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

September 13, 2007

State of Tennessee Department of Environment and Conservation Division of Water Pollution Control Enforcement & Compliance Section 6th Floor, L & C Annex 401 Church Street Nashville, Tennessee 37243-1534

Dear Mr. Patrick Cromer:

SEQUOYAH NUCLEAR PLANT - DISCHARGE MONITORING REPORT FOR AUGUST 2007

Enclosed is the August 2007 Discharge Monitoring Report for Sequoyah Nuclear Plant. Please contact me at (423) 843-6700 if you have any questions or comments.

Sincerely,

Stephanie

Stephanie A. Howard Principal Environmental Engineer Signatory Authority for Timothy P. Cleary Site Vice President Sequoyah Nuclear Plant

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

> U.S. Nuclear Regulatory Commission ATTN: Document Contro! Desk Washington, D.C. 20555

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PERMITTEE NAME: ADDRESS (Include For Name TVA - SEQUOYAH NUCLE) Address P.O. BOX 2000	f Different) 	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR DISCHARGE MONITORING REPORT (DMR) (SUBR 01) TN0026450 101 G F - FINAL						Form Approved. OMB No. 2040-0004			
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Facility TVA - SEQUOYAH NUCLEAR F							EFFLUENT				
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PH	SAMPLE MEASUREMENT	******	******	**	7.3	******	8.1	12	0	5/31	GRAB
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Site Vice President	information, the i accurate, and co	information submitted is , mplete. I am aware that t	to the best of my knowled here are significant penalt e and imprisonment for kn	lge and belief, lies for submitt	true, ing false SIGN	ATURE OF PRINC			3-6700 JMBER		09 13 MO DAY
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No closed mode operation. The following information is included in an attachment: CCW data.

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August 2007 DMR Attachment

August 2007 CCW Data

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CCW TRENCH				······
Date/Time Collected	Extractable Petroleum Hydrocarbons	Analysis Date/Time	Analyst	Method
08/13/2007 @ 0835	0.21mg/L	08/17/2007 @ 1813	SRE	EPA 8015
CCW CHANNEL				
Date/Time Collected	Extractable Petroleum Hydrocarbons	Analysis Date/Time	Analyst	Method
08/13/2007 @ 0830	<0.10 mg/L	08/17/2007 @ 1834	SRE	EPA 8015

PERMITTEE NAME/ADDRESS (Include Fa Name TVA - SEQUOYAH NUCLEA Address P.O. BOX 2000 (INTEROFFICE SB-2A)	Different)	DISC TNO PERMI	HARGE MC 026450 T NUMBER MONI	TORING PERIO	MAJOR (SUBR 01) F - FINAL DIFFUSER DISCH EFFLUENT	Form Approved. OMB No. 2040-0004					
ATTN: Stephanie A. Howard	·		From 07	MO DA 01		To 07 08 31 *** NO DISCHA] ***		
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Timothy P. Cleary Site Vice President	persons who man information, the in	age the system, or those formation submitted is ,	on submitted. Based on m persons directly respons to the best of my knowled here are significant penalt	ible for gatheri ge and belief, t	ng the P	rincipal Environme	ental Engineer	423 8 I	843-6700	07	09 13
TYPED OR PRINTED			and imprisonment for kn			FFICER OR AUTHO		AREA CODE	NUMBER	YEAR	MO DAY

The following injections occured: 1. MSW-101 (max. calc. conc. was 0.091mg/L--limit 0.2mg/L) 2. Biodetergent 73551 (max. calc. conc. was 0.017mg/L--limit 2.0mg/L) 3. H-150M (max. calc. conc. was 0.036mg/L--limit 0.050mg/L) 4. H-150M (low detection level analytical method was <0.020mg/L--limit 0.050mg/L)

