

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

August 24, 2018

Ms. Barbara Loudermilk
State of Tennessee
Department of Environment and Conservation
Division of Water Resources
Compliance & Enforcement Unit
William R. Snodgrass TN Tower
312 Rosa Parks Blvd. 11th Floor
Nashville. Tennessee 37243

Ms. Loudermilk:

TENNESSEE VALLEY AUTHORITY (TVA) - SEQUOYAH NUCLEAR PLANT (SQN) - NPDES PERMIT NO. TN0026450 - DISCHARGE MONITORING REPORT QUALITY ASSURANCE (DMR-QA) STUDY 38 -- PROVIDER-GRADED TEST RESULTS

Please find enclosed the provider-graded test results and checklists for the 2018 DMR-QA Study 38 Laboratory Performance Evaluation. These results were obtained by TVA Sequoyah Nuclear Plant and supporting laboratories as required by NPDES Permit TN0026450.

If you have any questions or need additional information, please contact Millicent Garland at (423) 843-6714 of Sequoyah's Environmental staff.

Sincerely,

Anthony L. Williams Site Vice President Seguoyah Nuclear Plant

Enclosure cc (Enclosure) Chattanooga Environmental Field Office Division of Water Pollution Control 1301 Riverfront Parkway, #206 Chattanooga, Tennessee 37402-2013

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

> IE25 DO30 NRR



United States Environmental Protection Agency

Office of Enforcement and Compliance Assurance 1200 Pennsylvania Ave NW, Mail Code 2227A Washington, DC 20460

DMR-QA Study 38

(This data is collected under the authority of Section 308 of the Clean Water Act.)

NPDES Permittee Data Report Form

Attention: Follow the instructions on the previous page to complete this form and submit data for evaluation.

Due August 31, 2018	State	NPDES Permit Number	Permit Extension
,	TN	0026450	
Permittee Name			
TVA - Sequoyah Nuclear Plant			
Current Permittee Mailing Address			
P.O. Box 2000, Mailstop - OPS 4A-SQN			
City			ip Code
Soddy-Daisy		TN 3	7384
Phone Number Fax Number	er	E-mail	
+1 (423) 843-7001		alwilliams12@tva.gov	
Optional: If WP Study was used, list PT Provider na	me(s):	Optional: WP Study Nun	nber(s)
•	lete and Accurate D	ata by July 6, 2018 Receiv	ved a Graded Report by August 3, 2
Yes 🔀 No 🗌 Yes	⊠ No		Yes 🗵 No 📋
Yes 🛛 No 🗌 Yes Certification	No by Permit Holder (as per 40 CFR S	or Authorized Representative	Yes X No 🗍
Yes 🔀 No 🗌 Yes	No a by Permit Holder (as per 40 CFR stall attachments were gather and evaluate the sponsible for gathering fach reported value wance monitoring data compared our results (FAL I am aware that the sponsible for sponsible for gathering data compared our results (FAL I am aware that the sponsible for sponsible	or Authorized Representative section 122.22) prepared under my direction or some information submitted. Based go the information, the information as produced from a single analytic required under our National Pollic with results from independent a	Yes No Department No
Certification certify under penalty of law that this document and designed to assure that qualified personnel properly who manage the system, or those persons directly resknowledge and belief, true, accurate, and complete. Evoutinely performs these analyses to produce complicity permit. Neither I nor any of my subordinates aboratory before we reported our results to the U.S.E.	No a by Permit Holder (as per 40 CFR stall attachments were gather and evaluate the sponsible for gathering fach reported value wance monitoring data compared our results (FAL I am aware that the sponsible for sponsible for gathering data compared our results (FAL I am aware that the sponsible for sponsible	or Authorized Representative section 122.22) prepared under my direction or some information submitted. Based go the information, the information as produced from a single analytic required under our National Pollic with results from independent a	Yes No Department No
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EPA 6400-01 Rev. 1-18. Previous editions are obsolete.



United States Environmental Protection Agency

Office of Enforcement and Compliance Assurance 1200 Pennsylvania Ave NW, Mail Code 2227A Washington, DC 20460

DMR-QA Study 38

(This data is collected under the authority of Section 308 of the Clean Water Act.)

