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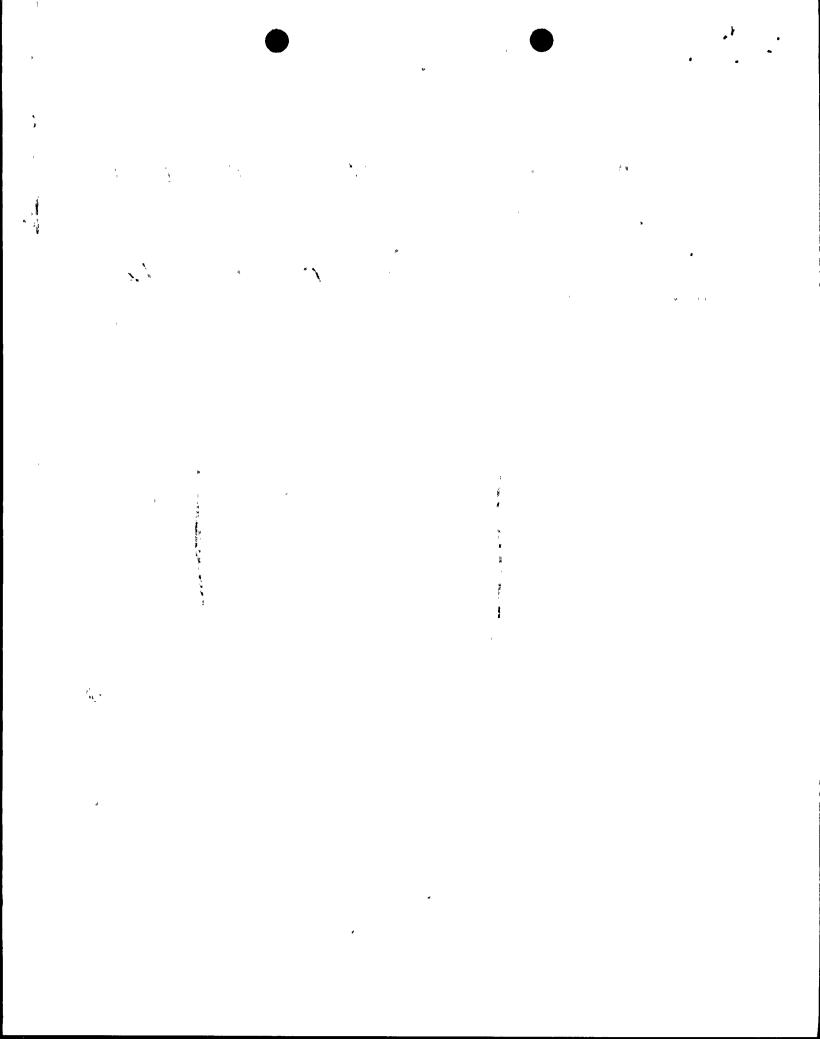
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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT DISCHARGE MONITORING REPORT Tennessee Valley Authority

