# Executive Summary for Groundwater Drawdown Calculations included in Votgle ESP ER Sections 4.2.2 and 5.2.2 Groundwater Use Impacts During Construction and Operation

In order to determine potential offsite impacts of groundwater drawdown, cumulative well yield was used to calculate drawdown as though it had been pumped from a single onsite well. The well MU-2A location was used, due to its close proximity to the VEGP property boundary (5,700 feet) and because the well has been one of the site's primary production wells.

Data used to input to an analytical distance-drawdown model was taken from VEGP's updated Final Safety Analysis Report (SNC 2005). A Transmissivity value of 158,000 gpd/ft was used. The Storativity value (3.1x10<sup>-4</sup>) is an average of the values listed in Table 2.4.12-8 of the SNC 2005 FSAR calculated for the deeper production wells. Total groundwater use reported to the Georgia Department of Natural Resources by VEGP from 2001 through 2004 averaged 730 gpm. (SNC 2000a,b, 2001a,b, 2002a,b,c, 2003a,b, 2004a,b) This value is considered the total groundwater use value for the existing units. A maximum construction pumping rate of 420 gpm was used (FSAR 2005). The total groundwater use rate for the proposed units is 752 gpm (ESP ER Table 3.3-1).

Therefore, the pumping rate used in the analysis for most of the construction phase is 1,150 gpm (730 + 420 = 1150 gpm). There will be a period, after completion of the first unit but before completion of the second unit, when the pumping rate will include the 730 gpm for the existing units, a construction rate for Unit 4, and an operational rate for Unit 3. For this construction/operational overlap period, the groundwater pumping rate will include the existing rate of 730 gpm, one-half the construction rate or 210 gpm, and one-half the proposed operational rate or 376 gpm. The total for this period will be 1,316 gpm. The pumping rate during the normal operation of all four units will be 1,482 gpm (730 gpm + 752 gpm).

A nonleaky aquifer scenario was used using the Theis equation to simulate site conditions. The equation assumes that the aquifer is homogeneous, isotopic, with negligible recharge and gradient, and that boundary impacts do not occur. The equation was run for each pumping rate scenario described above. The first simulation assessed the the initial pumping rate for Units 1 and 2 plus construction water usage; the second included pumping for Units 1 and 2, the initial startup of one unit, plus construction; and the third assumed the total use for all four units. The drawdown values calculated are very conservative because the pumping times for each of the simulations was initiated as being the start of Unit 1 operations and not adjusted to accommodate when actual changes in pumping rates would occur. Therefore the drawdowns at the property boundary modeled here are the result of a much longer pumping period for each scenario

than will actually occur. The result is a larger drawdown value than would actually be observed, resulting in a very conservative analysis.

Off-normal operations (Table 2.9-1) for the existing units would require approximately 2,300 gpm of groundwater for both units and off-normal operations for both the proposed units would use approximately 3,140 gpm. Off-normal usage for all four units would be 5,540 gpm. However, off-normal operations would likely affect only one unit, therefore SNC believes that groundwater needs for any off-normal operations plus normal operations of the other units can be accomplished within the existing groundwater permit issued by the State of Georgia. Since off-normal operations would be short lived, this scenario has not been modeled. SNC believes that a scenario where all four operating units would be under off-normal operations would be extremely unlikely. Therefore, this scenario has not been modeled although it would greatly exceed the maximum groundwater pumping rates [6 million gallons per day monthly average (MGD) [4,167 gpm] and average 5.5 MGD annually (3,819 gpm)] established under SNC's existing permit.

#### **GROUNDWATER USE REPORT**

(Print or type all information)

This form shall be s Standard Condition		ion within fifteen (15) da	ys after the report	ng period specified on the permit under
Permittee South	em Nuclear Operatir	g Company - Vogtle El	ectric Generating	Plant
Permit No. <u>017-0</u>	003	For six m	nonth period from	09-01-1999 thru 02-29-2000
This report is on the	Cretaceous San	Well #3,		nbered: Make-up Wells #1 and #2A, Construction Tactical Training Well #5, Training Center Well, ell TW-1.
Specific Conductivit	y NA mmhos/cm			
Static water level (S	SWL)	45.1 ft. Elevation	155.4 ft.	Well no. MU-1 Date measured 2-15-2000
Pumping water leve	ol (PWL)	52.6 ft. Elevation (Use addition	147.9 ft. onal sheet if neces	Well no. MU-1 Date measured 2-15-2000 sary)
Number of hours st	utdown for SWL me	asurement 57 min	Number of cor	ntinuous hours pumped for PWL measurement 64 min
Method of measure Measurement from:		(X) Probe; () Ta sing; () Ground;		(Specify)
From From	in and submit appropriate sets n 1-5 wells a set from n 6-10 wells-a set from n 11-15 wells-a set from n 16-20 wells-a set from	of measurements as indicated below ONLY ( WELL ONLY 2 WELLS ONLY 3 WELLS ONLY 4 WELLS		Take readings from the highest yield well(s), using the same well(s) each time. For additional wells, follow this format
	Monthly amount of w	ater pumped from aquifer in	thousands of gal.	
MONTH	TOTAL	MAX. DAY	Monthly Avg./Day	Method used to determine pumpage
September	26431.6	1525.2	881.1	(X) Flow meter
October	22841.8	1017.0	736.8	Other (Specify)
November	24859.4	1841.4	828.6	Use: For a consumptive use for central water supply, cooling water, process water for
December	25365.4	1418.4	818.2	operation of Units 1 & 2, and irrigation of
January	51070.8	3158.9	1647.5	omamental vegetation.
February	25035.5	1521.5	863.3	1
GRAND TOTAL	175604.5	ANNUAL AVG. / DAY	919.0	Average hours pumped per day: 8.0
SUCH OTHER PER	RTINENT INFORMA	TION FURNISHED BY T	HE PERMITTEE	OR REQUIRED BY THE DIVISION.

I certify that the above information is true to best of my knowledge and belief.

Signed

Title

Date

General Manager - Vogtle Electric Generating Plant

#### **GROUNDWATER USE REPORT**

This form shall be s	ubmitted to the Division		nt or type all informati days after the repor	orting period specified on the permit under
Standard Condition	No. 3			
Permittee South	em Nuclear Operating	Company - Vogtle	Electric Generating	ng Plant
Permit No. 017-00	003	For six	month period from	m 09-01-1999 thru 02-29-2000
This report is on the	Cretaceous Sand	Well #3		numbered: Make-up Wells #1 and #2A, Construction 4, Tactical Training Well #5, Training Center Well, Well TW-1.
Specific Conductivit	y <u>NA</u> mmhos/cn	•		
Static water level (S	WL)	63.5 ft. Elevati	on 162.2 ft.	t. Well no. MU-2A Date measured 1-13-2000
Pumping water leve	I (PWL)	93.5 ft. Elevati (Use addi	on 132.2 ft. tional sheet if nece	t. Well no. MU-2A Date measured 1-13-2000 essary)
Number of hours sh	utdown for SWL mea	surement 40.5 hr	Number of co	continuous hours pumped for PWL measurement 45 min
Method of measure Measurement from:		(X)Probe; () <sup>1</sup> ing; ()Ground		er (Specify)
Fron Fron Fron	n and submit appropriate sets of h 1-5 wells a set from 16-10 wells-a set from h 11-15 wells-a set from h 16-20 wells-a set from	ONLY I WELLS ONLY 3 WELLS ONLY 4 WELLS	low	Take readings from the highest yield well(s), using the same well(s) each time. For additional wells, follow this format
	Monthly amount of war	ter pumped from aquiter	r in thousands of gal.	ıl.
MONTH	TOTAL	MAX. DAY	Monthly Avg./Day	Method used to determine pumpage
				(X) Flow meter
				Other (Specify)
•	-	N		Use: For a consumptive use for central water supply, cooling water, process water for
			Α	operation of Units 1 & 2, and irrigation of
				omamental vegetation.
GRAND TOTAL		ANNUAL AVG. / DAY		Average hours pumped per day:
SUCH OTHER PER	TINENT INFORMATI	ON FURNISHED BY	THE PERMITTEE	E OR REQUIRED BY THE DIVISION.

I certify that the above information is true to best of my knowledge and belief.

Signed

Title

Date

General Manager - Vogtle Electric Generating Plant

13 March 2000

#### **GROUNDWATER USE REPORT**

			days after the reporting		pecified on the permit under
Standard Condition	140. 3				
Permittee South	em Nuclear Operating	Company - Vogti	e Electric Generating F	Plant	
Permit No017-00	003	Fors	ix month period from	03-01-200	0 thru 08-31-2000
This report is on the	Cretaceous Sand	Well		Tactical Tra	ke-up Wells #1 and #2A, Construction ining Well #5, Training Center Well,
Specific Conductivity	y <u>172</u> mmhos/cm				
Static water level (S	WL)	44.7 ft. Eleve	tion 155.8 ft.	Well no.	MU-1 Date measured 08-25-00
Pumping water level		51.0 ft. Eleve	ation 149.3 ft. ditional sheet if necess	Well no. sary)	MU-1 Date measured 08-25-00
	utdown for SWL measment: ( ) Air Line;	( X ) Probe; ( )	Tape; ( ) Other (S	a galaciera e	rs pumped for PWL measurement 31 min
Measurement from;	(X) Top of cas	ing; ( ) Groui	ic; ( ) Other	(Specify)	
From From Prom	n and submit appropriate sets of 1-5 wells a spiritum 16-10 wells-a set from 111-15 wells-a set from 116-20 wells-a set from	ONLY 4 WELLS ONLY 2 WELLS ONLY 2 WELLS ONLY 1 WELLS			Take readings from the highest yield well(s), using the same well(s) each time. For additional wells, follow this format
	Monthly amount of war	ter pumped from aqui	fer in thousands of gal.		
- MONTH	TOTAL	MAX. DAY	Monthly Avg./Day		Method used to determine pumpage
March	28895,5	1690.6	932.1	(X)	Flow meter
April	34849.1	1966.8	1161.6		Other (Specify)
Мву	31720.8	1321.5	1023.3		Use: For a consumptive use for central water supply, cooling water, process water for
June	33911.1	1701.5	1130.4		operation of Units 1 & 2, and Irrigation of
July	35342.1	1677.7	1140,1		ornamental vegetation.
August	40264.9	1792.2	1298.9		
GRAND TOTAL	204983.5	ANNUAL AVG. / D/	AY 1038.5	Average I	nours pumped per day: 9.3
SUCH OTHER PER	RTINENT INFORMAT	ION FURNISHED E	BY THE PERMITTEE C	OR REQUIP	RED BY THE DIVISION.