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>ERMITTEE NAME/ADDRESS (Include Fa Name TVA - SEQUOYAH NUCLEA Address P.O. BOX 2000	R PLANT	if Different) 			ARGE ELIMINATION SY INITORING REPORT	MAJOR Form Approved (SUBR 01) OMB No. 2040- F - FINAL BIOMONITORING FOR OUTFALL 101					
FacilityTVA - SEQUOYAH NUCLEAR PI LocationHAMILTON COUNTY	_ <u></u>		YEAR	MO DA		MO DAY	EFFLUENT		***		
ATTN: Stephanie A. Howard			From 07	08 01	To 07	08 31	NOTE: Read ins	L	e comol	eting this for	n
PARAMETER	· · ·	QUAN	ITITY OR LOADING			QUALITY OR CO			NO. EX	FREQUENCY	
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IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	******	******	**	Monitoring Not Required	*******	******	23			
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Timothy P. Cleary	direction or super property gather	ervision in accordance wit and evaluate the informat	h a system designed to as ion submitted. Based on n	sure that quali ny inquiry of the	person or	phanel	1. Heward			- +_	
Site Vice President	information, the accurate, and co	information submitted is , omplete. I am aware that t	Persons directly respons to the best of my knowled here are significant penalt and imprisonment for kn	ge and belief, t lies for submitti	ng false SIGN		IPAL EXECUTIVE		3-6700		09 13
TYPED OR PRINTED		using the possibility of the				FICER OR AUTH		AREA NU CODE	IMBER	YEAR	MO DAY

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

Toxicity was not sampled in August 2007

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ERMITTEE NAME/ADDRESS (Include F Jame TVA - SEQUOYAH NUCLE		f Different) 	DIS		ARGE ELIMINATION S		MAJOR (SUBR 01) F - FINAL		Form Approved. OMB No. 2040-0004			
				T NUMBER	DISCHAF	GE NUMBER	METAL CLEANING	G WASTE PO	DND			
acility TVA - SEQUOYAH NUCLEAR I	<u>PLANT</u>				TORING PERIOD		EFFLUENT					
TTN Stephanie A Howard			From 07	MQ DA 08 0'		MO DAY 08 31	*** NO DISCHA					
PARAMETER	ж	QUAN	TITY OR LOADING		1	QUALITY OR CO	NOTE: Read in		NO.	FREQUENCY OF	SAMPLE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	ANALYSIS	TYPE	
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FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			03	******	******	*******	**				
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT.	REPORT MO AVG	REPORT DAILY MX	MGD	******** *********	*****	*******			DAILY	CALCTD	
NAME/TITLE PRINCIPAL EXECUTIVE OF		enalty of law that this docu				$\cdot \cap$		TELEPH	ONE		DATE	
Timothy P. Cleary	properly gather a	nd evaluate the information age the system, or those normation submitted is .	on submitted. Based on n persons directly response	ny inquiry of the	ng the	hanie (1) incipal Environm	Howard ental Engineer	423 84	3-6700	07	09 13	
Site Vice President	accurate, and con	mplete. I am aware that the ding the possibility of fine	nere are significant penal	ties for submitti	ng faise SIGN	ATURE OF PRINC	IPAL EXECUTIVE		JMBER		MO DAY	
TYPED OR PRINTED COMMENTS AND EXPLANATION OF ANY								CODE		TEAR		
No Discharge this Period	TOPTIONS [Refere	nice an audunments m	,									

