State of Tennessee
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
KNOXVILLE ENVIRONMENTAL FIELD OFFICE
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August 24, 2015

Mr. Sam W. Hixson
Tennessee Valley Authority
1101 Market Street, BR4a
Chattanooga, Tennessee 37402

RE: IDL 01 103 0220 TVA Bull Run Fossil Plant (BRF), Anderson County
Part II Permit Application
Hydrogeologic Site Investigation, CCP Proposed Landfill

Dear Mr. Hixson:

The Division of Solid Waste Management (Division) has received the subject report and conducted its initial completeness review. The Division finds the investigation and report to be complete in accordance with Rule 0400-11-01-.04 (7). The Division's Hydrogeological Report Completeness Checklist is attached.

Any questions or comments can be directed to Patrick Mulligan of the Knoxville Environmental Field Office at 865.594.5582.

Regards,

Patrick Mulligan, P.G.
Environmental Scientist
Division of Solid Waste Management

R. Awasthi

Revendra Awasthi
Field Office Manager
Division of Solid Waste Management

c. KEFO File
NCO File

Enc.

PART II APPLICATION
HYDROGEOLOGICAL REPORT COMPLETENESS CHECK LIST

Proposed Site and LF Class: TVA Bull Run Fossil Plant CCR IDL 01 103 0220
Submitted by: TVA - AECOM
Original submittal on: 08—07-2015
Revisions submitted on: _____

Item	Yes	No	Comments
Certified by a qualified registered geologist or qualified engineer	X		Report Certification. Page 2. Margaret G. Gilliland, P.G.
Descriptions and/or locations of soil sampling and procedures used	X		Section 3.3 Drilling, Page 7. Section 3.5 Geotechnical Sampling and Lab Analysis – 200 foot grid
Soil classifications (USCS)	X		Section 3.5 Geotechnical Sampling and Lab Analysis. Soil and rock characterized using USCS and ASTM. Appendix D - Geotechnical Site Evaluation Report
Saturated hydraulic conductivity of undisturbed soils to be buffer ASTM D-1587 & D-5084	X		$6.9x10^{-9}$ to $1.1x10^{-6}$ range Table 4.1 Appendix D – Geotechnical Site Evaluation Report
Saturated hydraulic conductivity of remolded soil to be liner & cover ASTM D-698 or D-1557 & D-5084	X		$1.2x10^{-8}$ to $5.1x10^{-7}$ Standard Proctor $1.6x10^{-7}$ to $4.1x10^{-6}$ Modified Proctor Table 4.1 Appendix D – Geotechnical Site Evaluation Report
Description of sampling and analytical procedures used	X		Section 3.3 Drilling, Page 7. Section 3.5 Geotechnical Sampling and Lab Analysis
Water table elevations at time of drilling	X		Moisture content of soils reported on boring logs. Groundwater elevations reported on boring logs where encountered. Appendix C and D.

Reviewed by: Patrick McCoy Signature: _____ Date: 8-24-15

PART II APPLICATION
HYDROGEOLOGICAL REPORT COMPLETENESS CHECK LIST

Water table elevations at least twice more	X		Potentiometric surface presented for four monitoring events. Continuous monitoring otherwise with pressure transducers. Figures 4.5A – 4.5C
Map with surveyed soil borings and boundary of proposed fill area	X		Figure 3.1 Appendix D – Geotechnical Site Evaluation Report
Groundwater flow map	X		Potentiometric maps provided for all f our monitoring events. Figures 4.5A – 4.5C
Groundwater recharge and discharge features	X		Recharge by surface infiltration and localize surface water features. Seeps and ponds noted with minor influence to uppermost water table. Sections 4.3.1 – Groundwater Occurrence and Section 5.1 – Conceptual Site Model
Springs, wells within 1 mile radius	X		Appendix A – Public and Private Water Supply Source Survey
Public water supply within 2 mile radius	X		Appendix A – Public and Private Water Supply Source Survey
Summary of geological and hydrological evaluations	X		Conceptual site model complete and details. Monitoring system proposed. Conceptual design and site geotechnical considerations in Appendix D.

Reviewed by: Patrick Mulloy Signature: P Mulloy Date: 8-24-15