I certify that the above information is true to best of my knowledge and belief.

Signed

Title

Date

1TBan

General Manager - Vogtle Electric Generating Plant

15501+2000

#### **GROUNDWATER USE REPORT**

			nt or type all information		
This form shall be subt Standard Condition No		n within fifteen (15)	days after the report	ing period s	pecified on the permit under
Permittee Southern	Nuclear Operating	Company - Vogtle	Electric Generating	<u>Plant</u>	
Permit No017-0003	<u> </u>	For size	month period from	03-01-200	00 thru 08-31-2000
This report is on the	Cretaceous Sand	Well #		Tactical Tra	ke-up Wells #1 and #2A, Construction ining Well #5, Training Center Well,
Specific Conductivity_	175 mmhos/cr				
Static water level (SWI	_)	58.5 ft. Elevat	ion 162.5 ft.	Well no.	TW-1 Date measured 08-24-00
Pumping water level (F		72.3 ft. Elevat	ion 148.6 ft. Inional sheet if neces	Well no.	TW-1 Date measured 08-24-00
	•				
Number of hours shutc	lown for SWL meas	urement 8 mo.	Number of cor	ntinuous hou	irs pumped for PWL measurement 31 min
Method of measureme Measurement from:	nt⊳() Air Line;  ( X ) Top of casi			Specify) (Specify)	
weashenent non.	( X ) Top or case	ng, ( ) Gloom	i, ( ) Outer	(Specify)	
*Obtein en	d submb accompitate acts of	measurements as indicated b	rian	•	•
, -,	wells a sel from	ONLYIWELL			Take readings from the highest yield well(s),
From 6-1	Q <b>च्यु</b> िक इसर रिखना	ONLY 2 WELLS		,	using the same well(s) each time. For
From 11	15 welle-a set from	ONLY 3 WELLS	•	•	additional wells, follow this format
From 18	20 walle-s set from	ONLY 4 WELLS			
	lorithly emount of wat	er pumped from aquife	r in thousands of gal.		
<b> </b> -	<del></del>		<del></del>	-	
MONTH			Monthly	1	Method used to determine pumpage
	TOTAL	MAX. DAY	Avg./Day	[	
		·		_	
		·		(X)	Flow meter
/- \			ļ.,,,		Other (Specify)
		N		_]	Use: For a consumptive use for central water supply, cooling water, process water for
,			A		operation of Units 1 & 2, and imigation of
					omamental vegetation.
				1	
GRAND TOTAL	. A	ANNUAL AVG. / DAY	Υ :	Average	hours pumped per day:
SUCH OTHER PERTI	NENT INFORMATI	ON FURNISHED BY	THE PERMITTEE	OR REQUIF	RED BY THE DIVISION.

I certify that the above information is true to best of my knowledge and belief.

Signed AT Man

Title

Date

General Manager - Vogtle Electric Generating Plant

15 Sept 2000

#### **GROUNDWATER USE REPORT**

This form shall be so Standard Condition			) days after the reporting	ng period specified on the permit under
Clasida de Condition	110.0			
Permittee Southe	em Nuclear Operating	Company - Vogt	le Electric Generating I	Plant
Permit No. <u>017-00</u>	003	For s	six month period from	09-01-2000 thru 02-28-2001
This report is on the	Cretaceous Sand	Well		nbered: Make-up Wells #1 and #2A, Construction Tactical Training Well #5, Training Center Well, ell TW-1.
Specific Conductivity	y NA mmhos/cm			
Static water level (S	WL)	70.7 ft. Eleva	ation 155.0 ft.	Well no. MU-2A Date measured 2-09-2001
Pumping water level	•	105.3 ft. Eleva	ation 120.4 ft.	Well no. MU-2A Date measured 2-09-2001
			iditional sheet if neces	
	utdown for SWL mea			tinuous hours pumped for PWL measurement 30 min
Measurement from:	nent: ( ) Air Line; (X) Top of cas			(Specify) (Specify)
From From From	n and submit appropriate sets of a 1-6 wells a set from a 6-10 wells-a set from a 11-15 wells-a set from a 16-20 wells-a set from	ONLY 1 WELLS ONLY 2 WELLS ONLY 2 WELLS	; ;	Take readings from the highest yield weil(s), using the same well(s) each time. For additional wells, follow this format
	Monthly amount of wa	ter pumped from aqui	ifer in thousands of gal.	
МОИТН	TOTAL	MAX. DAY	Monthly Avg./Day	Method used to determine pumpage
September	44868.7	2172.7	1495.6	(X) Flow meter
October	53298.9	3170.2	1719.3	Other (Specify)
November	47151.2	3161.3	1571.7	Use: For a consumptive use for central water supply, cooling water, process water for
December	48712.8	3288.7	1571.4	operation of Units 1 & 2, and irrigation of
January	37495.5	2605.7	1209.5	omamental vegetation.
February	37756.6	2124.8	1348.5	
GRAND TOTAL	269283.7	ANNUAL AVG. / D	AY 1300.2	Average hours pumped per day: 12.4
SUCH OTHER DED	TIMENT INCOMAT	ON ELIDNICHED	OV THE DEDMITTEE	OD DECLUDED BY THE DIVISION

I certify that the above information is true to best of my knowledge and belief.

App T. Daw

Title

Date

General Manager - Vogtle Electric Generating Plant

3/14/2001

#### **GROUNDWATER USE REPORT**

	·	(Prì	nt or type all information	on)	
This form shall be s	ubmitted to the Division	n within fifteen (15)	lays after the report	ting period s	pecified on the permit under
Standard Condition	No. 3				
Permittee South	em Nuclear Operating	Company - Vortle	Electric Congretion	Plant	
	on Hudical Operating	onipany vogus	LICONIC CONCINENTING	1 10010	<del></del>
D	000	Cir.		00.04.00	00 00 0001
Permit No. 017-0	JU3 ·	- For six	month period from	09-01-20	00 thru_02-28-2001
This report is on the	Cretaceous Sand				ake-up Wells #1 and #2A, Construction
					aining Well #5, Training Center Well,
		Recrea	ition Area Well, & W	/ell TW-1.	
Specific Conductivit	v NA mmhos/cm				
-	· ——				
Static water level (S	WL)	58.9 ft. Elevati	on 162.1 ft.	Well no.	TW-1 Date measured 2-26-2001
Pumping water leve	I (PWL)	71.2 ft. Elevati	on 149.8 ft.	Well no.	TW-1 Date measured 2-26-2001
	` ' '		tional sheet if neces		1111
•	•	(030 800)	norm ancet a neces	ssai y j	
Number of hours sh	utdown for SWL meas	urement 35 min	Number of co	ntinuous ho	urs pumped for PWL measurement 30 mln
			•		
Method of measure	mont / \Airlino /	X ) Probe; ( )	Tane: / \ Other	(Specify)	
Measurement from:		ng; ( ) Ground		(Specify)	
weasuranen nun.	( A ) Top of case	rig, ( ) circuito	, ( ) Other	(Shecily)	• • • •
· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
*Obtai	n and submit appropriate sets of	measurements as indicated be	low	•	
From	1-5 wells a set from	ONLY I WELL			Take readings from the highest yield well(s),
From	6-10 welle-a set from	ONLY 2 WELLS			using the same well(s) each time. For
	n 11-15 wells-s set from	ONLY 3 WELLS	4.1 44.1.1		additional wells, follow this format
		ı			
From	16-20 wells-a set from	ONLY 4 WELLS			,
				<u> </u>	
	Monthly amount of wat	er pumped from aquifer	in thousands of gal.		
		*			7
				)	
MONTH	TOT41	14417 BALL	Monthly	1	Method used to determine pumpage
.	TOTAL	MAX. DAY	Avg./Day		· .
	i				
			j	(x).	Flow meter
				7 /	
					Other (Specify)
				7	· · · · · · · · · · · · · · · · · · ·
	•	N	· /	•   • • • • •	Use; For a consumptive use for central water
		- •			supply, cooling water, process water for
<del></del>		<del></del>		<b>-</b>	
			Α		operation of Units 1 & 2, and irrigation of
				⊣	Operation of China 1 of C. Bird andonors of
				1	omamental vegetation.
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		ANIABILAL AVO (DAV		A	hours oursed par days
GRAND TOTAL		ANNUAL AVG. / DAY		Average	hours pumped per day:
		-	•	<u> </u>	
SUCH OTHER PER	TINENT INFORMATI	ON FURNISHED BY	THE PERMITTEE	OR REQUII	RED BY THE DIVISION.
- JOHN CHILLIAN		O: " 1101 IED D1	TOTAL CONTRACT OF THE	OLL LEGICAL	

