



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

August 29, 2005

Environmental Resource Associates  
PT Data Group  
6000 West 54<sup>th</sup> Avenue  
Arvada, Colorado 80002

To Whom It May Concern:

2005 DISCHARGE MONITORING REPORT – QUALITY ASSURANCE (DMR-QA) STUDY 25

The results of the 2005 DMR-QA Study 25 Laboratory Performance Evaluation obtained by TVA Sequoyah Nuclear Plant and supporting Laboratories are enclosed as required by NPDES Permit TN0026450.

Please contact me at (423) 843-6700 if you have any questions or comments.

Sincerely,

Stephanie A. Howard  
Principal Environmental Engineer  
Signatory Authority for  
J. Randy Douet  
Site Vice President  
Sequoyah Nuclear Plant

Enclosure  
cc (Enclosure)

Mr. Mark McAdoo  
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

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

Mr. Wayne Turnbull  
EPA Region IV  
ESD/ASB/LE&QAS  
980 College Station Road  
Athens, Georgia 30605-2720

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

IE25



**NC01230**

**USEPA**  
**DMR-QA 25**

## IDENTIFICATION OF ALL CHEMISTRY & WET LABORATORIES



**ENVIRONMENTAL  
RESOURCE ASSOCIATES,  
The Indian Standard**

USEPA NPDES

**TN0026450**

**Permit Number:**

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**Permit Extension:**

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**Laboratory Name and Address:**

**USEPA  
Assigned  
Lab Code:**

**Name: TVA Central Laboratory Services**

[illegible]

**Address:** 4601 N Access Rd Bldg A

(Page 1)

[illegible]

**Address:** Chattanooga Dist Center

(Page 2)

[illegible]

city: Chattanooga

**State:** TN

**Zip: 37415**

[illegible]

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**TN00016**

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**Please make corrections in boxes above**



ENVIRONMENTAL  
RESOURCE ASSOCIATES, INC.

## DMR-QA 25 Data Reporting Form

NPDES Permit #: TN0026450

Permittee Name: TVA - Sequoyah Nuclear Plant

Laboratory: TVA Sequoyah Nuclear Plant

USEPA Lab Code: TN00999

Customer Number: T2033-02

Anal. No.	Analyte	Result	Units	Method Description	Analysis Date MM/DD/YY	Report* For DMRQA
<i>pH - Method 1</i>						
0019	pH	6.43	S.U.	EPA 150.1	08/02/05	<input checked="" type="checkbox"/>
<i>Total Residual Chlorine - Method 1</i>						
0098	Total Residual Chlorine	1.17	mg/L	EPA 330.4	07/14/05	<input checked="" type="checkbox"/>

**\* Permittees**

If using for DMR-QA 25, place an "X" in the box to the right of each analyte that is required in routine NPDES monitoring and should be included on the final permittee report.



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RESOURCE ASSOCIATES, INC.

## DMR-QA 25 Data Reporting Form

NPDES Permit #: TN0026450

Permittee Name: TVA - Sequoyah Nuclear Plant

Laboratory: Environmental Testing Solutions, Inc.

USEPA Lab Code: NC01230

Customer Number: E5597-01

Anal. No.	Analyte	Result	Units	Method Description	Analysis Date MM/DD/YY	Report* For DMRQA
<b><i>Ceriodaphnia dubia (EPA Test Code 21) - Method 1</i></b>						
0767	Ceriodaphnia - MHSF - IC25 Reproduction	57.2	%	EPA1002	06/21/05	<input checked="" type="checkbox"/>
<b><i>Fathead minnow (EPA Test Code 15) - Method 1</i></b>						
0808	Fathead minnow - MHSF - IC25 (ON) Growth	32.0	%	EPA1000	06/21/05	<input checked="" type="checkbox"/>

**\* Permittees**

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RESOURCE ASSOCIATES, INC.

## DMR-QA 25 Data Reporting Form

NPDES Permit #: TN0026450

Permittee Name: TVA - Sequoyah Nuclear Plant

Laboratory: TVA Central Laboratory Services

USEPA Lab Code: TN00016

Customer Number: T2033-01

Anal. No.	Analyte	Result	Units	Method Description	Analysis Date MM/DD/YY	Report* For DMRQA
<b>Complex Nutrients - Method 1</b>						
0035	Total phosphorus as P	2.72	mg/L	EPA 365.4	06/30/05	<input checked="" type="checkbox"/>
<b>Grease and Oil - Method 1</b>						
0104	Grease & Oil (Gravimetric)	38	mg/L	EPA 1664A	07/06/05	<input checked="" type="checkbox"/>
<b>Hardness - Method 1</b>						
0072	Non-Filterable Residue (TSS)	55	mg/L	EPA 160.2	06/16/05	<input checked="" type="checkbox"/>
<b>Trace Metals - Method 1</b>						
1025	Boron	1430	µg/L	EPA 200.7	06/22/05	<input checked="" type="checkbox"/>
0007	Copper	431	µg/L	EPA 220.2	06/21/05	<input checked="" type="checkbox"/>
0008	Iron	317	µg/L	EPA 200.7	06/22/05	<input checked="" type="checkbox"/>

**\* Permittees**

If using for DMR-QA 25, place an "X" in the box to the right of each analyte that is required in routine NPDES monitoring and should be included on the final permittee report.

Permittee: TVA-SEQUOYAH NUCLEAR  
PLANT  
Permit Number: TN0026450

### Analyte Checklist DMR-QA Study 25

NPDES Testing Requirement	Test Sample Ordered	Test Substance	Test Completed
<input type="checkbox"/>	<input type="checkbox"/>	Aluminum	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Arsenic	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Cadmium	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Chromium	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Cobalt	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Copper	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Iron	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Lead	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Manganese	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Mercury	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Nickel	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Selenium	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Vanadium	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Zinc	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Nitrate	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Orthophosphate	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Kjeldahl nitrogen	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Phosphorus	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	COD	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	TOC	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	5-day BOD	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	5-day carbonaceous BOD	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	pH	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total cyanide	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non-filterable residues (TSS)	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Oil and grease	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Total Phenol (by the 4AAP method)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total residual chlorine	<input checked="" type="checkbox"/>

Signed: Stephanie A. Howard Date: 8/29/2005

Contract Laboratory: This check list is to be used according to the instructions provided by the permittee.

Permittee: Return this check list with the final package sent to your regulatory authority.

→ PRINCIPAL ENVIRONMENTAL ENGINEER  
SIGNATORY AUTHORITY FOR J. RANDY DOUET  
SITE VICE PRESIDENT  
SEQUOYAH NUCLEAR PLANT