BROWNS FERRY NUCLEAR PLANT

DSN 101 - Diffuser Discharge Structure

MONTH September 1988

NPDES # AL0022080

_							14, 220 11	HEOOZZOOO
PAF		FLOW	Нq	Amb. Riyere	Rowestream.	Desp. Riyero	Rowestream.	Temperature
AVG			6.0	24hr Av Max	24hr Av Max		Hourly Max	24hr Av Max
MA	XF		9.0		90.0	6 Hrly Rdgs	93.0	10.0
UNI	TS	MGD	s.u.		=	# Rdqs >6	"= ⁻	7=
FRE	a.	Cont.	1/wk	Continuous	Continuous	Hourly	Continuous	Continuous
	1	633.6		81.0	81.8	0	- 81.3	0.9
	2	633.6		80.0	79.9	0	79.9	0.0
	3	633.6		80.1	79.9	0	79.8	-0.1
	4	633.6		79.8	79.1	0	79.2	-0.6
1	5	633.6		79.8	78.9	0	79.2	-0.2
	6	633.6	8.2	78.7	79.0	0	78.3	0.2
	7	633.6		77.9	77.7	0	77.0	0.4
	8	633.6		76.8	76.5	0	76.6	0.2
·	9	633.6		77.6	77.0	0	77.8	0.1
	10	633.6		77.6	77.1	0	77.4	-0.1
	11	633.6		77.1	76.7	0	76.7	-0.2
	12	633.6		77.5	76.7	0	78.0	-0.7
i	13	633.6	8.1	78.3	78.7	0	80.3	. 0.3
	14	633.6		78.9	79.1	0	80.3	0.4
1	15	633.6		78.8	78.9	0	79.5	0.1
	16	633.6		78.8	78.6	0	78.4	0.0
	17	633.6		78.0	77.3	0	78.3	-0.5
ł	18	633.6		78.0	77.5	0	78.2	-0.3
	19	633.6		78.0	77.7	0	77.8	0.0
1	20	633.6	8.2	78.0	77.8	0	78.6	0.2
1	21	633.6		78.0	77.9	0	78.5	0.3
	22	633.6		78.9	78.9	0	79.4	0.4
	23	633.6		78.5	78.7	0	80.0	0.3
	24	633.6		79.0	79.1	0	79.3	0.2
	25	633.6		79.0	78.8	0	79.8	-0.1
-1	26	633.6		79.0	78.8	0	78.9	0.3
	27	633.6	8.3	78.0	78.2	0	78.1	0.4
1	28	633.6		77.4	77.7	0	77.2	0.4
	29	633.6		76.3	77.1	0	76.1	1.7
	30	633.6		78.1	78.2	Ŏ	78.8	0.1
M	AX	633.6	8.3	81.0	81.8	0	81.3	1.7
A	VG_	633.6		78.4	78.3	0	78.6	0/1
M	IN		8.1			* · · · · · · · · · · · · · · · · · · ·		, Sir

I certify under penalty of law that this document and all attachments were prepared under the 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.

Signature of Responsible Official

Original Signed By M. Paul Schmierbach

Date: OCT 2 6 1988

¥ 59 ' , •

DSN 102 - Sedimentation Pond

MONTH	<u>September</u>	<u> 1988</u>			NPDES # AL0022080
PARAM	FLOW	pН	0&G	TSS	-
AVG		MIN. 6.0	15	30	
MAX		9.0	20	100	COMMENTS
UNITS	MGD	s.u.	mq/l	mq/l	
FREQ.	1/RELEASE	1/RELEASE	1/RELEASE	2/RELEASE	-
1					POND OUT OF SERVICE
2					FOR REPAIR 11-2-87.
3			-		
4					
5					
6					
7					
8					
9					
10	· · ·				
11					
12					
13				,	
14					
15					
16					
17				•	•
18					
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20					
21					
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24					
25					
26					
27					
28					
29					
30					-
		<u> </u>		· · · · · · · · · · · · · · · · · · ·	T
MAX					
AVG			<u> </u>	<u> </u>	
MIN			j		
TOTAL	NO DISCHARGE	1			

Signature of Respon	sible Official	0	Date:
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or i."

DSN 103 - Unit 1,2,3 Turbine Station Sump

МОМТН		September	<u> 1988</u>		NPDES # AL0022080
PARAM		FLOW	0&6	TSS	-
AVG			15	30]
MAX			20	100	_ COMMENTS
UN:	TS	MGD	mq/l	mq/1	
FRE		1/WEEK	1/WEEK_	1/WEEK	
	1				
	2	0.121000	〈 5	10	
1	3				
	4				
	5			<u> </u>	
	6				
	7		·····		
	8		<u> </u>		
1	9	0.060000	< 5	6	
Į.	10	1			
1	11				•
	12	•			
	13			-	
	14				
	15				
1	16	0.124000	< 5	10	REPLICATES 0%G <5 TSS 9
	17				
1	18				
	19			<u> </u>	
	20			<u> </u>	
×.	21				
- 74	22				
	23	0.054000	< 5	7	
	24		· · · · · · · · · · · · · · · · · · ·		
	25				
1 *	26				
	27				
	28				
	29				
	30	0.086400	< 5	11	
	AX	0.124000	< 5	11	
	VG.	0.089080	\ \ 5	9	