I certify that the above information is true to best of my knowledge and belief,

Jeffy Than

Title

General Manager - Vogtle Electric Generating Plant

3/14/2001

#### **GROUNDWATER USE REPORT**

This form shall be s Standard Condition			or type all informati ys after the repor	ning period specified on the permit under	
		g Company - Vogtle El	ectric Generating	o Plant	
Permit No. 017-0			onth period from		:
			•		
This report is on the	e Cretaceous Sand	Well #3,		umbered: Make-up Wells #1 and #2A, Cons I, Tactical Training Well #5, Training Center Well TW-1.	
•	ity 185 mmhos/cn		4.7.4		*****
Static water level (		46.5 ft. Elevation			08-31-01
Pumping water leve	er (LAAP)	52.6 ft. Elevation (Use addition	147.9 ft. onal sheet if nece		<u> 08-31-01</u>
Number of hours si Method of measure Measurement from	•	(X) Probe; () Tap	e; ( ) Other	ontinuous hours pumped for PWL measurem (Specify) er (Specify)	nent 31 min
Fra Fra Fra	ain and submit appropriate sets on 1-5 wells a set from on 6-10 wells-a set from on 11-15 wells-a set from on 18-20 wells-a set from	ONLY 1 WELLS ONLY 2 WELLS ONLY 4 WELLS		Take readings from the higher using the same well(s) each ti additional wells, follow this for	ime. For
- -	Monthly amount of w	ater pumped from aquifer in	thousands of gal		
MONTH	TOTAL	MAX, DAY	Monthly Avg./Day	Method used to determine pumps	1 <b>9e</b>
March	43253.6	2553.3	1395.3	(X) Flow meter	
April	42933.3	1786.8	1431.1	Other (Specify)	
May	45649.5	2086.3	1472.6	Use: For a consumptive use for o supply, cooling water, process wa	
June	46330.7	2433.8	1544.4	operation of Units 1 & 2, and irrig	atio <u>n of</u>
July	47227.6	1876.3	1523.5	omamental venetation.	-
August	47554.1	2161.6	1534.0		
GRAND TOTAL	272948.8	ANNUAL AVG. / DAY	1484.7	Average hours pumped per day: 12.4	
SUCH OTHER PE	RTINENT INFORMA	TION FURNISHED BY T	HE PERMITTEE	OR REQUIRED BY THE DIVISION.	
I certify that the ah	ove information is to	e to best of my knowledg	se and helief		***

Title

Date

General Manager - Vogtle Electric Generating Plant

#### **GROUNDWATER USE REPORT**

			(Print or type all information	
This form shall be s	ubmitted to the Division	on within fifteen (1	5) days after the reporting	ng period specified on the permit under
Standard Condition	No. 3			
•	•			
Permittee South	em Nuclear Operating	Company - Vog	tte Electric Generating F	Plant
· ·				
Permit No. 017-0	003	. For	six month period from _	03-01-2001 thru D8-31-2001
				4114 - 50 - 51 - 50 - 51
This report is on the	e Cretzceous Sand	Am	lifor read by wall/al name	nbered: Make-up Wells #1 and #2A, Construction
Line sebolitie on mid	CIEIZCEOUS SAITU		iller used by well(s) fluit iller imposion tatali #4 7	Tactical Training Well #5, Training Center Well,
			reation Area Well, & We	
			Healton Alea Viell, a VVe	51   YY-1.
Specific Conductivit	ty 165 mmhos/cm	•	•	
Static water level (S	WL)	68.9 ft. Ele	vation 157.1 ft.	Well no. MU-2A Date measured 08-31-01
Pumping water leve	•	73.0 ft. Ele	vation 153.0 ft.	Well no. MU-2A Date measured 08-31-01
· militaria mator tore			idditional sheet if necess	
•		(060 8	CONCINCIAL SHEET IT HECESE	sary)
Number of hours st	utdown for SWL mea	surement 41 mi	n Number of cont	tinuous hours pumped for PWL measurement 193 min
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Method of measure	ment: ( ) Air Line;	(X) Probe; (	Tape; ( ) Other (S	Specify)
Measurement from:	(X) Top of cas	ing; ( ) Grot		(Specify)
	in and aubmit appropriate sets of		- d d	
		1		Take readings from the highest yield well(s),
From	n 1-5 walls 2 901 lign	ONLYTWELL		using the same well(s) each time. For
From	m 6-10 wella-e set from	ONLY 2 WEL	LS	additional wells, follow this format
From	n 11-15 wells-8 sel from	OWLY 3 WELL	LS	acchional wells, tollow this format
Fra	n 16-20 welle-s set from	ONLY 4 WEL	LS .	
	Monthly amount of war	ter pumped from ad	ulter in thousands of gal.	
		an panipan nama		1.5
HTMOM	TOTAL	MAX. DAY	Monthly	Method used to determine pumpage
	IUIAL	MAX. DAY	Avg./Day	
	<u> </u>	<u> </u>		
		1		(X) Slew meter
	<u> </u>			Flow meter
				A
	<del>                                     </del>	ļ		Other (Specify)
		N		
	j .	17		Use: For a consumptive Use for central water
	<del> </del>	<del> </del>		Supply, cooling water, process water for
				Annual Control of the
<del></del>	***********			operation of Units 1 & 2, and impation of
				omemental vegetation.
	· /	<b>/</b>	1	
	<del>                                     </del>	<del> </del>	·	<b>.</b>
		[		
		1		4
CHANG TOTAL		ANNUAL AVG. / I	DAY	Average hours pumped per day:
GRAND TOTAL	,			
SHOULDS: ISSUED SEE		A.I		
SUCH OTHER PER	TINENT INFORMAT	ON FURNISHED	BY THE PERMITTEE O	OR REQUIRED BY THE DIVISION.

I certify that the above information is true to best of my knowledge and belief.

Jeffy T. Sam

Signed

Title

Date

General Manager - Vogtle Electric Generating Plant

13 lept 01

#### **GROUNDWATER USE REPORT**

(Print or type all information)

Permittee Sout	them Nuclear Operation	e Company - Vooth	e Flectric Generating	Plant	
reminies 3000	Helli Nocieal Operatio	ig company - voga	& Clocific Generating	7 10011	
Permit No. 017-	0003	For s	ix menth period from	09-01-200	1 thru <u>02-28-2002</u>
This report is on th	ne Cretaceous San	Well		Tactical Tra	ke-up Wells #1 and #2A, Construction ining Well #5, Training Center Well.
Specific Conductiv	vity N/A mmhos/c	m	·		
Static water level (	(SWL)	45.9 ft. Elevs	tion 154.6 ft.	Well no.	MU-1 Date measured 02-21-02
Pumping water lev	rei (PWL)	51.2 ft. Eleva (Use ad	ition 149.3 ft. ditional sheet if neces	Well no.	MU-1 Date measured 02-21-02
	shutdown for SWL me rement: ( ) Air Line; n: (X) Top of ca	( X ) Probe; ( )	Tape; ( ) Other (	ntinuous hou Specify) (Specify)	re pumped for PWL measurement 31 min
FP FP PI	plain and submit appropriate sets from 1-5 wells a set from from 6-10 wells-a set from from 11-15 wells-a set from from 16-20 wells-a set from	ONLY 4 WELLS			Take readings from the highest yield well(s), using the same well(s) each time. For additional wells, follow this format
	Monthly amount of w	vater pumped from aqui	fer in thousands of gal.		
MONTH	TOTAL	MAX DAY	Monthly Avg./Day		Method used to determine pumpage
				/,,,	
September	45363.4	1952.6	1512.1	(X)	Flow meter
September October	45363.4 45673.7	1952.6	1512.1		Flow meter Other (Specify)
	<del> </del>			- (×)	Other (Specify) Use: For a consumptive use for central water
October	45673.7	1827.6	1473.3	-	Other (Specify)
October November	45673.7 43513.8	1827.6 1753.1	1473.3 1450.5	- (×)	Other (Specify) Use: For a consumptive use for central water supply, cooling water, process water for
October November December	45673.7 43513.8 45081.4	1827.6 1753.1 1728.5	1473.3 1450.5 1454.2	- (×)    	Other (Specify) Use: For a consumptive use for central water supply, cooling water, process water for operation of Units 1 & 2, and Irrigation of
October November December January	45673.7 43513.8 45081.4 39731.1	1827.6 1753.1 1728.5 1684.6	1473.3 1450.5 1454.2 1281.6		Other (Specify) Use: For a consumptive use for central water supply, cooling water, process water for operation of Units 1 & 2, and Irrigation of

Signed

Title

Date

11 Daw

General Manager - Vogite Electric Generating Plant

13 March 02

#### **GROUNDWATER USE REPORT**

			t or type all informatio	
This form shall be so Standard Condition		within fifteen (15) d	ays after the reporti	ing period specified on the permit under
Permittee Southe	em Nuclear Operating	Company - Vogtle I	Electric Generating	Plant
, ,	-	*	•	
Permit No. <u>017-00</u>	003	For six	month period from	09-01-2001 thru 02-28-2002
This report is on the	Cretaceous Sand	Aguifer	used by well(s) our	mbered: Make-up Wells #1 and #2A, Construction
, , , , , , , , , , , , , , , , , , ,				Tactical Training Well #5, Training Center Well,
			tion Area Well, & W	
Specific Conductivit	y N/A mmhos/cm			
Static water level (S	WL)	75.1 ft. Elevation	on 150.9 ft.	Well no. MU-2A Date measured 02-27-02
Pumping water leve	· ·	92.7 ft. Elevation	on 133.3 ft.	Well no. MU-2A Date measured 02-27-02
			ional sheet if neces	
		,		
Number of hours sh	utdown for SWL meas	urement 6 days	Number of cor	ntinuous hours pumped for PWL measurement 72 min
Method of measure	ment: ( ) Air Line; (	X) Probe; ( ) Ta	pe: ( ) Other (	Specify)
Measurement from:				(Specify)
*Opus	in and submit appropriate sits of	ed behanippi sa ernemerusaem	OW .	
Fron	n 1-6 wells a set from	ONLY ( WELL		Take readings from the highest yield well(s),
· Fron	n 6-10 wells-e set from	ONLY 2 WELLS		using the same well(s) each time. For
From	n 16-16 welle-a set from	ONLY 3 WELLS		additional wells, follow this format
Fron	n 16-20 wells-a set from	ONLY 4 WELLS		
	Monthly amount of wat	er pumped from aquifer	in thousands of gal.	
			,	See May Co.
<b>]</b>	<del></del>	<del></del>	<del>,</del>	-
MONTH			Monthly	Method used to determine pumpage
	TOTAL	MAX. DAY	Avg./Day	
			<u> </u>	
				(X) Flow meter
<del></del>				Other (Specify)
		N		Use: For a consumptive use for central water
				supply, cooling water, process water for
			A	operation of Units 1 & 2, and impation of
-			†	
! 				omamental vegetation.
				<b>」</b>
<del> </del>			1 <u></u>	-
GRAND TOTAL	1	ANNUAL AVG. / DAY	4	Average hours pumped per day:
O MAN TO IVE				
SUCH OTHER PER	RTINENT INFORMATI	ON FURNISHED BY	THE PERMITTEE	OR REQUIRED BY THE DIVISION.

