



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

January 9, 2015

Ms. Christina Morgan  
Tennessee Department of Environment  
and Conservation  
Division of Water Resources  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243

Dear Ms. Morgan:

TENNESSEE VALLEY AUTHORITY (TVA) - SEQUOYAH NUCLEAR PLANT (SQN) - NPDES  
PERMIT NO. TN0026450 - DISCHARGE MONITORING REPORT (DMR) FOR December 2014

Enclosed is the December 2014 Discharge Monitoring Report for Sequoyah Nuclear Plant. There were no exceedances during the monitoring period. If you have any questions or need additional information, please contact Millicent Garland by email at [mrmooore@tva.gov](mailto:mrmooore@tva.gov) or by phone at (423) 843-6714.

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Sincerely,

John T. Carlin  
Site Vice President  
Sequoyah Nuclear Plant

Enclosures

cc (Enclosures):

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

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

JE25  
NRR

Name **TVA - SEQUOYAH NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE OPS-5N-SQN)  
**SODDY - DAISY, TN 37384**  
 Facility **TVA - SEQUOYAH NUCLEAR PLANT**  
 Location **HAMILTON COUNTY**

MAJOR (SUBR 01)  
 F - FINAL  
 DIFFUSER DISCHARGE  
 EFFLUENT

**TN0026450** **101 G**  
 PERMIT NUMBER DISCHARGE NUMBER

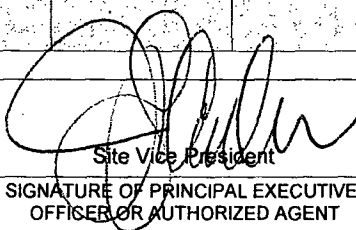
MONITORING PERIOD  
 From **14 12 01** To **14 12 31**

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE 00010 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	26.3	04	0	31 / 31	RCORDR
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	<b>Req. Mon. DAILY MAX</b>	DEG. C.		CONTINUOUS	CALCTD
TEMPERATURE, WATER DEG. CENTIGRADE 00010 Z 0 INSTREAM MONITORING	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	12.8	04	0	31 / 31	MODEL D
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	<b>30.5 DAILY MX</b>	DEG. C.		CONTINUOUS	CALCTD
TEMP. DIFF. BETWEEN SAMP. & UPSTRM DEG.C 00016 1 1 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	3	04	0	31 / 31	CALCTD
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	<b>5 DAILY MX</b>	DEG. C.		CONTINUOUS	CALCTD
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	1723	03	*****	*****	*****	**	0	31 / 31	RCORDR
	PERMIT REQUIREMENT	*****	<b>Req. Mon. DAILY MAX</b>	MGD	*****	*****	*****	****		CONTINUOUS	RCORDR
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	0.022	0.038	19	0	8 / 31	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	<b>0.1 MO AVG</b>	<b>0.1 DAILY MAX</b>	MG/L		FIVE PER WEEK	CALCTD
TEMPERATURE - C, RATE OF CHANGE 82234 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	0	62	*****	*****	*****	**	0	31 / 31	CALCTD
	PERMIT REQUIREMENT	*****	<b>2 DAILY MX</b>	DEG C/HR	*****	*****	*****	****		CONTINUOUS	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  John T. Carlin  Site Vice President  TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			AREA CODE	NUMBER	YEAR	MO	DAY
			423	843-7001	15	01	09

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 No closed mode operation. The following injection occurred: Flogard MS6236 (max calc. conc. was 0.03 mg/L--limit 0.20 mg/L).

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

Name **TVA - SEQUOYAH NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE OPS-5N-SQN)  
**SODDY - DAISY TN 37384**  
 Facility **TVA - SEQUOYAH NUCLEAR PLANT**  
 Location **HAMILTON COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

MAJOR

(SUBR 01)

F - FINAL

BIOMONITORING FOR OUTFALL 101

EFFLUENT

Form Approved.

OMB No. 2040-0004

TN0026450  
 PERMIT NUMBER

101 T  
 DISCHARGE NUMBER

MONITORING PERIOD

From 

YEAR	MO	DAY
14	12	01

 To 

YEAR	MO	DAY
14	12	31

\*\*\* NO DISCHARGE  \*\*\*


NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**	Monitoring Not Required	*****	*****	23			
TRP3B 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	****	43.2 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**	Monitoring Not Required	*****	*****	23			
TRP6C 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	****	43.2 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 John T. Carlin  
 Site Vice President  
 TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
 Site Vice President  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
423	843-7001	15	01	09
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 Toxicity was not sampled in December 2014.