Sionature	o f	Responsible	Official
Jiy//avu/ e	ω_I	VESHOUSTOTE	011244

Date:	
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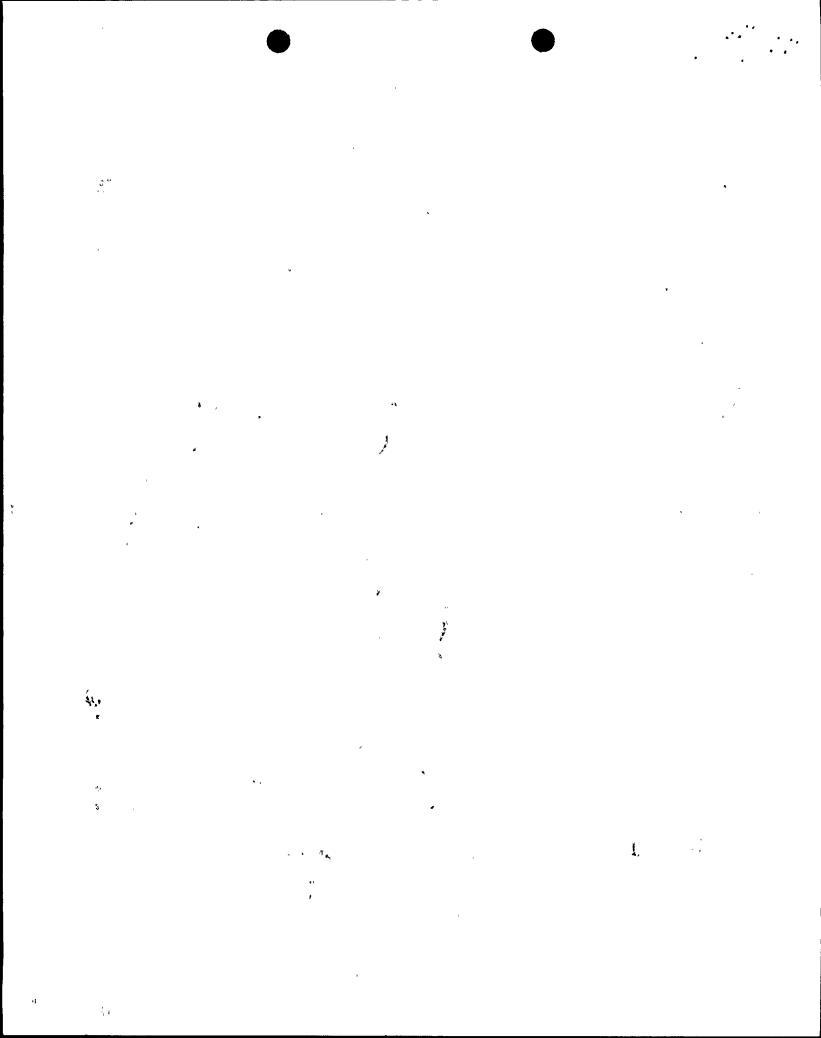
DSN 104 - Liquid Radwaste

MONTH September 1988 NPDES # AL0022080

	. <u>Gebeember</u>	1700	≟			וארטבט	# ALUUZZU8
PARA	M FLOW	O&G	TSS	LDT/0&G	LDT/TSS	Copper	Iron
AVG		15	30	15	30		
MAX		20	100	20	100	1.0	1.0
JNITS		mq/L	mq/L	mq/L	mg/L	mg/L-	mg/L
REQ.	1/BATCH	2/wk	2/wk	1/BATCH	1/BATCH	1/BATCH	1/BATCH
	0.055221	< 5	< 1			(1) NA	(1) NA
	2 0.031495	<u> </u>	<u> </u>			7	
	3 0.062863	<u> </u>					
	4 0.069305		<u> </u>				
	5 0.031284	< 5	< 1				
	6 0.029130	<u> </u>	<u> </u>				
	7 0.023984	<u> </u>					
	0.061711	< 5	< 1				
	9 0.031061						
10	0.014829						7
1							
1:		< 5	< 1				
1:	3 0.030705						
1.	4 0.031661						
1:	5 0.062122	< 5	11	6	16		
14	6 0.040970						
1	7 0.031752						
11	B 0.030271						
1	9 0.061871	< 5	< 1				1
2	0.031061						
2	1 0.031061						
2	2 0.022880	〈 5	< 1				
2	3 0.060502						1
2			1	1			1
<u> 2</u>			1				
	6 NO DISCHARGE		1			1	
2		< 5	< 1	†		1	1
2		1	1				1
	9 0.030458	< 5	< 1		 		1
3		1	 	<u> </u>	1	1.	
				<u></u> γ	,	'	
MAX		< 5	11	66	16		
AVG	0.042393	< 5	1 < 2	6	16	1	I

Signature of Responsible Official	Date:
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⁽¹⁾ No chemical metal cleaning solutions used this month.