Title

General Manager - Vogtle Electric Generating Plant

Date

13 March 02

Southern Nuclear Operating Company, Inc. P.C. Box 1295 Birdingham, Alabama 35201-1295 fer 205-992-5000



ENV-02-187

September 13, 2002

#### FEDERAL EXPRESS

Vogtle Electric Generating Plant Ground Water Use Permit No. 017-0003 Semi-Annual Report

Mr. Bill Frechette
Senior Geologist
Water Resources Management Branch
State of Georgia Environmental Protection Division
205 Butler Street, S.E., Room 1166
Atlanta, Georgia 30334

Dear Mr. Frechette:

In accordance with standard condition #3 of the Vogtle Electric Generating Plant Ground Water Use Permit (No. 017-0003), enclosed is the semi-annual Ground Water Use Report.

Additionally, due to problems encountered in measuring water levels in Make-up Well 2A, we have designated the Recreation Center well for measuring and reporting static and pumping water levels and specific conductivity required by the permit. This change was discussed with you by Ms. Amy Greene, of my staff, in a telephone call on August 30, 2002. It is understood that this change is acceptable to EPD.

If you have any questions, please contact Amy Greene at (205) 992-5809.

Sincerely,

Wayne C. Carr, Manager Environmental Services

WCC/ABG

Enclosure

ENV-02-187 Mr. Bill Frechette State of Georgia Environmental Protection Division Page Two

bcc:

J. T. Gasser (w/o)

G. R. Frederick

W. F. Kitchens (w/o)

J. A. Bailey (w/o)

I. A. Kochery (w/o)

B. D. Carter (w/o)

M. E. Wilder (w/o)

S. Sundaram (w/o)

C. M. Burke

REES Route: T. C. Moorer / K. W. McCracken / A. H. Lovoy

ES Files E.03.34

SNC Document Management - Vogtle

#### GROUNDWATER USE REPORT

This form shall be su Standard Condition			rint or type all information days after the reportir	ng period specified on the permit under
Chandala Continion	110.0			
Permittee South	em Nuclear Operating	Company - Vogti	e Electric Generating F	Plant
Permit No. 017-00	003	For s	ix month period from _	03-01-2002 thru 08-31-2002
This report is on the	Cretaceous Sand	Well	er used by well(s) num #3, Irngation Well #4, eation Area Well, & We	nbered: Make-up Wells #1 and #2A, Construction Tactical Training Well #5, Training Center Well, ell TW-1.
Specific Conductivity	y 150 mmhos/cm			
Static water level (S	WĽ)	49.7 ft. Eleva	ation 150.8 ft.	Well no. MU-1 Date measured 08-14-02
Pumping water level	(PWL)	54.7 ft. Eleva (Use ad	ation 145.8 ft. ditional sheet if necess	Well no. MU-1 Date measured 08-14-02 sary)
Number of hours sh	utdown for SWL meas	urement 0.5 hr.	Number of con	atmuous hours pumped for PWL measurement 0.5 hr.
Method of measurer Measurement from:	· · ·		Tape, ( ) Other (S	Specify) (Specify)
From From From	n and subthit appropriate sets of 1-1-5 wells a set from 1-5-10 wells-a set from 1-11-15 wells-a set from 1-16-20 wells-a set from	ONLY I WELLS ONLY 2 WELLS ONLY 2 WELLS ONLY 4 WELLS		Take readings from the highest yield well(s), using the same well(s) each time. For additional wells, follow this format
<u>:</u>	Monthly amount of wat	er pumped from aqui	fer in thousands of gal.	
МОИТН	TOTAL	MAX. DAY	Monthly Avg./Day	Method used to determine pumpage
March	45179.6	2686.6	1457.4	(X) Flow meter
April	40141.8	1906.2	1338,1	Other (Specify)
May	39821.4	3020.9	1284.6	Use: For a consumptive use for central water supply, cooling water, process water for
June	42286,3	2492.5	1409.5	operation of Units 1 & 2, and impation of
July	363ë5.8	1821.5	1179.1	omamental vegetation.
August	28338.0	1690.8	914.1	
GRAND TOTAL	232132.9	ANNUAL AVG. / D/	LY 1345.1	Average hours pumped per day: 10.5
SUCH OTHER PER	RTINENT INFORMATI	ON FURNISHED E	BY THE PERMITTEE C	OR REQUIRED BY THE DIVISION.

I certify that the above information is true to best of my knowledge and belief.

George R. Fredrik

Title

Date

General Manager - Vogtle Electric Generating Plant

9/12/02

## GROUNDWATER USE REPORT

Pumping water level (PWL)  53.8 ft. Elevation 114.6 ft. Well no. (Use additional sheet if necessary)  Number of hours shutdown for SWL measurement 0.5 hr. Number of continuous hours pumped for PWL measurement 0.5 Method of measurement () Air Line; ( X ) Probe; ( ) Tape; ( ) Other (Specify)  Measurement from: ( X ) Top of casing; ( ) Ground; ( ) Other (Specify)  Obtain and subrun appropriate sets of measurements as indicated below. From 1-5 wells a set from ONLY 3 WELLS Using the same well(e) each time. For From 1-15 wells-a set from ONLY 3 WELLS ONLY 3 WELLS  Monthly amount of water pumped from aquifer in thousands of gal.  MONTH  TOTAL MAX. DAY Monthly Avg./Day Method used to determine pumpinge  (X) Flow meter  Other (Specify)  Use: For a consumptive use for central water supply, cooling water, process, water to						pecified on the permit under
Adulter used by well(s) numbered: Make-up Wells at and #2A, Construction Well #3, Irrigation Well #4, Tactical Training Well #5, Training Center Well. Recreation Aroa Well. & Well no. Rec Ctr Date measured 08-23-03 attack water level (SWL) 33.8 ft. Elevation 134.4 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 108-23-03	Permittee _	Southern Nuclear Operat	ting Company - Vogtle E	Electric Generating	Plant '	
Well #3, Irrigation Well #4, Tactical Training Well #5, Training Center Well.  Recreation Aroa Well. & Well TW-1.  Specific Conductivity 495 mmhos/cm  radic water level (SWL) 33.8 ft. Elevation 134.4 ft. Well no. Rec Ctr Date measured 08-23-07 (Use additional sheet if necessary)  rumping water level (SWL) 53.8 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-07 (Use additional sheet if necessary)  rumping water level (PWL) 53.8 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-07 (Use additional sheet if necessary)  rumping water level (SWL) 53.8 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-07 (Use additional sheet if necessary)  rumping water level (SWL) 53.8 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-07 (Use additional sheet if necessary)  rumping water level (SWL) 53.8 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-07 (Use additional sheet if necessary)  rumping water level (SWL) 55.8 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-07 (Use additional sheet if necessary)  rumping water level (SWL) 55.8 ft. Elevation 114.6 ft. Well no. Rec Ctr Date measured 08-23-07 (Use additional sheet if necessary)  Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of continuous hours pumped for PWL measurement 0.5 (Number of conti	ermit No	017-0003	For six	month period from	03-01-200	12 thru 08-31-2002
Take readings from the highest yield was per from 1-15 wells a set	his repon is	on the <u>Cretaceous Sa</u>	Well #3	. Irrigation Well #4.	Tactical Tra	ike-up Wells #1 and #2A, Construction ining Well #5, Training Center Well.
tumbing water level (PWL)    S3.8   ft.   Elevation   114.6   ft.   Well no.   Rec Ctr   Date measured   08-23-05	pecific Conc	ductivity 405 mmhos/	cm			<u>anna an maistra parting greather an an America Statem i de America de America (1967), en en de 1979 en </u>
(Use additional sheet if necessary)  Jumber of hours shutdown for SWL measurement 0.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped for PWL measurement 1.5 hr. Number of continuous hours pumped		, ,		on 134.4 ft.	Well no.	Rec Ctr Date measured 08-23-02
Idelhod of measurement: ( ) Air Line; ( X ) Probe; ( ) Tape; ( ) Other (Specify)    Probability   Pr	umping wate	et level (PWL)			Well no. sary)	Rec Ctr Date measured 08-23-02
From 1-5 wells a set from ONLY 1 WELLS  From 1-15 wells a set from ONLY 3 WELLS  ONLY 3 WELLS  ONLY 4 WELLS  Monthly amount of water pumped from aquifer in thousands of gal.  MONTH  TOTAL  MAX. DAY  Method used to determine pumpage  (X)  Flow meter  Other (Specify)  Use: For a consumptive use for central water supply, cooling water brooses water for	lethod of me	easurement: ( ) Air Line	o; (X)Probe; ()Ta	pe; ( ) Other (	Specify)	ats pumped for PWL measurement 0.5 hr.
MONTH  TOTAL  MAX. DAY  Monthly Avg./Day  Method used to determine pumpage  (X)  Flow meter  Other (Specify)  Use: For a consumptive use for central water supply, cooling water, process, water for		From 9-5 wells a set from From 6-10 wells-a set from From 11-15 wells-a set from	ONTA 3 METTS ONTA 5 METTS ONTA 1 METT	<b>&gt;W</b>		• • • • • • • • • • • • • • • • • • • •
TOTAL  MAX. DAY  Avg./Day  (X)  Flow meter  Other (Specify)  Use: For a consumptive use for central water supply, cooling water, process, water for		Monthly amount of	water pumped from aquifer	in thousands of gal.		
Other (Specify)  Use: For a consumptive use for certifal water supply, cooling water, process water for			1			
Use: For a consumptive use for central water supply, cooling water brocess water to:	МОМТН	TOTAL	MAX DAY	•		Method used to determine pumpage
anibbly' cooling walfei, process water to.	MONTH	TOTAL	MAX. DAY	•	(X)	
	MONTH	TOTAL	MAX. DAY	•	(x)	Flow meter
	MONTH	TOTAL		•	(x)	Flow meter Other (Specify) Use: For a consumptive use for central water
omamental vegetation	MONTH	TOTAL		Avg /Day	(x)	Flow meter Other (Specify) Use: For a consumptive use for central water
	MONTH	TOTAL		Avg /Day	(x)	Flow meter  Other (Specify)  Use: For a consumptive use for central water supply, cooling water, process water for operation of Units 1 & 2, and imigation of
RAND TOTAL ANNUAL AVG. / DAY Average hours pumped per day:		TOTAL		Avg /Day	(x)	Flow meter  Other (Specify)  Use: For a consumptive use for central water supply, cooling water, process water for operation of Units 1 & 2, and imigation of