Permittee Name	State	NPDES Permit No.			Permit Extension		
TVA-SQN			TN0026450				
Identification of	all CHEM, MICRO and WET labo	ratories who pe	rforme	d analy	ses for	this pe	rmit
Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State- certified
			Chem	Micro	WET	туре	Lab**
Pace Analytical	2225 Riverside Drive Asheville, NC 28804	NC00030	×			С	X
TVA - Sequoyah Nuclear Plant	P.O. Box 2000 Mailstop: OPS - 5N Soddy-Daisy, TN 37384 - 2000	TN00999	X			F	\boxtimes
Environmental Testing Solutions	351 Depot Street Asheville, NC 28801	NC01230			X	С	\boxtimes
Pace Analytical	9800 Kincey Avenue Suite 100 Huntersville, NC 28078	NC00014	X			С	\boxtimes
	C = Commercial F = Federal G = Logage 2 (Frequently Asked Questions):						

If you need additional space, please make a copy of this page for additional laboratories.

Chemistry/Microbiology Analyte Checklist DMR-QA Study 38

[Method Number	Laborator	y's Graded Result	Analyte determined by state-certified lab*	
Analyte Test	Test Required	Used (optional)	Acceptable	Not Acceptable (Corrective Action Required)		
licrobiology						
. coli., MF or MPN						
ecal Coliform, MF or MPN						
otal Coliform, MF or MPN						
race Metals						
luminum						
Intimony						
Arsenic						
Barium						
Beryllium			——— — ——		<u>_</u>	
admium						
Thromium, total	 			 	 	
Chromium, hexavalent	 				 	
Cobalt	 					
	ᅳᄖᆍ				 	
Copper	┝──╬╾┙		-	 	├──	
ron	├──				├	
ead	 		<u>_</u>		 	
Manganese	├ ──- <u> </u>		<u>_</u>		├	
Mercury			<u>_</u>		<u> </u>	
Mercury (Low Level)						
Molybdenum						
Nickel						
Selenium						
Silver		-	Till Till Till Till Till Till Till Till			
Thallium				<u> </u>		
Vanadium	 				 	
Zinc	 			 	 	
Demands					<u> </u>	
5-day BOD		<u> </u>			T	
5-day Carbonaceous BOD	├──				 	
COD	 			- 	├────────────────────────────────────	
TOC	├── ┼┤ ─┤			- ├	 	
Minerals			<u></u>		L	
					T	
Alkalinity, total (CaCO3)	Ш.				<u> </u>	
Chloride						
Fluoride						
Hardness, total (CaCO3)			П			
Specific conductance (25°C)						
Sulfate			 -		┼┈┈┼┈┈	
Total Dissolved Solids (180°C)	├─	 			 	
Nutrients	<u> </u>	ll		L_	L	
Ammonia as N						
	 		<u>-</u>			
Nitrate as N	├─				├──-	
Nitrite as N	<u> </u>			<u> </u>	┗	
Orthophosphate as P						
Total Kjeldahl-Nitrogen as N						
Total Phosphorus as P						
Misc. Analytes						
Non-Filterable Residue (TSS)						
Oil and Grease	×		×		×	
Н						
Total Cyanide						
Total Phenolics (4-AAP)	 				 	
Total Residual Chloriñe	, 		F		 	
Total Residual Chlorine (Low Level)	 			 	┼──┼	
Settleable Solids	/ 	 	/	- 	 	
Turbidity	 	 /- 	 	 	 	
	<u> </u>	l			8 23/18	
ame 2	y Will	– Signature		Date	9100102	

Chemistry/Microbiology Analyte Checklist DMR-QA Study 38

		Method Number	Laborato	ry's Graded Result	Analyte determined by	
Analyte Test	Test Required	Used (optional)	Acceptable	Not Acceptable (Corrective Action Required)	state-certified lab*	
Microbiology						
E. coli., MF or MPN			<u> </u>		<u> </u>	
Fecal Coliform, MF or MPN			<u> </u>			
Total Coliform, MF or MPN			<u> </u>		<u> </u>	
Trace Metals			ļ			
Aluminum			<u> </u>		<u> </u>	
Antimony				_	<u> </u>	
Arsenic					<u> </u>	
Barium					<u> </u>	
Beryllium			<u> </u>			
Cadmium						
Chromium, total						
Chromium, hexavalent						
Cobalt						
Copper			 	- 	 	
Iron	×		×	 	×	
Lead	 		 	一	T T	
Manganese	 		 		 - 	
Mercury	 		 		 	
Mercury (Low Level)	├── ┼		 			
Molybdenum	 		 		 	
	 		├			
Nickel	 		├		┼	
Selenium	├ ── <u></u>		├		╀	
Silver	<u> </u>		<u> </u>		<u> </u>	
Thallium						
Vanadium			<u> </u>			
Zinc						
Demands						
5-day BOD						
5-day Carbonaceous BOD						
COD						
TOC						
Minerals	·		<u> </u>			
Alkalinity, total (CaCO ₃)			Т		Τ	
Chloride			 		+	
Fluoride	├ ── ├──		十一一		十一一片	
						
