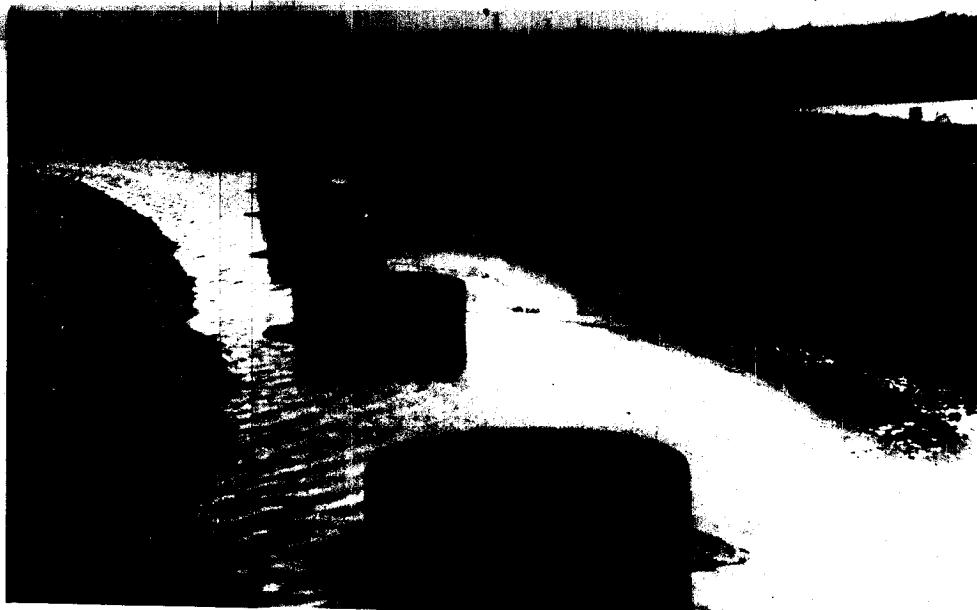
KINGSTON STREAM

1981



(1)

Vegetative growth
on dike slopes



(2)

Standard spillways/
Skimmers in stilling
pond

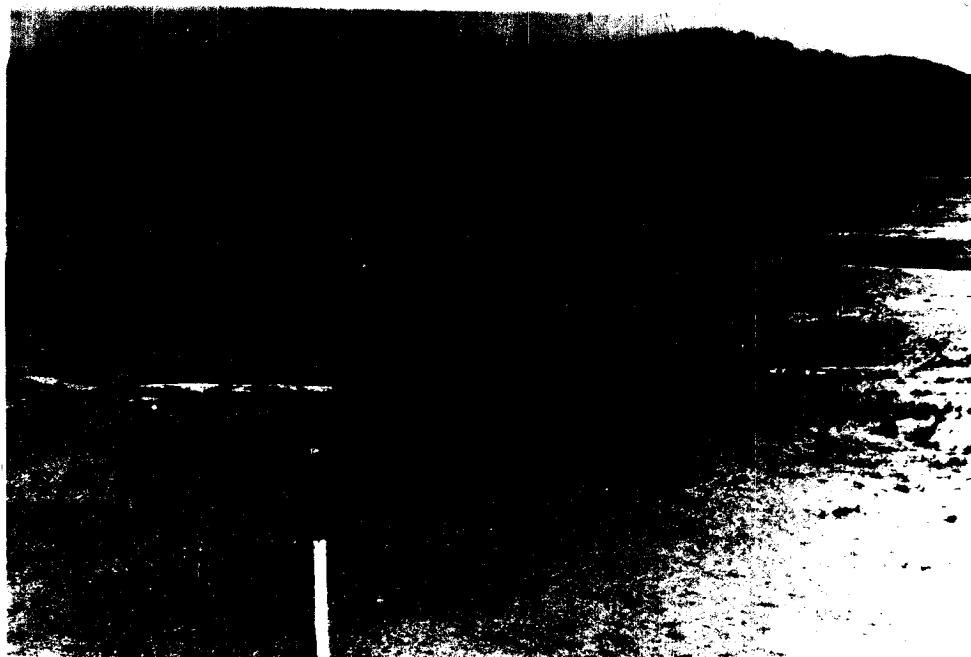
Kingston Steam Pl.