Name **TVA - SEQUOYAH NUCLEAR PLANT**

DISCHARGE MONITORING REPORT (DMR)

(SUBR 01)

OMB No. 2040-0004

Address **P.O. BOX 2000**

**TN0026450**

**103 G**

(INTEROFFICE OPS-5N-SQN)

PERMIT NUMBER

DISCHARGE NUMBER

**SODDY - DAISY, TN 37384**

Facility **TVA - SEQUOYAH NUCLEAR PLANT**

Location **HAMILTON COUNTY**

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
14	12	01	14	12	31

From

To

F - FINAL

LOW VOL. WASTE TREATMENT POND

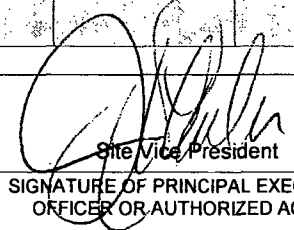
EFFLUENT

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	**	7	*****	9	12	0	16 / 31	GRAB
00400 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	**	6 MINIMUM	*****	9 MAXIMUM	SU		THREE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	20	20	19	0	2 / 31	GRAB
00530 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	**	*****	30 MO AVG	100 DAILY MX	MG/L		TWICE/ MONTH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	**	*****	<5	<5	19	0	2 / 31	GRAB
00556 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	**	*****	15 MO AVG	20 DAILY MX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.220	1.402	03	*****	*****	*****	**	0	31 / 31	RCORDR
50050 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon DAILY MX	MGD	*****	*****	*****	**		SEE PERMIT	RCORDR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE		
		423	843-7001	15	01	09
John T. Carlin Site Vice President	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED						

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Name TVA - SEQUOYAH NUCLEAR PLANT  
 Address P.O. BOX 2000  
(INTEROFFICE OPS-5N-SQN)  
SODDY - DAISY, TN 37384  
 Facility TVA - SEQUOYAH NUCLEAR PLANT  
 Location HAMILTON COUNTY

TN0026450			110 G		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
14	12	01	14	12	31

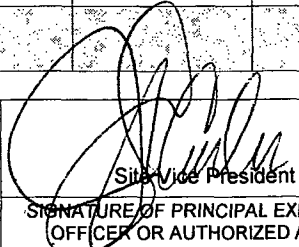
F - FINAL  
RECYCLED COOLING WATER  
EFFLUENT

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
00010 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	*****	REPORT DAILY MX	DEG C		CONTINUOUS	CALCULATED
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
00010 Z 0 INSTREAM MONITORING	PERMIT REQUIREMENT	*****	*****	**	*****	*****	30.5 DAILY MX	DEG C		CONTINUOUS	CALCULATED
TEMP. DIFF. BETWEEN SAMP. & UPSTRM DEG.C	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
00016 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	*****	5 DAILY MX	DEG C		CONTINUOUS	CALCULATED
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*****		03	*****	*****	*****	**			
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	MGD	*****	*****	*****	**		CONTINUOUS	RECORD
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
50060 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	0.1 MO AVG	0.1 DAILY MX	MG/L		Five per Week	CALCULATED
TEMPERATURE - C, RATE OF CHANGE	SAMPLE MEASUREMENT	*****		04	*****	*****	*****	**			
82234 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	2 DAILY MX	DEG C	*****	*****	*****	**		CONTINUOUS	CALCULATED
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  John T. Carlin  Site Vice President  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			AREA CODE	NUMBER	YEAR	MO	DAY
			423	843-7001	15	01	09

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No Discharge this Period

Name **TVA - SEQUOYAH NUCLEAR PLANT**

DISCHARGE MONITORING REPORT (DMR)

(SUBR 01)

OMB No. 2040-0004

Address **P.O. BOX 2000**

**TN0026450**

**110 T**

F - FINAL

(INTEROFFICE OPS-5N-SQN)

PERMIT NUMBER

DISCHARGE NUMBER

RECYCLED COOLING WATER

**SODDY - DAISY, TN 37384**

Facility **TVA - SEQUOYAH NUCLEAR PLANT**

Location **HAMILTON COUNTY**

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
14	12	01	14	12	31

EFFLUENT

\*\*\* NO DISCHARGE  \*\*\*

ATTN:Millicent Garland

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23			
TRP3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	43.2 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23			
TRP6C 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	43.2 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <b>John T. Carlin</b> Site Vice President	Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE				
		423	843-7001	15	01	09		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
No Discharge this Period

Name **TVA - SEQUOYAH NUCLEAR PLANT**

DISCHARGE MONITORING REPORT (DMR)

(SUBR 01)

OMB No. 2040-0004

Address **P.O. BOX 2000**

**TN0026450**

**118 G**

F - FINAL

(INTEROFFICE OPS-5N-SQN)

PERMIT NUMBER

DISCHARGE NUMBER

WASTEWATER & STORM WATER

**SODDY - DAISY, TN 37384**

MONITORING PERIOD

EFFLUENT

Facility **TVA - SEQUOYAH NUCLEAR PLANT**

YEAR	MO	DAY	YEAR	MO	DAY
14	12	01	14	12	31

Location **HAMILTON COUNTY**

From

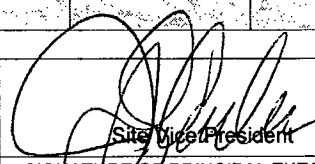
To

\*\*\* NO DISCHARGE  \*\*\*

ATTN:Millicent Garland

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO) 00300 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	19			
	PERMIT REQUIREMENT	*****	*****	***	2 MINIMUM	*****	*****	MG/L		TWICE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	*****	19			
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	100 DAILY MX	MG/L		TWICE/ WEEK	GRAB
SOLIDS, SETTLEABLE 00545 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	*****	25			
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	1 DAILY MX	ML/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT			03	*****	*****	*****	**			
	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*		ONCE/ BATCH	ESTIMA
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  John T. Carlin  Site Vice President  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	843-7001	15	01	09
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 During this reporting period, there has been no flow from the Dredge Pond other than that resulting from rainfall. No Discharge this Period