	Signed.	Title
Sean		General Manager - Vogtle Electric Generating Plant

9/12/02

Date





(Print or type ALL Information)							
Permittee Information		Tare or type /	LL MIOIMAGON)				
Contact Person: W. C. Carr		Phone:	(205) 992-638	7 Email: w	ccarr@southernco.com		
Company / Permittee: Southe	rn Nuclear Operati	ng Company	/ Vogtle Electric	Generating Plan	nt		
Address: P. O. Box 1295, Birn	ningham, Alabama	35201		* v			
(No. and S	treet)		(City)		itate) (Zip)		
GW Withdrawal Permit No.: 0	17 - 0003	For six (6	6) month period	from July 2002	thru December 2002		
County where well(s) is located		GA		· .			
This report is on the <u>Cretaceous Sand</u> aquifer(s) used by well(s) numbered <u>MU-1 &amp; MU-2A, TW-1, SW-5, SB, Rec, CW-3, &amp; IW-4</u>							
Amount of water pumped from aquifer(s) each MONTH							
<b></b>		(in ga			Method used to		
Month/Year	System Tot		Monthly		determine pumpage		
	ALL we	lis	(Total/Days	s in Month)			
July /2002	36365800	gal	1173100	gal			
August /2002	28338000	gal	914100	gal	Other (specify below)		
September /2002	25129700	gal	837700	gal			
October /2002	26532400	gal	855900	gal	· ·		
November /2002	31362400	gal	1045400	gal			
December /2002	32137900	gal	1036700	gal	Average hours pumped		
		A-31	LANCE CONTROL OF THE PARTY OF T		nardov D 1		
	179866200	gal			per day 8.1		
Static water level (SWL)***		Elevation 149		ell no. MU-1	Date measured 12-04-02		
	50.8 ft.		7.7 ft. W				
Static water level (SWL)*** 5 Pumping water level (PWL)**	50.8 ft. * 55.7 ft.	Elevation 149 Elevation 144 Use additional st	9.7 ft. Wind the ft. Wheet if necessary)	ell no. MU-1 ell no. MU-1	Date measured 12-04-02  Date measured 12-04-02		
Static water level (SWL)*** Sumpling water level (PWL)**  Number of hrs shutdown for S	50.8 ft. * 55.7 ft.  WL measurement	Elevation 149 Elevation 149 Use additional st 0.58. Number	9.7 ft. Winest if necessary)  r of continuous t	ell no. MU-1 ell no. MU-1 hrs pumped for	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.		
Static water level (SWL)*** Sumpling water level (PWL)**  Number of hrs shutdown for Summer of measurement:	* 55.7 ft.  WL measurement	Elevation 149 Elevation 144 Use additional st	9.7 ft. William ft	ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.		
Static water level (SWL)*** Sumpling water level (PWL)**  Number of hrs shutdown for Summer of measurement:  Measurement from:	50.8 ft.  * 55.7 ft.  WL measurement:  ☐ Air line  X Top of casing	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground	0.7 ft. William ft. William ft. William ft. William ft. William ft. Tape  Other (si	ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.  cify) —		
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Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  *** Obtain and s	50.8 ft.  * 55.7 ft.  WL measurement :  Air line  ☑ Top of casing	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground	9.7 ft. Wind the f	ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe pecify) surements as	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.  city)  indicated below:		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  ** Obtain and s	* 55.7 ft.  * 55.7 ft.  WL measurement  Air line  Top of casing  ubmit appropria	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground	9.7 ft. William of the ft. Willi	ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe pecify) surements as	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.62.  cify) –  indicated below:		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  *** Obtain and s	# 55.7 ft.  WL measurement  Air line  ▼ Top of casing	Elevation 149 Elevation 149 Use additional should be considered by the constant of the constan	7.7 ft. What is the state of th	ell no. MU-1 ell no. MU-1 hrs pumped for Other (specify) surements as	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.62.  cify) –  indicated below:		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  ** Obtain and s	# 55.7 ft.  WL measurement  Air line  ▼ Top of casing	Elevation 149 Elevation 149 Use additional structure of the control of the contro	7.7 ft. What is the state of th	ell no. MU-1 ell no. MU-1 hrs pumped for Other (specify) surements as	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.62.  cify) –  indicated below:		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  *** Obtain and s	* 55.7 ft.  * 55.7 ft.  WL measurement  Air line  Top of casing  ubmit appropria	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground Le sets of ware	7.7 ft. What is the second of	ell no. MU-1 ell no. MU-1 hrs pumped for Other (specify) surements as	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.62.  cify) –  indicated below:		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  Obtain and s  And such other per	* 55.7 ft.  * 55.7 ft.  WL measurement  Air line  Top of casing  ubmit appropria	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground Le sets of ware	7.7 ft. William 1.8 ft. Willia	ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe pecify) surements as cant or require knowledge.	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.  cify) –  indicated below:  //Ell cife of the division.		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  Obtain and s  And such other per	* 55.7 ft.  * 55.7 ft.  WL measurement  Air line  Top of casing  ubmit appropria	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground Le sets of ware	o.7 ft. William of the work of	ell no. MU-1 ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe pecify) surements as the surements as cant or require converge.	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.  cify) –  indicated below:  If the real symmetric same as well a		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  *** Obtain and s  And such other per  I certify that the above  Bluedly Cut	* 55.7 ft.  * 55.7 ft.  WL measurement  Air line  Top of casing  ubmit appropria	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground Le sets of ware	o.7 ft. William of the continuous ft. William of continuous ft. Tape  Other (state level meaning of the continuous ft.)  Tape  Other (state level meaning of the continuous ft.)  Tape  Other (state level meaning of the continuous ft.)  Tape  Tape  Other (state level meaning of the continuous ft.)	ell no. MU-1 ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe pecify) surements as cant or require	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.  city)  indicated below:  yell yells entire the same already fill by misserial and by the Division.		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  *** Obtain and s  And such other per  I certify that the above  Signed  Chemistry Superintendent	* 55.7 ft.  * 55.7 ft.  WL measurement  Air line  Top of casing  ubmit appropria	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground Le sets of ware	7.7 ft. Wheel free free free free free free free f	ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe pecify) surements as cant or require	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.  cify) —  indicated below:  //elify religion in the same and the processor control in the same and the same		
Static water level (SWL)***  Pumping water level (PWL)**  Number of hrs shutdown for S  Method of measurement:  Measurement from:  *** Obtain and s  And such other per  I certify that the above  Bluedly Cut	* 55.7 ft.  * 55.7 ft.  WL measurement  Air line  Top of casing  ubmit appropria	Elevation 149 Elevation 149 Use additional st 0.58. Number Probe Ground Le sets of ware	7.7 ft. William 1.8 ft. Willia	ell no. MU-1 ell no. MU-1 hrs pumped for Other (spe pecify) surements as cant or require knowledge.	Date measured 12-04-02  Date measured 12-04-02  PWL measurement 0.67.  city) —  indicated below:  //EB //EB //EB //EB //EB //EB //EB //E		





