



Tennessee Valley Authority  
Post Office Box 2000  
Soddy Daisy, Tennessee 37384-2000

**Timothy P. Cleary**  
Site Vice President  
Sequoyah Nuclear Plant

December 2, 2009

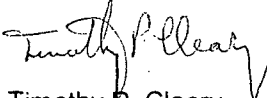
Ms. B. Paulette Barton  
State of Tennessee  
Department of Environment and Conservation  
Division of Water Pollution Control  
Enforcement & Compliance Section  
6<sup>th</sup> Floor, L&C Annex  
401 Church Street  
Nashville, Tennessee 37243-1534

Ms. Barton:

**2009 DISCHARGE MONITORING REPORT – QUALITY ASSURANCE (DMR-QA) STUDY 29  
CORRECTIVE ACTIONS REPORTS**

Please find enclosed the corrective action reports for the 2009 DMR-QA Study 29 Laboratory Performance Evaluation obtained by TVA Sequoyah Nuclear Plant (SQN) and supporting laboratories as required by NPDES Permit TN0026450. Investigations concluded that both "Not Acceptable" results were isolated incidents due to the lack of obvious causes of failure. Remedial samples have also been reanalyzed and were found to be "Acceptable." If you have any questions or need additional information, please contact Ann Hurt at (423) 843-6714 or Stephanie Howard at (423) 843-6700 of Sequoyah's Environmental staff.

Sincerely,

  
Timothy P. Cleary  
Site Vice President  
Sequoyah Nuclear Plant

Enclosure  
cc (Enclosure)

Mr. Ray Terhune  
US EPA Region IV  
SESD/MTSB/QAS  
980 College Station Road  
Athens, Georgia 30605-2720

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Chattanooga Environmental Assistance Center  
Division of Water Pollution Control  
State Office Building, Suite 550  
540 McCallie Avenue  
Chattanooga, Tennessee 37402-2013

JEAS  
NRR



12065 Lebanon Road  
Mt. Juliet, TN 37122  
615-758-5858  
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Fax: 615-758-5859  
[www.envsci.com](http://www.envsci.com)

October 2, 2009

To: All DMR-QA 29 Participants

Re: ESC Non-Filterable Residue (TSS) Failure

ESC has performed a quality review on the DMR-QA 29 PT sample (analyzed in the WP-174 study) concerning Non-Filterable Residue (Total Suspended Solids). We were unable to determine an obvious cause of failure. ESC has since analyzed another PT for TSS with acceptable preliminary results. We believe this to be an isolated incident and have evaluated all QC criteria concerning this matter. The laboratory has performed all appropriate corrective actions and made changes where necessary.

Analyte	Study Date	Reported Value (mg/L)	Assigned Value (mg/L)	Acceptance Limits (mg/L)	Methods	Evaluation
Non-Filterable Residue (TSS)	WP-175 Sep 2009	33.6	30.7	21.7 - 36.7	EPA 160.2 SM 2540D	Acceptable

If you have any questions or need additional information, please contact me.

Sincerely,

Dixie L. Marlin  
QC Manager

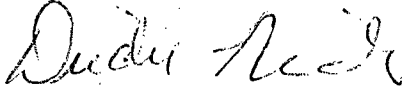
December 3, 2009

**SEQUOYAH NUCLEAR PLANT DMR-QA 29 TOTAL RESIDUAL CHLORINE  
"NOT ACCEPTABLE" RESULTS**

The Sequoyah Nuclear Plant (SQN) Chemistry QA/QC program owner has performed an investigation into the DMR-QA 29 sample concerning Total Residual Chlorine (TRC). SQN was unable to determine an obvious cause of the "not acceptable" results. SQN has since analyzed another sample for TRC with acceptable results. SQN believes this to be an isolated incident and has evaluated all QA/QC criteria concerning this matter. SQN has performed all appropriate corrective actions regarding this "not acceptable" result.

Parameter	Reported Value (mg/L)	Certified Value (mg/L)	Acceptance Limits (mg/L)	Methods	Evaluation
Total Residual Chlorine (TRC)	1.14	1.21	1.06 - 1.36	SM4500Cl G	Acceptable

Sincerely,



Diedre Nida  
SQN Chemistry Operations Manager