1981



(3)

Outlet structure-
ash pond discharge
to plant intake
channel



(4)

Plant constructed
spillways/skimmers

KINGSTON STEAM PLANT

195



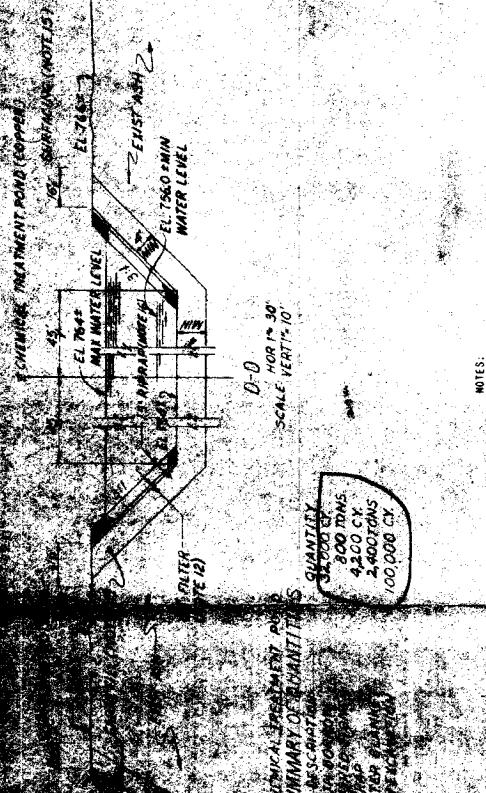
(5)

Discharge from
sheet metal
skimmer/spillway
into stilling pond



(6)

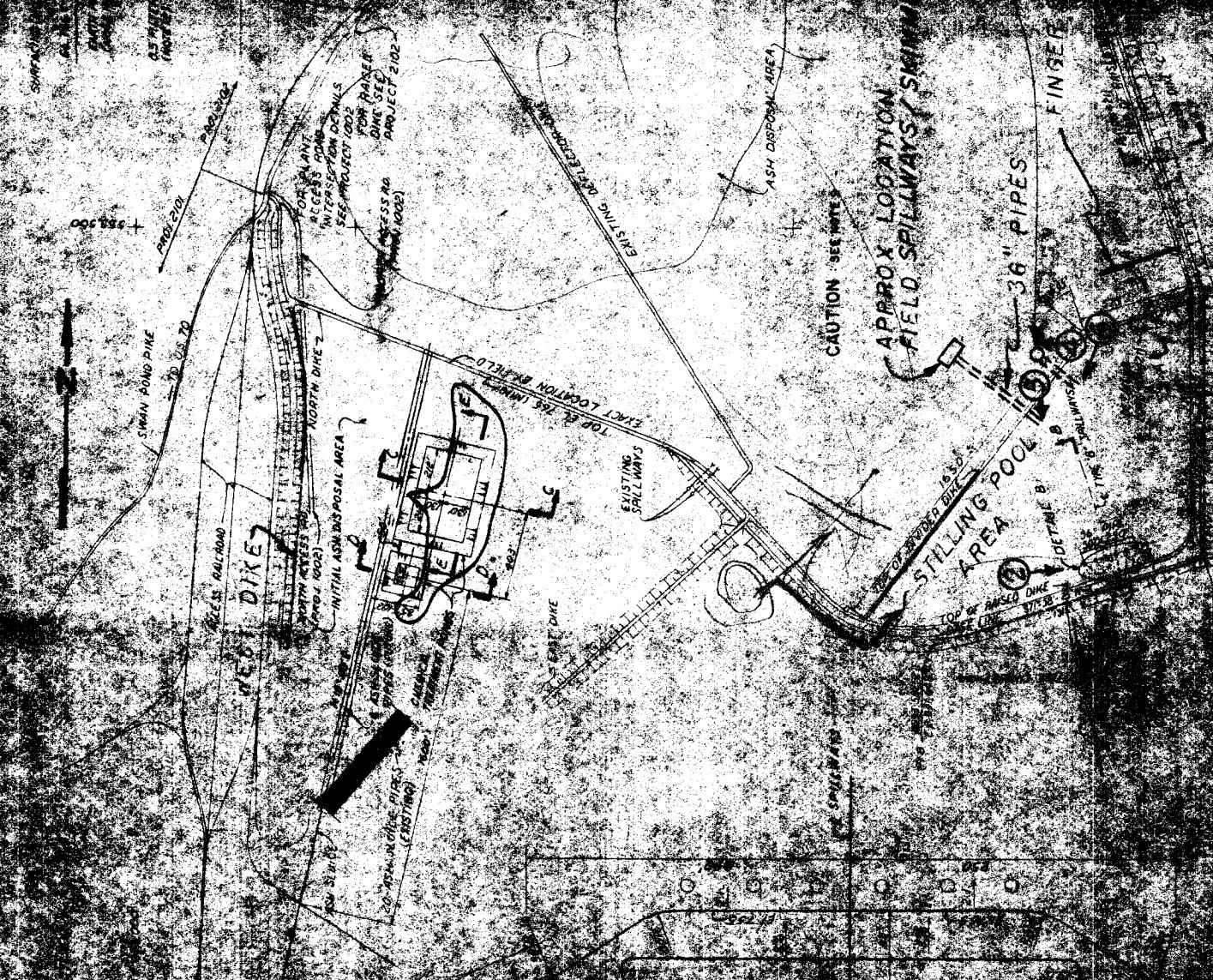
Discharge from
circular skimmer/
spillway into
stilling pond