(Print or bype ALL Information)  Contact Person: W. C. Carr	***************************************		(Delat as been	411 105		· · · · · · · · · · · · · · · · · · ·			
Contact Person: W. C. Carr   Phone: (205) 992-6387   Email: wccarr@southernco.com  Company / Permittee: Southern Nuclear Operating Company / Vogite Electric Generating Plant  Address: P. O. Box 1295, Birmingham, Alabama 35201  (No. and Steet)	Permittee Information		(Print or type /	ALL INTORTRACIO	on)	· · · · · · · · · · · · · · · · · · ·			
Company / Permittee: Southern Nuclear Operating Company / Vogite Electric Generating Plant  Address: P. O. Box 1295, Birmingham, Alabama 35201  (No. and Street)  (No. and Str			Phone	(205) 992-6	387 Email: v	vccarr@southemro.com			
Address: P. O. Box 1295, Birmingham, Alabama 35201  (No. and Street)	<del></del>	em Nuclear Opera							
(No. and Street) (City) (State) (259)  GW Withdrawal Permit No.: 017 - 0003   For six (6) month period from July 2002 thru December 2002  Countly where well(s) is located: Burke County, GA.  This report is on the Cretaceous Sand aquifer(s) used by well(s) numbered MU-1 & MU-2A, TW-1, SW-5, SB, Rec, CW-3, & TW-4  Amount of water pumped from aquifer(s) each MONTH (in gallons)  Monthly Year   System Total from ALL wells (Total/Days in Month)  Monthly Average (Total/Days in Month)  July /2002 N/A gal N/A gal   MA gal   Giber (specify below)  September /2002 N/A gal N/A gal   MA gal   Giber (specify below)  October /2002 N/A gal N/A gal   N/A gal   Giber (specify below)  November /2002 N/A gal N/A gal   N/A gal   Average hours pumped per day N/A gal   N/A gal   Average hours pumped per day N/A gal   N/A gal   N/A gal   Average hours pumped per day N/A gal   N				, , , ,					
GW Withdrawal Permit No.: 017 - 0003   For six (6) month period from July 2002 thru December 2002  Countly where well(s) is located: Burke County, GA  This report is on the Cretaceous Sand aquifer(s) used by well(s) numbered MU-1 & MU-2A, TW-1, SW-5, SB, Rec, CW-3, & TW-4  MONTH/Year System Total from Anitolary (in gallons)  Monthly Average (Total/Days in Month)  July /2002   N/A   gal   N/A   gal   M/A   gal   Other (specify below)  September /2002   N/A   gal   N/A   gal   Other (specify below)  September /2002   N/A   gal   N/A   gal   Other (specify)  September /2002   N/A   gal   N/A   gal   Average hours pumped per day N/A   gal   N/A   gal   Average hours pumped per day N/A   G			<u> </u>	(City)		State) (Zip)			
This report is on the Cretaceous Sand			For six (i	<del>~~</del>	od from July 2002				
Month/Year  Month/Year  Month/Year  System Total from ALL wells  Monthly Average (Total/Days in Month)  Method used to determine pumpage  August /2002 N/A gal N/A gal Goldernine pumpage  August /2002 N/A gal N/A gal Goldernine pumpage  November /2002 N/A gal N/A gal M/A gal Goldernine pumpage  November /2002 N/A gal N/A gal Goldernine pumpage  November /2002 N/A gal M/A gal M/A gal M/A gal M/A gal M/A gal M/A g	County where well(s) is locate	d: Burke County	GA						
Month/Year  System Total from ALL wells  N/A gal N/A gal N/A gal September /2002 N/A gal N/A gal N/A gal Other (specify below)  September /2002 N/A gal N/A gal N/A gal Other (specify below)  September /2002 N/A gal N/A gal N/A gal Other (specify below)  November /2002 N/A gal N/A gal N/A gal Other (specify below)  November /2002 N/A gal N/A gal N/A gal Other (specify below)  November /2002 N/A gal N/A gal N/A gal Other (specify below)  September /2002 N/A gal N/A gal N/A gal Other (specify below)  November /2002 N/A gal N/A gal N/A gal Other (specify below)  September /2002 N/A gal N/A gal N/A gal Other (specify below)  November /2002 N/A gal N/A gal Other (specify below)  Static water level (SWL)*** 30.9 ft. Elevation 137.3 ft. Well no. Rec. Date measured 12-05-02  Pumping water level (SWL)*** 49.9 ft. Elevation 118.3 ft. Well no. Rec. Date measured 12-05-02  Pumping water level (PWL)*** 49.9 ft. Elevation 118.3 ft. Well no. Rec. Date measured 12-05-02  Number of hrs shutdown for SWL measurement 0.50, Number of continuous hrs pumped for PWL measurement 0.50.  Method of measurement: Air line Proper Grown Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *****  *****  *****  *****  *****  ****									
Month / Year	MU-2A, TW-1, SW-5, SB, Rec.								
Month/Year   System Total from ALL wells   Monthly Average (Total/Days in Month)	(in gallons) Method uses								
ALL wells   (Total/Days in Month)	Month/Year	System To			ly Average				
August /2002 N/A gal N/A gal Other (specify below)  September /2002 N/A gal N/A gal October /2002 N/A gal Average hours pumped per day N/A gal N/A gal N/A gal Average hours pumped per day N/A gal N/A gal N/A gal N/A gal Average hours pumped per day N/A gal Average hours pumped per day N/A gal						panipage			
September /2002 N/A gal N/A gal October /2002 N/A gal	July /2002	N/A	gal	N/A	gal	☑ Flow meter			
October /2002 N/A gal N/A gal Average hours pumped per day N/A  December /2002 N/A gal N/A gal Average hours pumped per day N/A  Static water level (SWL)*** 30.9 ft. Elevation 118.3 ft. Well no. Rec. Date measured 12-05-02  Pumping water level (PWL)*** 49.9 ft. Elevation 118.3 ft. Well no. Rec. Date measured 12-05-02  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.50. Number of continuous hrs pumped for PWL measurement 0.50.  Method of measurement: Air line Probe Tape Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit app		N/A	gai	N/A	gal	Other (specify below)			
November /2002 N/A gal N/A gal Average hours pumped per day N/A gal N/A			gal		gal				
December /2002 N/A gal N/A gal Average hours pumped per day N/A  Static water level (SWL)*** 30.9 ft. Elevation 137.3 ft. Well no. Rec. Date measured 12-05-02  Pumping water level (PWL)*** 49.9 ft. Elevation 118.3 ft. Well no. Rec. Date measured 12-05-02  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.50. Number of continuous hrs pumped for PWL measurement 0.50.  Method of measurement: Air line Probe Tape Other (specify)  **** Obtain and submit appropriate sets of water level measurements as indicated below:  ***********************************		<del></del>	<del></del>						
Static water level (SWL)*** 30.9 ft. Elevation 137.3 ft. Well no. Rec. Date measured 12-05-02  Pumping water level (PWL)*** 49.9 ft. Elevation 118.3 ft. Well no. Rec. Date measured 12-05-02  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.50. Number of continuous hrs pumped for PWL measurement 0.50.  Method of measurement: Air line Probe Tape Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  ** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements						A. A			
Static water level (SWL)*** 30.9 ft. Elevation 137.3 ft. Well no. Rec. Date measured 12-05-02  Pumping water level (PWL)*** 49.9 ft. Elevation 118.3 ft. Well no. Rec. Date measured 12-05-02  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.50. Number of continuous hrs pumped for PWL measurement 0.50.  Method of measurement: Air line Probe Tape Other (specify)  Measurement from: Top of casing Ground Other (specify)  **** Obtain and submit appropriate sets of water level measurements as indicated below:  ***********************************				CONTRACTOR OF THE PARTY OF THE	gai Takan	•			
Pumping water level (PWL)*** 49.9 ft. Elevation 118.3 ft. Well no. Rec. Date measured 12-05-02  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.50. Number of continuous hrs pumped for PWL measurement 0.50.  Method of measurement: Air line Probe Tape Other (specify)  Measurement from: Top of casing Ground Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain appropriate sets of water level measurements as indicated below:  *** Obtain appropriate sets		IVA	yai.			her ney MA			
(Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.50. Number of continuous hrs pumped for PWL measurement 0.50.  Method of measurement: Air line Probe Tape Other (specify)  Measurement from: Top of casing Ground Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated	Static water level (SWL)***	30.9 ft.	Elevation 137	7.3 ft.	Well no. Rec.	Date measured 12-05-02			
Number of hrs shutdown for SWL measurement 0.50. Number of continuous hrs pumped for PWL measurement 0.50.  Method of measurement: Air line Probe Tape Other (specify)  Measurement from: Top of casing Ground Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain and submit appropriate sets of water level measurements as indicated below:  *** Obtain a submit appropriate sets of water level measurements as indicated below:  *** Obtain a submit appropriate sets of water level measurements as indicated below:  ** Obtain a submit appropriate sets of water level measurements as	Pumping water level (PWL)**	* 49.9 ft.	Elevation 118	3.3 ft.	Well no. Rec.	Date measured 12-05-02			
Method of measurement: Air line Probe Tape Other (specify)  Measurement from: Top of casing Ground Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  ***Top of casing Ground Other (specify)  ***Top of casing Ground Other (specify									
Measurement from:  Top of casing Ground Other (specify)  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain and submit appropriate sets of water level measurements as indicated below:  **** Obtain a propriate sets of water level measurements as indicated below:  **** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obtain a propriate sets of water level measurements as indicated below:  *** Obt	**************************************								
Obtain and submit appropriate sets of water level measurements as indicated below:  First Company of the Second Company of the Division.  I certify that the above information is true to the best of my knowledge.    Company of the Second Compa	Method of measurement:	Air line		☐ Tape	U Other (spe	cify) -			
Figure 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Measurement from:	∑ Top of casing	☐ Ground	Other	(specify)	<u> </u>			
And such other pertinent information submitted by the applicant or required by the Division.  I certify that the above information is true to the best of my knowledge.    Chemistry SuperIntendent   Provide Bast State   158     Provide Bast State			ate sets of w	ater level m	easurements as	indicated below:			
And such other pertinent information submitted by the applicant or required by the Division.  I certify that the above information is true to the best of my knowledge.    Chemistry SuperIntendent   Protection Division									
And such other pertinent information submitted by the applicant or required by the Division.  I certify that the above information is true to the best of my knowledge.  Heturn Report To:  Signed  Chemistry SuperIntendent  Title  Prove Bast Suite 158				MELTS SET					
I certify that the above information is true to the best of my knowledge.    Return Report To:   Georgia Envisormental Protection Division		RACKWEI ASSESS	O BOOK EVEN						
Signed  Return Report To: Georgia Environmental Protection Decision  Chemistry SuperIntendent  Title  Return Report To: Georgia Environmental Protection Decision  Werl Ground water Data  Ployer Tower Data, Suite 1958	And such other per	ditient intormat	ion Submitte	a by the ap	olicant or requir	ed by the Division.			
Chemistry Superintendent  Chemistry Superintendent  Title  Cecural Environmental Protection Division  West Coronactware: Unit  Ployer Torque East, Suite 1958	I certify that the above	information is	true to the	best of my	knowledge.				
Chemistry Superintendent  Chemistry Superintendent  Title  Cecural Environmental Protection Division  West Coronactware: Unit  Ployer Torque East, Suite 1958	Maulley Can					W. S. J. 28 a. s.			
Chemistry SuperIntendent Title  West Cocunativates Unit Player Tower Bast, Suite 1958		two		1000					
Title Ployer Dast, Suite Uso	Signed	tn							
	· /	tno	··	Oeor	na Environment	I Proteston Division			
7/29/05 Attanta Georgia 3003	Chemistry SuperIntendent	tw		©eor M81 Ploye	na Environment Georgedwarer Ur Tower East Sie	il Protection Dresson at 16-1058			
	Chemistry SuperIntendent Title	tn		Ogor M&I Piova 2 Ma	es Environment Georgester Da Towes East, Sie Jun Lauger Sing	II Protection Dvesion  to 1958 In Drive			

#### . Vogtle Electric Generating Plant - Permit No. 017-0003

## Annual Specific Conductance\*

Obtained from:

MU-1 Well

Obtained on:

08/14/02

Value (µmhos/cm):

150

Obtained from:

Rec Well

Obtained on:

08/23/02

Value (µmhos/cm):

405

<sup>\*</sup>Submitted with previous report on 09/13/02.