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VERMITTEE NAME/ADDRESS (Include Include Includ	Different) 		MAJOR (SUBR 01) F - FINAL RECYCLED COOLING WATER			Form Approved. OMB No. 2040-0004					
acilityTVA - SEQUOYAH NUCLEAR		·	<u></u>		TORING PERIOD		EFFLUENT		•		
Ocation HAMILTON COUNTY		·	From 07	MO DA 08 01	Y YEAR		*** NO DISCHAF	RGE XX	***		
NTTN: Stephanie A. Howard				00 1 0		00 01	NOTE: Read ins	tructions befor	e compl	eting this for	m
PARAMETER		QUAN	ITITY OR LOADING			QUALITY OR CO	NCENTRATION		NO. EX	FREQUENC	TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	1	ANALYSIS	
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	******	******	04	*****	*******		04	1		
0010 Z 0 0 INSTREAM'MONITORING	PERMIT REQUIREMENT	******	******	DEG C	******	****	38.3 DAILY MX	DEG C		DAILY	GRAB-4
PH	SAMPLE MEASUREMENT	*******	******	**		******		12			
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	6.0 MINIMUM	******	9.0 MAXIMUM	su		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	******	******	**	*******	*****		19			
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	****	****	******	******	30 DAILY MX	MG/L		DAILY	COMPOS
OIL AND GREASE	SAMPLE	******	******	**	******	******		19			
00556 1 0 0 EFFLUENT GROSS VALUE			****	****			15 DAILY MX	MG/L		DAILY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			03	******	******	******	**			
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******					DAILY	CALCTD
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******	**	******	******		19			
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	***	******	******	0.10 DAILY MX	MG/L		WEEKLY	GRAB-4
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT			· 				_			
NAME/TITLE PRINCIPAL EXECUTIVE OF	FFICER I Certify under pe	nalty of law that this doc	ument and all attachment	s were prepare	d under my	· · · ·	danced	TELEPH	ONE		DATE
Timothy P. Cleary	properly gather an persons who man	nd evaluate the informat age the system, or those	h a system designed to as ion submitted. Based on n e persons directly respons	ny inquiry of the sible for gatheri	ing the pr	pName incipal Environm	L.Hervard	400 01			00 40
Site Vice President	accurate and con	nplete I am aware that t	to the best of my knowled here are significant penal e and imprisonment for kn	ties for submitte	ing false SIGN	ATURE OF PRINC	IPAL EXECUTIVE		3-6700		09 13
						FFICER OR AUTHO		AREA NU CODE	JMBER	YEAR	MO DAY
COMMENTS AND EXPLANATION OF AN' No Discharge this Period	T VIULATIONS (Refere	nce all attachments h	iere)								

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PERMITTEE NAME/ADDRESS (Include F Name TVA - SEQUOYAH NUCLE Address P O BOX 2000	f Different) 	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR DISCHARGE MONITORING REPORT (DMR) (SUBR 01)							Form Approved. OMB No. 2040-0004			
<u>(INTEROFFICE SB-2A)</u> SODDY • DAISYTN 37384				026450 T NUMBER	DISCHAR		F - FINAL RECYCLED COOLII	NG WATER				
Facility TVA - SEQUOYAH NUCLEAR I	<u>PLANT</u>		YEAR		TORING PERIOD		EFFLUENT	[
ATTN: Stephanie A. Howard			From 07	08 01		08 31	*** NO DISCHAR(NOTE: Read instr		e compl	eting this form	n.	
PARAMETER		QUAN	ITITY OR LOADING		·	QUALITY OR CON		······		FREQUENCY		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	1	ANALYSIS		
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	******	*****	**		******	*****	23				
TRP3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	45.2 MINIMUM	*****	******	PERCENT		SEMI ANNUAL	COMPOS	
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	. *******	******	**		******	******	23				
TRP6C 1 0 0 EFFLUENT GROSS VALUE		*****	******	****	45.2 MINIMUM	******	******	PERCENT		SEMI ANNUAL	COMPOS	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT]				
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT	<u></u>							- <u></u> -	<u> </u>		
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT				·····							
	PERMIT REQUIREMENT	an tha an an tart art a			· · ·						n taga ta	
 NAME TITLE PRINCIPAL EXECUTIVE OFI					under my		da red	TELEPHO	DNE		ATE	
Timothy P Cleary	properly gather a	ind evaluate the informati	h a system designed to as ion submitted. Based on m persons directly respons	ny inquiry of the		phanel	Henrad-		-			
Site Vice President	information the i accurate, and co	nformation submitted is mplete 1 am aware that the	to the best of my knowled here are significant penalt e and imprisonment for kn	ge and belief, to ses for submitting	rue, ng faise SIGN	incipal Environme IATURE OF PRINCI FFICER OR AUTHO	PAL EXECUTIVE		3-6700		09 13 MO DAY	
TYPED OR PRINTED COMMENTS AND EXPLANATION OF ANY		· · ·						ODE	MBER	YEAR		