DSN 105 - Residual Heat Removal Service Water

MONTH		<u>September</u>	<u> 1988</u>		NPDES #	AL0022080
PARAM		FLOW	TEMP	* *	-	
AV	6			•	•	
MA				COMMENTS		
UNI	TS	MGD	πŧ			,
FRE	a.	1/WEEK	1/WEEK	-		
	1					
	2	*		NO DISCHARGE ENTIRE WEEK		
	3					
	4					
	5					
	6					
	7		· · · · · · · · · · · · · · · · · · ·			
	8					
	9	*		NO DISCHARGE ENTIRE WEEK		
	10					
	11					
	12					
	13	·				
i	14					
	15	<u> </u>		NO DISCHARGE ENTIRE WEEK		
	16 17	*		NO DISCHARGE ENTIRE WEEK		
	18				· · · · · · · · · · · · · · · · · · ·	
	19	1	<u> </u>			
	20				····	
	21					
	22		1			
	23	*		NO DISCHARGE ENTIRE WEEK		
	24	h		NO BIOGRAPHICA MATERIAL		
pr.	25		 			
	26					
	27	3	 			
. 4	28	+				;
. :	29					
	30			NO DISCHARGE ENTIRE WEEK		
	V	1				
MA		*	ļ	NO DISCHARGE ENTIRE MONTH		
A	/6	<u> </u>	<u> </u>	I NO DISCHARGE CHITTE MONTH		

S	i	gnature	of	Res	ponsi	ble	Off	'icial	
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Date:

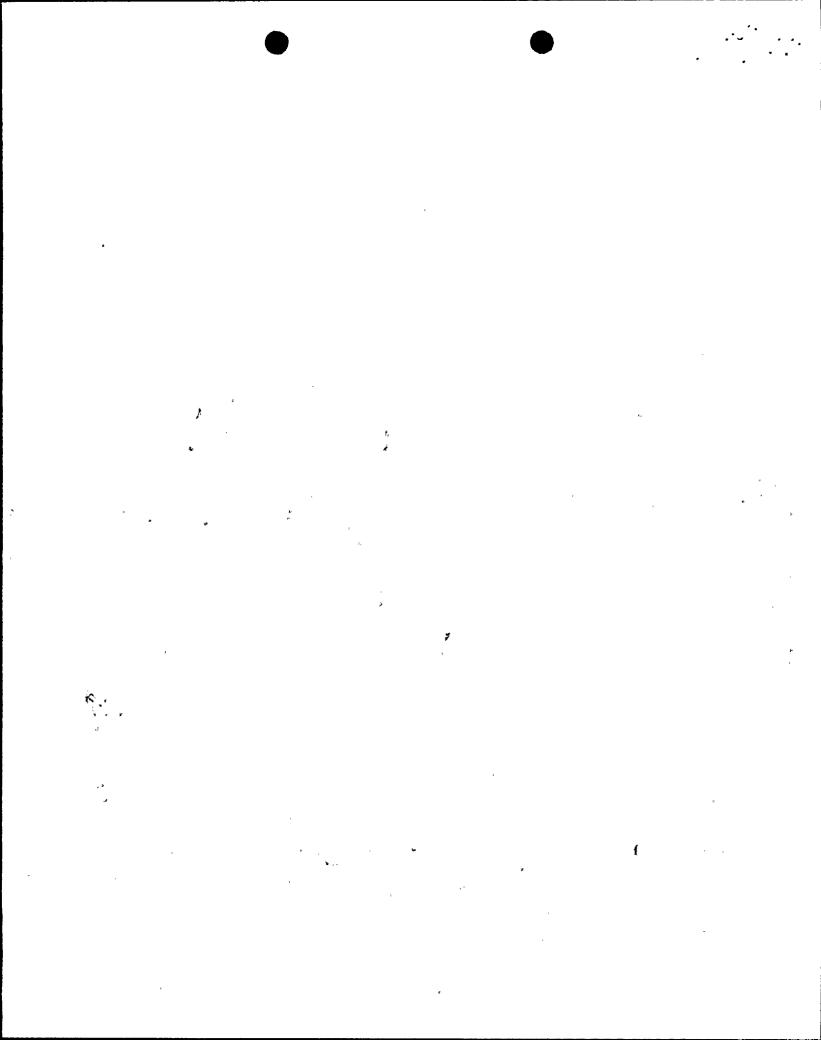
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DSN 106 - Condenser Cooling Water Station Sump