# mental Protection Department of Natural Resources



4		(	Print or type A	LL information	on)		
Permitte	ee Informatio	n					
Contact Pe	rson: W. C. Carr		Phone:	(205) 992-	6387 Ema	il: wa	carr@southernco.com
Company /	Permittee: South	ern Nuclear Operat	ing Company	/ Vogtle Elec	tric Generating	g Plant	
Address: F	. O. Box 1295, Bir	mingham, AL 3520	1				
	(No. and	l Street)		(City)		(Sta	ite) (Zip)
GW Withdrawal Permit No.: 017 - 0003 For six (6) month period from January 2003 thru June 2003						3 thru June 2003	
County where well(s) is located: Burke County, GA							
This report is on the <u>Cretaceous Sand</u> aquifer(s) used by well(s) numbered <u>MU-1 8</u> .							
MU-2A, TW-1, SW-5, Rec, CW-3, and IW-4  Amount of water pumped from aquifer(s) each MONTH							
		Amount of wa	rer pumpea ii (in ga		s) each Molen	L¥	Method used to
Mo	nth/Year	System To			nly Average		determine pumpage
		ALL W			ays in Month	1)	and a family age
January	/2003	21627400	gal	697700	ga	al [	☑ Flow meter
February	/2003	20607400	gal	736000	ga	al [	Other (specify below)
March	/2003	25447800	gai	820900	ga	al _	
April	/2003	21725800	gal	724200	ga		<del></del>
May	/2003	26062400	gal	840700	ga		
June	/2003	21364800	gal	712200	ga Senerge po por senerge	TARREST NAME OF THE OWNER,	Average hours pumped
		136835600	gal				per day <u>6.3</u>
Static water	er level (SWL)***	45.9 ft.	Elevation 15	4.6 ft.	Well no. MU-	1 -	Date measured 06-05-03
Pumping w	rater level (PWL)*	** 50.2 ft.	Elevation 15	0.3 ft.	Well no. MU-	-1	Date measured 06-05-03
			(Use additional s				
Number of	hrs shutdown for	SWL measurement	0.5. Number	of continuou	is hrs pumped	for PW	/L measurement 0.5.
Method of	measurement:	Air line	Probe	☐ Tape	Other	r (speci	fy)
Measureme	ent from:	▼ Top of casing	☐ Ground	Othe	er (specify)	· <u></u>	
	*** Obtain and	submit appropria	ate sets of w	rater level r	neasurement	ts as i	ndicated below:
						nakan. Silasis	
11.2.2.				144			
А	nd such other p	ertinent informal	tion submitt	ed by the a	pplicant or re	equire	d by the Division.
T certify	that the abov	e ipfgrmation is	s true to the	e hest of n	v knowledo	de.	۵
2 coluity	MII.	What Ill		ELICOVERNIS!		ekin singini	erano diministra antico de la como propieda de la como
<u></u>	MANU	May Carl	A.U.	Bis			
Signed		/			tick language.		
Chemistry	Superintendent			W. A. S.			
Title							
	18 Jul	4 03			17		
Date	12 21-00						

# tal Protection Department of Natural Resources



	-	(	Print or type A	LL informatio	n)	
Permitte	e Informatio	n				
Contact Per	rson: W. C. Carr		Phone:	(205) 992-6	387 Email: w	ccarr@southernco.com
Company /	Permittee: South	ern Nuclear Opera	ting Company	/ Vogtle Elect	ric Generating Plan	nt
Address: P	. O. Box 1295, Bir	mingham, AL 3520	)1			
	(No. and	Street)		(City)		State) (Zip)
GW Withdra	awal Permit No.:	017 - 0003	For six (6	) month perk	od from January 2	003 thru June 2003
County whe	ere well(s) is locat	ed: Burke County	GA			
	is on the <u>Cretace</u>				_ aquifer(s) used	by well(s) numbered MU-1 &
MU-ZA, IW	-1, SW-5, Rec, CV		iter numned fr	om aquifer(s	) each MONTH	
				llons)	, 20011 11 210111	Method used to
Mor	nth/Year	System To	tal from		ly Average	determine pumpage
		ALL W	ells	(Total/Da	ays in Month)	
January	/2003	N/A	gal	N/A	gal	☐ Flow meter
February	/2003	N/A	gal	N/A	gal	Other (specify below)
March	/2003	N/A	gal	N/A	gal	
April	/2003	N/A	gal	N/A	gal	
May June	/2003 /2003	N/A N/A	gal	N/A N/A	gal gal	Average hours pumped
Julie	72003 (2004)	N/A	gal gal	N/A	gai	per day N/A
APPRILATION	9900054,480 FRANCE.	, ver	901	landar variable i	i, ali tirikinda lirkayin ralifiyanda	por only man
Static wate	r level (SWL)***	24.6 ft.	Elevation 14:	3.6 ft.	Well no. Rec.	Date measured 06-05-03
	r level (SWL)*** ater level (PWL)*		Elevation 14:	<del></del>	Well no. Rec.	Date measured 06-05-03  Date measured 06-05-03
Pumping w	ater level (PWL)*	** 44.1 ft.	Elevation 124 (Use additional st	4.1 ft.	Well no. Rec.	Date measured 06-05-03
Pumping w	ater level (PWL)*	** 44.1 ft.  SWL measuremen	Elevation 12- (Use additional st t <u>0.5</u> , Number	4.1 ft. neet if necessary of continuous	Well no. Rec. ) s hrs pumped for f	Date measured 06-05-03  PWL measurement <u>0.5</u> .
Pumping w Number of	ater level (PWL)*	** 44.1 ft.	Elevation 124 (Use additional st	4.1 ft.	Well no. Rec.	Date measured 06-05-03  PWL measurement <u>0.5</u> .
Pumping w Number of	ater level (PWL)* hrs shutdown for measurement:	** 44.1 ft.  SWL measuremen	Elevation 12: (Use additional st t <u>0.5</u> . Number	4.1 ft.  neet if necessary of continuous  Tape	Well no. Rec. ) s hrs pumped for f	Date measured 06-05-03  PWL measurement <u>0.5</u> .
Number of Method of Measureme	hrs shutdown for measurement: ent from:	** 44.1 ft.  SWL measuremen  Air line  Top of casing	Elevation 12: (Use additional st t 0.5. Number Probe Ground	4.1 ft.  neet if necessary of continuous  Tape Othel	Well no. Rec. ) s hrs pumped for F Other (specify)	Date measured 06-05-03  PWL measurement <u>0.5</u> .
Number of Method of Measureme	hrs shutdown for measurement: ent from:	** 44.1 ft.  SWL measuremen  Air line  Top of casing	Elevation 12: (Use additional st t 0.5. Number Probe Ground	4.1 ft.  neet if necessary of continuous  Tape Othel	Well no. Rec. ) s hrs pumped for F Other (specify)	Date measured 06-05-03  PWL measurement <u>0.5.</u> ecify)
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Number of Method of Measureme	hrs shutdown for measurement: ent from:	** 44.1 ft.  SWL measuremen  Air line  Top of casing	Elevation 12: (Use additional st t 0.5. Number Probe Ground	4.1 ft.  neet if necessary of continuous  Tape Othel	Well no. Rec. ) s hrs pumped for F Other (specify)	Date measured 06-05-03  PWL measurement <u>0.5.</u> ecify)
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Pumping w  Number of  Method of  Measureme	hrs shutdown for measurement: ent from: *** Obtain and	** 44.1 ft.  SWL measuremen  Air line  Top of casing submit appropri	Elevation 12: (Use additional sit 0.5, Number  Probe Ground ate sets of w	4.1 ft. neet if necessary of continuous Tape Other ater level m	Well no. Rec. ) s hrs pumped for F Other (specify) reasurements as	Date measured 06-05-03  PWL measurement 0.5.  ecify)  indicated below:
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## Vogtle Electric Generating Plant - Permit No. 017-0003

## **Annual Specific Conductance**

Obtained from:
Obtained on:

MU-1 Well 06/05/03

Value (µmhos/cm):

175

Obtained from: Obtained on:

Rec Well 06/05/03

Value (µmhos/cm):