Hardness, total (CaCO₃)			╀		 	
Specific conductance (25°C)	<u> </u>		<u> </u>		<u> </u>	
Sulfate			<u> </u>			
Total Dissolved Solids (180°C)						
Nutrients						
Ammonia as N						
Nitrate as N						
Nitrite as N						
Orthophosphate as P						
Total Kjeldahl-Nitrogen as N						
Total Phosphorus as P						
Misc. Analytes						
Non-Filterable Residue (TSS)	×		×		×	
Oil and Grease						
pH			 -		 	
Total Cyanide			 	<u> </u>	 	
Total Phenolics (4-AAP)	 		 		 	
Total Residual Chlorine	 				十一一片	
Total Residual Chlorine (Low Level)	 	<u> </u>	+>	 	+ 	
Settleable Solids	 	 	/			
Turbidity	 	 	┪╸			
Name Awardowy h	Mians	Signature		Date	8/23/18	
* See Footnote on page 2.			Page 12	Complete a separat	e checklist for EACH lab	

WET Organisms/Test Conditions/End Points Checklist DMRQA38

		DMRQA38	Γ	Laboratory		
Analyte Number	Organism / Conditions	End Points	Test Required	Acceptable	Not Acceptable (Corrective Action Required)	Analyte determined by state-certified Lab*
Test Code	e 13 (refer to EPA Method 2000.0)		<u> </u>			
754	Fathead minnow (Pimephales promelas) - MHSF 25°C	LC50		<u> </u>		
Test Code	e 14 (refer to EPA Method 2000.0)					
755	Fathead minnow (Pimephales promelas) - 20% DMW	LC50				
Test Code	e 15 (refer to EPA Method 1000.0)					İ
756	Fathead minnow (Pimephales promelas) - MHSF	NOEC SURVIVAL		X		
808	Fathead minnow (Pimephales promelas) - MHSF	IC25 (ON) GROWTH		X		
810	Fathead minnow (Pimephales promelas) - MHSF	NOEC (ON) GROWTH		X		
Test Cod	e 16 (refer to EPA Method 1000.0)					
759	Fathead minnow (Pimephales promelas) - 20% DMW	NOEC SURVIVAL				
812	Fathead minnow (Pimephales promelas) - 20% DMW	IC25 (ON) GROWTH				
814	Fathead minnow (Pimephales promelas) - 20% DMW	NOEC (ON) GROWTH	1 7			
	e 19 (refer to EPA Method 2002.0)		+ =		† — — — — — — — — — — — — — — — — — — —	
764	Ceriodaphnia dubia - MHSF 25°C	LC50	 	X	 	
	e 20 (refer to EPA Method 2002.0)		1	 _	 	
765	Ceriodaphnia dubia - 20% DMW 25°C	LC50	+		 	
	e 21 (refer to EPA Method 1002.0)		 		 	
766	Ceriodaphnia dubia - MHSF	NOEC SURVIVAL	+	X		
767	Ceriodaphnia dubia - MHSF	IC25 REPRODUCTION	+	X	 	
768	<u></u>	NOEC REPRODUCTION	 		 	
	Ceriodaphnia dubia - MHSF	NOEC REPRODUCTION	 	X	<u> </u>	
	e 22 (refer to EPA Method 1002.0)	NOEC CHDWA	+	 		
769	Ceriodaphnia dubia - 20% DMW	NOEC SURVIVAL	 	├─ ├	╀──∺──	├
770	Ceriodaphnia dubia - 20% DMW	IC25 REPRODUCTION	1	 	 	
771	Ceriodaphnia dubia - 20% DMW	NOEC REPRODUCTION	 	 	ļ <u> </u>	
	le 32 (refer to EPA Method 2021.0)	1050	+ =	 	1	ļ
788	Daphnia magna - MHSF 25°C	LC50	 	├──	ļ	<u> </u>
L	le 38 (refer to EPA Method 2021.0)		 	<u> </u>	 	
794	Daphnia pulex - MHSF 25°C	LC50	↓ □		ļ	ļ <u></u> .
	le 42 (refer to EPA Method 2007.0)	_	 	 _	ļ	
798	Mysid (Americamysis bahia, Mysidopsis bahia) 25°C	LC50	<u> </u>			
	le 43 (refer to EPA Method 1007.0)					
799	Mysid (Americamysis bahia, Mysidopsis bahia)	NOEC SURVIVAL				
816	Mysid (Americamysis bahia, Mysidopsis bahia)	IC25 (ON) GROWTH	ļ. <u>-</u>			
818	Mysid (Americamysis bahia, Mysidopsis bahia)	NOEC (ON) GROWTH				
Test Cod	le 44 (refer to EPA Method 2006.0)					
803	Inland silverside (Menidia berylina) 25°C	LC50				
Test Cod	le 45 (refer to EPA Method 1006.0)					
824	Inland silverside (Menidia berylina)	NOEC SURVIVAL				
825	Inland silverside (Menidia berylina)	IC25 (ON) GROWTH				
826	Inland silverside (Menidia berylina)	NOEC (ON) GROWTH				
Test Cod	le 46 (refer to EPA Method 2004.0)					
804	Sheepshead minnow (Cyprinodon variegatus) 25°C	LC50				
Test Cod	le 47 (refer to EPA Method 1004.0)					
805	Sheepshead minnow (Cyprinodon variegatus)	NOEC SURVIVAL				
820	Sheepshead minnow (Cyprinodon variegatus)	IC25 (ON) GROWTH				
822	Sheepshead minnow (Cyprinodon variegatus)	NOEC (ON) GROWTH	十言	十 右		
0						