MONT	H <u>September</u>	<u>1988</u>	Pl	NPDES # AL0022080
PARA	M FLOW	0&6	TSS	
AVG		15	30	
MAX		20	100	COMMENTS
UNIT	S MGD	mq/l	mq/l	1
FREQ	. 1/WEEK	1/WEEK	1/WEEK_	
	1 0.000000			DISCHARGE ROUTED TO LINED POND
	2			FOR ENTIRE REPORTING PERIOD.
1 -	3			
	4	<u></u>		
	5			
	6			
	7			
	8 0.000000			
	9		····	
1			····	
1 1				
	2 .			
	3			,
	4			
	5 0.000000			
	6			
1				
	8 9		· · · · · · · · · · · · · · · · · · ·	
			 	
	0			
222	2 0.000000			
	3			
2				
	5			
				,
2	7			
	8			
	9 0.000000			
	0.00000			
MAX				
AVG	0.000000			

Signature of	Responsible	Official
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77	ate		
"	27:P	=	



DSN 107 - Unit 3 Control Bldg.
Drain

MON	ITH	<u>September</u>	1988	9	NPDES # AL0022080
PAF	RAM	FLOW	0&6	TSS	-
AV	7 6		15	30	
MA			20	100	_COMMENTS
UNI	TS	MGD	mq/l	mq/l	
FRE		1/WEEK	1/WEEK	1/WEEK	
	1				
	2				
	3				
	4				
	5				
1	6				
	7	0.001112	< 5	11	
	8				
	9				
	10				
	11				~
	12	•			
1	13				
1	14	0.003000	< 5	7	REPLICATES 0%G <5 TSS 7
	15				
	16				
1	17				
	18		· · · · · · · · · · · · · · · · · · ·		
1	19				
	20				
· . y	21	0.002800	< 5	9	
1 1	22	2. 1			
17.00	23				
- 1 %.	24				
	25		•		
. *	26	-			•
* <u>*</u>	27				
*11	28	0.003000	< 5	14	
1 ,	29		· · ·	***	
1	30				
<u></u>			·		
	XΕ	0.003000	< 5	14	
LA'	VG_	0.002478	< 5	10	

Sionature	o f	Responsible	Official
	.	"""	

Date	:
Date	:

• • S.A. S.A. , , **

DSN 108 - Diesel Bldg. Sump Units 1 & 2

HTMOM	<u>September</u>	<u>1988</u>		NPDES # AL0022080
PARAM	FLOW	0&6	TSS	. •
AVG		15	30	<u>.</u>
MAX		20	100	COMMENTS
UNITS	MGD	mq/1	mq/l	
FREQ.	1/WEEK	1/WEEK	1/WEEK	
1	*			NO DISCHARGE ENTIRE WEEK
2				
3				
4				
5				
6				
7			···	NE DESCRIPTION NECK
8	*			NO DISCHARGE ENTIRE WEEK
9				
10				
11				
12				
13				
14	.1.			NO DISCHARGE ENTIRE WEEK
15	*			NO DISCHARGE ENTIRE WEEK
16 17				
18			<u> </u>	
19				
20				
21				
1 155	*			NO DISCHARGE ENTIRE WEEK
22 23				110 2200111110
24				
25	1			
26			· · · · · · · · · · · · · · · · · · ·	
27	 			
28	· · · · · · · · · · · · · · · · · · ·			
29		<u> </u>		NO DISCHARGE ENTIRE WEEK
30				
MAX			f	
AVG	*			NO DISCHARGE ENTIRE MONTH
HVU	1	L	<u> </u>	I NO DISCUSSOR FIGURE HOUSE

Signature of	Responsible	Official	Date:

i. \$1. 12. 4

DSN 109 - Diesel Bldg. Sump Unit 3

MON	TH	<u>September</u>	<u>1988</u>		NPDES # AL0022080
PAR	AM	FLOW	0&6	, TSS	-
AV	6		15	.30	٠
MA			20	100	COMMENTS
UNI		MGD	mq/l	mq/1	
FRE	a.	1/WEEK	1/WEEK	1/WEEK	~
	1	*			NO DISCHARGE ENTIRE WEEK
1	2				
	3			,	
	4				
	5				
1 [6				
	7				
] [8	*			NO DISCHARGE ENTIRE WEEK
	9				
	10				
	11				
	12			<u> </u>	
	13				
	14				
	15	*			NO DISCHARGE ENTIRE WEEK
	16				-
	17	d.			
	18				
	19	· · · · · · · · · · · · · · · · · · ·			
	20 21	· · · · · · · · · · · · · · · · · · ·			
	21			· · · · · · · · · · · · · · · · · · ·	
	22	*			NO DISCHARGE ENTIRE WEEK
*&	23			<u> </u>	
1 */1	24			<u> </u>	
	25	н			
	26				
] }	27			<u> </u>	
	28		<u> </u>	<u> </u>	
	29	* *	 	<u> </u>	NO DISCHARGE ENTIRE WEEK
لنـــا	30	. ,	<u> </u>	1	
MA	X				
AV		* -			NO DISCHARGE ENTIRE MONTH

Signature	of	<i>Responsible</i>	Official

Dates	•
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DSN 110 - Unit 1 % 2 Office Bldq. Drain

MON	ITH	September	1988		NPDES # AL0022080
PAR	MAS	FLOW	0&6	Tṣs	
AV	6		15	30	1 - 1
MA			20	100	COMMENTS
UNI	TS	MGD	mq/l	mq/l	1
FRE	a.	1/WEEK	1/WEEK	1/WEEK	
	1				
	2				
	3				
	4				
	5				
	6				
·	7	0.000020	< 5	4	
	8			·	
	9				
	10				
	11				
1	12				•
1	13	,			
	14	0.001000	< 5	4	REPLICATES 0%G <5 TSS 28
1	15			4	TSS REPLICATE RESAMPLE
	16				*
	17		WHI		
	18				
	19				
	20 21	0.004500	4 5		
	22	0.001800	< 5	11	
	23	l l			
	24	4	· · · · · · · · · · · · · · · · · · ·		
*	25				
1	26	,			
	27				
1	28 28	0.003000	〈 5	70	<u> </u>
1 ,	29	0.003000		/	
	30				
				L	
M		0.003000	< 5	70	
A	VG	0.001455	< [*] 5	20	

I certify under penalty of law that this document and all attachments were prepared under the 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.

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Signature of	Responsible Official	Date:	

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DSN 111 - Sewage Treatment Lagoon

HTMOM		<u>September</u>	1988		NPDES # AL0022080
PARAM		FLOW	TSS	BODS	-
AVG			90	30	-
MAX				45	COMMENTS
UNITS		MGD	mq/1	mq/l	_
FREQ.		5/WEEK	2/MONTH	2/MONTH	
	1	0.003154			
	2	0.003154			
	3				
	4				
į į	5	0.005515			
	6	0.005515	61	19	
	7	0.003154			
	8	0.003154			
1	9	0.003154			
1	10	1			
	11				
1	12	0.008712			
l	13	0.005515	64	14	
	14	0.003154			
	15	0.005515			
	16	0.024048			
	17				
1	18				
1	19	0.039600	63	13	
1	20	0.031248			
ŀ	21	0.024048			
	22	0.031248			
	23	0.024048	+	•	
1.3	24	* 1			
1161	25		,		
	26	° 0.017856	60	12	
	27	.0.031248)	
	28	0.039600			•
	29	0.049248			
1	30	0.049248			
				40	
MAX		0.049248	64	19	
AVG		0.018688	62	15	

Signature of Responsible Official	Date:

<u>Description of Discharge</u> - DSN 111 - Sewage Treatment System - Sewage overflowed two manholes and discharged to the intake forebay via the yard drainage system. It is estimated that approximately 10,000 gallons of sewage was discharged during the event on September 27, 1988. No samples were taken.

Cause and Period of Noncompliance - While performing excavation work, construction personnel broke a water line resulting in a loss of pressure and an excessive amount of grit in the water main. The grit caused valves on the laboratory fixtures to remain open after water pressure was established. The excessive water flow overwhelmed the sewage air lift pumps causing sewage to back up and overflow the manholes. The period of noncompliance was two hours.

Steps Taken to Reduce, Eliminate, and Prevent Recurrence of Noncomplying Discharge - Upon notification of the discharge environmental personnel installed a portable pump at the manhole in front of the air lift station to assist in relieving the excess flow. The plant drilling, digging and chipping permit will be revised to include approval by environmental engineering. The installation of a sewage overflow monitoring system at the lift station is being studied.