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**ASH POND DIKE
PLAN - RAISING ASH DISPOSAL
ABEA DIKE**

KINGSTON STEAM PLANT
TENNESSEE VALLEY AUTHORITY
Division of Hydroelectric Power



TVA 00005803

STATES GOVERNMENT

memorandum

TENNESSEE VALLEY AUTHORITY

CDB '81 0422 006

NFB

Frank D. Stansberry, Head Civil Engineer (Site Development, Highway, Railroad, and Bridge Design), W3A51 C-K

M : Ronald D. Powell, Civil Engineer (Site Development, Highway, and Railroad Design), W3A25 C-K

E : April 22, 1981

JECT: INTERIM DISPOSAL AREA INSPECTION

Plant: Kingston Steam Plant Area: Ash Disposal Area

Date of last annual inspection: September 18, 1980 (CDB 801014 003)

Date of this inspection: April 15, 1981 Weather: Clear and cool

Inspected by: Ronald Powell (EN DES) Coy Woods (Yard Operations Supervisor)

Terry Manseill (F&H PR)

Virgil Hutchinson (F&H PR)

Discussed with: Coy Woods (Yard Operations Supervisor)

	Excellent	Good	Poor
General condition of perimeter dikes		X	
Vegetative cover on slopes			X ¹
Condition of standard skimmers and spillways		X	
Condition of outlet structure and channel		X	
General condition of divider dike		X ²	

Signs of loss of ash? Yes X No

Has action been taken on recommendations of annual inspection report? Yes X No

Comments: No action has been taken on the recommendation to fertilize and reseed the dike slopes. Mr. Woods plans to act on that recommendation this spring.

Comments: ¹Vegetative cover on the dike slopes is generally sparse with some minor erosion gullies present. Recommendation for repair was made in last annual inspection report.

²The new skimmer (constructed by plant personnel for discharges into the stilling pool) seems to be functioning fully adequate.

H. W. Burnett
for Ronald D. Powell

8 RDP:TLT

FDS cc: G. L. Buchanan, W3C126 C-K

STATES GOVERNMENT

memorandum

TENNESSEE VALLEY AUTHORITY

CDB '81 0422 006

HFB

Frank D. Stansberry, Head Civil Engineer (Site Development, Highway, Railroad, and Bridge Design), W3A51 C-K

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