Name /tw/howy Williams

Use a separate checklist for EACH lab used

Chemistry/Microbiology Analyte Checklist DMR-QA Study 38

		Method Number	Laboratory	Analyte determined by		
Analyte Test	Test Required	Used (optional)	Acceptable	Not Acceptable	state-certified lab*	
			Acceptable	(Corrective Action Required)		
Microbiology						
E. coli., MF or MPN				<u> </u>		
Fecal Coliform, MF or MPN				<u> </u>		
Total Coliform, MF or MPN		·	L	_L	[]	
Trace Metals						
Aluminum	L		├ ──		<u> </u>	
Antimony	<u> </u>		├ ─	<u> </u>		
Arsenic	i U		<u> </u>	<u> </u>	 	
Barium	<u> </u>		├ ── 	<u> </u>		
Beryllium	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
Cadmium	Ĭ <u>Ы</u>		<u> </u>	<u> </u>	<u> </u>	
Chromium, total	\ <u>\</u>		<u> </u>	<u> </u>	<u> </u>	
Chromium, hexavalent			<u> </u>	<u> </u>	<u> </u>	
Cobalt			<u> </u>	<u> </u>	<u> </u>	
Copper						
Iron	├ — 🖳 —		<u> </u>	<u> </u>	 	
Lead			<u> </u>	<u> </u>	<u> </u>	
Manganese			ļ <u>.</u>	<u> </u>	<u> </u>	
Mercury			<u> </u>		<u> </u>	
Mercury (Low Level)						
Molybdenum						
Nickel						
Selenium						
Silver						
Thallium				<u> </u>		
Vanadium						
Zinc						
Demands						
5-day BOD					<u> </u>	
5-day Carbonaceous BOD					<u> </u>	
COD			<u> </u>		<u> </u>	
TOC				<u> </u>		
Minerals					 _	
Alkalinity, total (CaCO₃)						
Chloride						
Fluoride						
Hardness, total (CaCO₃)						
Specific conductance (25°C)						
Sulfate					 	
Total Dissolved Solids (180°C)	 		 	 	 	
Nutrients	<u> </u>	<u> </u>	<u> </u>	·· ·	<u> </u>	
Ammonia as N			T P	7 7	T	
Nitrate as N	 				十一一一	
Nitrite as N		 	 	 	┼─────────	
Orthophosphate as P	†		 		十一一片	
Total Kjeldahl-Nitrogen as N		 	 	 	┼──┼	
Total Phosphorus as P	 	 	 	 	十一一	
Misc. Analytes		·	<u> </u>		1	
Non-Filterable Residue (TSS)		[Ţ	
Oil and Grease	1				† -	
pH	×		×		×	
Total Cyanide			1			
Total Phenolics (4-AAP)	T = = = = = = = = = = = = = = = = = = =			T = ==================================	T	
Total Residual Chlorine	×		X	—	×	
Total Residual Chlorine (Low Level)					† 	
Settleable Solids		,		十一之 吉	<u>-</u>	
Turbidity					T ,	
Name ANTHONY WI	GAMS	Signature		Date	8/23/18	
⁶ See Footnote on page 2.			Page 12	Complete a separate	checklist for EACH lab.	