No Discharge this Period

EPA Form 3320-1 (REV 3/99) Previous editions may be used

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PERMITTEE NAME ADDRESS include F Name TVA • SEQUOYAH NUCLE	ifferenti را fferenti		CHARGE MC	r (DMR)	AJOR		Form Approved. OMB No. 2040-0004					
Address PO BOX 2000			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · ·		·	SUBR 01)		0.	ND 140. 2040	-0004	
(INTEROFFICE SB-2A)				026450			F - FINAL					
Facility TVA - SEQUOYAH NUCLEAR I			PERM	IT NUMBER	DISCHAR	GE NUMBER	BACKWASH					
Location HAMILTON COUNTY	PLANI			MON	TORING PERIOD	E	FFLUENT					
			YEAR	MO DA		MO DAY	*** NO DISCHAR		***			
ATTN: Stephanie A. Howard			From 07	08 01	1 To 07	08 31	NOTE: Read instructions before completing this form					
					·····			uctions before	-			
PARAMETER		QUAN	ITITY OR LOADING			QUALITY OR CON	CENTRATION		NO. EX	FREQUENCY	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS	1	
DEBRIS, FLOATING (SEVERITY)	SAMPLE	******	******		******	******	0		0	1/31	VISUAL	
	MEASUREMENT			**			0	9A	0		100/12	
01345 1 0 0	PERMIT	******	******	****	******	******	REPORT	PASS=0		SEE	VISUAL	
EFFLUENT GROSS VALUE	REQUIREMENT							FAIL=1		PERMIT	VIOU/12	
	SAMPLE	******			*****	******	MOTOTAL		<u> </u>		MOULAL	
OIL AND GREASE VISUAL	MEASUREMENT		0	94			******	**	0	1/31	VISUAL	
84066 1 0 0	PERMIT	******	REPORT	YES=1	******	******	*****	****		SEE	VISUAL	
EFFLUENT GROSS VALUE	REQUIREMENT			NO=0						PERMIT	1 1 1 1 1 1 1 2 A	
EFFLUENT GRUSS VALUE	SAMPLE	1. 1997 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 19 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	MO TOTAL					<u> </u>	<u> </u>	PERMIT		
	MEASUREMENT											
	PERMIT			1				1	<u> </u>	141-141 - 141	1.5	
	REQUIREMENT											
	SAMPLE	· · · · · · · · · · · · · · · · · · ·		<u> </u>					<u> </u>			
	MEASUREMENT											
	PERMIT			1			-	1				
	REQUIREMENT											
	SAMPLE	l							<u> </u>			
	MEASUREMENT		1									
	PERMIT			1	the figure area and the		the second second	1		and the second		
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	PERMIT	The Contract of the State of th	い、必要ななない	1						A CARAGE S		
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·····	SAMPLE				<u> </u>	r						
	MEASUREMENT											
	PERMIT			{		<u> </u>						
	REQUIREMENT]						ļ		
			J .	L	1	1	1		L	<u> </u>	L	
NAME TITLE PRINCIPAL EXECUTIVE OF		enally of law that this doc			d under my	<u> </u>	dia se l	TELEPHO	ONE		DATE	
Timothy P. Cleary	direction or supe property gather a	invision in accordance wit and evaluate the informat	h a system designed to a ion submitted. Based on i	ssure that quali my inquiry of th	e person or	phaniel						
· · ·	persons who mai	nage the system, or those information submitted is,	e persons directly respon to the best of my knowled	sible for gather	ing the Pr	incipal Environmer	ntal Engineer	423 843	3-6700	07	09 13	
Site Vice President	accurate, and co	mplete. I am aware that t	here are significant penal	ties for submitti	ing false SIGN	ATURE OF PRINCIP	ALEXECUTIVE					
TYPED OR PRINTED	information, inclu	uding the possibility of fin	e and imprisonment for ki	nowing violation	^{13.} OI	FFICER OR AUTHOR	RIZED AGENT	REA NU	MBER	YEAR	MO DAY	

Operations performs visual inspections for floating debris and oil and grease during all backwashes.

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Name TVA - SEQUOYAH NUCLE		t Lifterenti 	NACIONAL POLI DIS	MAJOR SUBR 01)	Form Approved. OMB No. 2040-0004						
Address P O BOX 2000		 		026450			F - FINAL				
SODDY - DAISY TN 37384 Facility TVA - SEQUOYAH NUCLEAR							BACKWASH EFFLUENT				
Location HAMILTON COUNTY			YEAR				*** NO DISCHAR		***		
ATTN: Stephanie A. Howard			From 07	08 01	I To 07	08 31	NOTE: Read instr	J		leting this form	n
PARAMETER		QUAN	ITITY OR LOADING			QUALITY OR CON				FREQUENCY OF ANALYSIS	
		AVERAGE	MAXIMUM		MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALTSIS	
DEBRIS, FLOATING (SEVERITY)	SAMPLE MEASUREMENT	*******	*******	**	*****	******	0	9A	0	1/31	VISUAL
01345 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	******	****	*****	******	REPORT MO TOTAL	PASS=0 FAIL=1		SEE PERMIT	VISUAL
OIL AND GREASE VISUAL	SAMPLE MEASUREMENT	*****	0	94	****	******	******	**	0	1/31	VISUAL
84066 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT MO TOTAL	YES=1 NO=0		******		****		SEE PERMIT	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT					· · · · ·			· · ·		
,	SAMPLE MEASUREMENT		[
	PERMIT REQUIREMENT			•	•			-			
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	PERMIT REQUIREMENT					and the second					
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT			- -		<u> _,,</u>					
NAME/TITLE PRINCIPAL EXECUTIVE OF	FICER Certify under pe	malty of law that this doc	ument and all attachment	s were prepare	d under my	$\frac{1}{1}$		TELEPHO	ONE	D	ATE
Timothy P. Cleary	properly gather a persons who man	nd evaluate the informati hage the system, or those	h a system designed to a on submitted. Based on r persons directly respons to the best of my knowled	ny inquiry of the sible for gatheri	ng the Pri	manie () incipal Environmen	ntal Engineer	423 843	3-6700	07	09 13
Site Vice President	accurate, and cor	mplete. I am aware that th	here are significant penal a and imprisonment for kr	ties for submitti	ng false SIGN	ATURE OF PRINCIP	PAL EXECUTIVE RIZED AGENT		MBER		MO DAY

Operations performs visual inspections for floating debris and oil and grease during all backwashes.

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PERMITTEE NAME/ADDRESS (Include For Name TVA - SEQUOYAH NUCLE) Address P.O. BOX 2000	f Different)	NATIONAL POLLU	(SUBR 01) OMB No. 2040-000								
(INTEROFFICE SB-2A) SODDY - DAISY TN 37384				026450 T_NUMBER	DISCHAR	118 G GE NUMBER	F - FINAL WASTEWATER &	STORM W	ATER		
Facility TVA - SEQUOYAH NUCLEAR F Location HAMILTON COUNTY	<u>PLANT</u>		YEAR		TORING PERIOD						
ATTN: Stephanie A. Howard			From 07	08 01	To 07	To 07 08 31 NOTE: Read in				etina this fo	m.
PARAMETER		QUAN	TITY OR LOADING			QUALITY OR CO				FREQUENC	Y SAMPLE
1		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS	
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	*****	**		******	******	19			
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	2.0 DAILY MN	******	******	MG/L		TWICE/	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	******	**	******	*******		19			
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1	******	****	******	******	100 DAILY MX	MG/L		TWICE/ WEEK	GRAB
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	******	******	**	******	*******		25			
00545 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			****	******	*******	1.0 DAILY MX	ML/L		ONCE/ MONTH	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			03	******	*******	******	**			
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY_MX	MGD	*****	******	******	*		ONCE/ BATCH	
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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NAME/TITLE PRINCIPAL EXECUTIVE OF	direction or supe	rvision in accordance wit	ument and all attachment h a system designed to a ion submitted. Based on r	ssure that quali	fied personnet	phanie (J. Heward	TELEP			
Timothy P. Cleary Site Vice President	persons who ma	nage the system, or those information submitted is .	e persons directly response to the best of my knowled here are significant penal	sible for gatheri Ige and belief,	ing the Pr	, incipal Environn	nental Engineer	423 8	43-6700	07	09 13
TYPED OR PRINTED	information, inclu	uding the possibility of fin	e and imprisonment for kr	nowing violation			IORIZED AGENT	AREA N CODE	NUMBER	YEAR	MO DAY

During this reporting period, there has been no flow from the Dredge Pond other than that resulting from rainfall.

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