230



		(1)	Print or type A	LL Information	on)			
Permittee In	iformation							
Contact Person:	W. C. Carr		Phone:	(205) 992-6	387 Email: 1	wccarr@southernco.com		
Company / Permi	ittee: Souther	n Nuclear Operat	ing Company	ompany / Vogtle Electric Generating Plant				
Address: P. O. B	ox 1295, Birm	ingham, AL 3520	1					
	(No. and S	treet)		(City)		(State) (Zip)		
GW Withdrawal P	Permit No.: 0:	17 - 0003	For six (6	) month per	iod from July 2003	thru December 2003		
County where we	ell(s) is located	i: Burke County.	GA		·			
This report is on					aquifer(s) used by	y well(s) numbered MU-1 &		
MU-2A, TW-1, SV	W-5, Rec. CW-							
		Amount of wa			s) each MONTH			
Month/Year System Total			(in ga			Method used to		
,		System To			nly Average	determine pumpage		
	(0000	ALL W			ays in Month)	M		
	/2003	29006400	gal	935700	gal	Flow meter		
	/2003	28191900	gai	909400	gal_	Other (specify below)		
	/2003	28645900	gal	954900	gai			
<del> </del>	/2003	25512600	gal	823000	gal			
	/2003	20453700	gal	681800	gal	Assume house summed		
December	/2003	24300500	gal	783900	gal	Average hours pumped		
A State of the sta		156111000	gal	5		per day <u>7.1</u>		
Static water level (SWL)*** 45.1 ft. Elevation 155.4 ft. Well no. MU-1 Date measured 12-05-03								
<del></del>	<del></del>		Elevation 15		Well no. MU-1	Date measured 12-05-03		
<del></del>	<del></del>			D.7 ft.	Well no. MU-1			
Pumping water le	evel (PWL)**	* 49.8 ft.	Elevation 15 (Use additional s	D.7 ft.	Well no. MU-1			
Pumping water le	evel (PWL)** hutdown for S	* 49.8 ft.	Elevation 15 (Use additional s	D.7 ft.	Well no. MU-1	Date measured 12-05-03  PWL measurement <u>0.5</u> .		
Pumping water lo	evel (PWL)** hutdown for S urement:	* 49.8 ft.	Elevation 15 (Use additional si 0.5. Number Probe	0.7 ft. neet if necessar of continuou  Tape	Well no. MU-1 y) is hrs pumped for	Date measured 12-05-03  PWL measurement <u>0.5</u> .		
Number of hrs si Method of measurement from	evel (PWL)** hutdown for S urement:	* 49.8 ft.  WL measurement  Air line  Top of casing	Elevation 15: (Use additional si: 0.5. Number  Probe Ground	0.7 ft. neet if necessar of continuou  Tape Othe	Well no. MU-1  y)  s hrs pumped for  Compared the compare	Date measured 12-05-03  PWL measurement <u>0.5</u> .		
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Number of hrs si Method of measurement from	evel (PWL)** hutdown for S urement:	* 49.8 ft.  WL measurement  Air line  Top of casing	Elevation 15: (Use additional si: 0.5. Number  Probe Ground	0.7 ft. neet if necessar of continuou  Tape Othe	Well no. MU-1  y)  s hrs pumped for  Compared the compare	Date measured 12-05-03  PWL measurement <u>0.5</u> .  pecify)		
Number of hrs si Method of measurement from	evel (PWL)** hutdown for S urement:	* 49.8 ft.  WL measurement  Air line  Top of casing	Elevation 15: (Use additional si: 0.5. Number  Probe Ground	0.7 ft. neet if necessar of continuou  Tape Othe	Well no. MU-1  y)  s hrs pumped for  Compared the compare	Date measured 12-05-03  PWL measurement <u>0.5</u> .  pecify)		
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Pumping water in Number of hrs si Method of measurement from the Arman And su	hutdown for S urement: om: Obtain and s	* 49.8 ft.  WL measurement  Air line  Top of casing  ubmit appropri	Elevation 15 (Use additional si 0.5. Number Probe Ground ate sets of water	0.7 ft. neet if necessar of continuou  Tape Other ater level r	Well no. MU-1  y)  is hrs pumped for  Cother (specify)  measurements a	Date measured 12-05-03  PWL measurement <u>0.5</u> .  Decify)  Is indicated below:		
Pumping water in Number of hrs si Method of measurement from the Arman And su	hutdown for S urement: om: Obtain and s	* 49.8 ft.  WL measurement  Air line  Top of casing  ubmit appropri	Elevation 15 (Use additional si 0.5. Number Probe Ground ate sets of water	0.7 ft. neet if necessar of continuou  Tape Other ater level r	Well no. MU-1  y)  is hrs pumped for  it Other (sper (specify)  measurements a	Date measured 12-05-03  PWL measurement <u>0.5</u> .  Decify)  Is indicated below:		
Pumping water in Number of hrs si Method of measurement from And su I certify that	hutdown for Surement: om: Obtain and such other pe	* 49.8 ft.  WL measurement  Air line  Top of casing  ubmit appropri	Elevation 15 (Use additional si 0.5. Number Probe Ground ate sets of water	O.7 ft.  neet if necessar  of continuou  Tape  Other  ater level r	Well no. MU-1  y)  s hrs pumped for  c Other (sper (specify)  neasurements a  pplicant or requiry knowledge.	Date measured 12-05-03  PWL measurement <u>0.5</u> .  Decify)  s indicated below:  ired by the Division.		
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Number of hrs si Method of measurement fro  And su  I certify that  Signed B. Dudley Carte Chemistry Supe	hutdown for Surement: om: Obtain and such other per	* 49.8 ft.  WL measurement  Air line  Top of casing  ubmit appropri	Elevation 15 (Use additional si 0.5. Number Probe Ground ate sets of water	0.7 ft. neet if necessar of continuou  Tape Othe ater level r  ed by the a	Well no. MU-1  y)  s hrs pumped for  c Other (sper (specify)  neasurements a  pplicant or required the properties of the	PWL measurement 0.5.  Decify)  ired by the Division.		
Number of hrs si Method of measurement from And surement from And surement from Signed B. Dudley Carter	hutdown for Surement: om: Obtain and such other per	* 49.8 ft.  WL measurement  Air line  Top of casing  ubmit appropri	Elevation 15 (Use additional si 0.5. Number Probe Ground ate sets of water	O.7 ft.  neet if necessar  of continuou  Tape  Other  ater level r  ed by the a	Well no. MU-1  y)  s hrs pumped for  c Other (specify)  measurements a  pplicant or requiry knowledge.	PWL measurement <u>0.5</u> .  Decify)  s indicated below:  ired by the Division.		
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			(Print or type A			
Permittee	Informatio					
Contact Perso	on: W. C. Carr		Phone:	(205) 992-63	387 Email:	wccarr@southernco.com
Company / Pe	ermittee: Sout	hern Nuclear Opera	iting Company	/ Vogtle Elect	ric Generating Pla	ant
Address: P. C	D. Box 1295, B	irmingham, AL 352	01			
	(No. an	d Street)		(City)		(State) (Zip)
GW Withdraw	ral Permit No.:	017 - 0003	For six (	6) month perio	od from July 2003	3 thru December 2003
County where	well(s) is loca	ited: <u>Burke County</u>	, GA			
	on the Cretaco				equifer(s) used b	y well(s) numbered MU-1 &
MU-2A, TW-1	, SW-5, Rec, C	W-3, and IW-4				
		Amount of w	ater pumped fi (in ga		each MONTH	Method used to
Mont	h/Year	System To		•	ly Average	determine pumpage
		ALL v			ys in Month)	determine pumpage
July	/2003	N/A	gal	N/A	gal	⊠ Flow meter
August	/2003	N/A	gal	N/A	gal	Other (specify below)
September	/2003	N/A	gal	N/A	gal	
October	/2003	N/A	gal	N/A	gal	
November	/2003	N/A	gal	N/A	gal	
December	/2003	N/A	gal	N/A	gal	Average hours pumped
		N/A	gal			per day <u>N/A</u>
	I Zirosan Salada i		Manufac 44	22	14/ // m' -	Date measured 12-05-03
Static water le	eve! (5WL)***	* 25.0 ft.	Elevation 14	3.2 ft.	Well no. Rec.	pate measured 12-03-03
<b></b>	er level (PWL)		Elevation 12		Well no. Rec.	Date measured 12-05-03
<b></b>			Elevation 12		Well no. Rec.	
Pumping water	er level (PWL)	*** 44.7 ft.	Elevation 12 (Use additional s	3.5 ft. heet if necessary)	Weli no. Rec.	
Pumping water	er level (PWL) s shutdown fo	*** 44.7 ft.	Elevation 12 (Use additional s	3.5 ft. heet if necessary)	Weli no. Rec.	Date measured 12-05-03 PWL measurement 0.5.
Pumping wate Number of hr	er level (PWL) s shutdown fo easurement:	*** 44.7 ft. r SWL measuremer	Elevation 12 (Use additional s at 0.5, Number	3.5 ft. heet ( necessary) of continuous  Tape	Well no. Rec.	Date measured 12-05-03 PWL measurement 0.5.
Pumping water Number of hr Method of me Measurement	er level (PWL) s shutdown fo easurement: t from:	*** 44.7 ft.  r SWL measuremer  \[ \sum \] Air line  \[ \sum \] Top of casing	Elevation 12 (Use additional sont 0.5. Number  Probe Ground	3.5 ft. heet ( necessary) of continuous  Tape Other	Well no. Rec. hrs pumped for Other (sp (specify)	PWL measurement 0.5.
Pumping water Number of hr Method of me Measurement	er level (PWL) s shutdown fo easurement: t from:	*** 44.7 ft.  r SWL measuremer  \[ \sum \] Air line  \[ \sum \] Top of casing	Elevation 12 (Use additional sont 0.5. Number  Probe Ground	3.5 ft. heet ( necessary) of continuous  Tape Other	Well no. Rec. hrs pumped for Other (sp (specify)	Date measured 12-05-03 PWL measurement 0.5.
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Pumping water Number of hr Method of me Measurement	er level (PWL) s shutdown fo easurement: t from:	*** 44.7 ft.  r SWL measuremer  \[ \sum \] Air line  \[ \sum \] Top of casing	Elevation 12 (Use additional sont 0.5. Number  Probe Ground	3.5 ft. heet if necessary of continuous Tape Other	Well no. Rec. hrs pumped for Other (sp (specify)	PWL measurement 0.5.
Pumping water Number of hr Method of me Measurement	er level (PWL) s shutdown fo easurement: t from: * Obtain and	*** 44.7 ft.  r SWL measuremer  Air line  Top of casing submit appropr	Elevation 12 (Use additional sont 0.5, Number Probe Ground Ground	3.5 ft. heet if necessary) of continuous Tape Other	Well no. Rec. hrs pumped for Other (sp (specify) easurements a	PWL measurement 0.5.
Pumping water Number of his Method of me Measurement	s shutdown for easurement: from: * Obtain and	*** 44.7 ft.  If SWL measurement  Air line  Top of casing a submit appropriate	Elevation 12 (Use additional sont 0.5. Number Probe G Ground iate sets of water	3.5 ft. heet if necessary) of continuous Tape Other rater level m	Well no. Rec. hrs pumped for Other (sp (specify) easurements a	PWL measurement 0.5. pecify) s indicated below:
Pumping water Number of his Method of me Measurement	s shutdown for easurement: from: * Obtain and	*** 44.7 ft.  r SWL measuremer  Air line  Top of casing submit appropr	Elevation 12 (Use additional sont 0.5. Number Probe G Ground iate sets of water	3.5 ft. heet if necessary) of continuous Tape Other rater level m	Well no. Rec. hrs pumped for Other (sp (specify) easurements a	PWL measurement 0.5. pecify) s indicated below:
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Pumping water Number of his Method of me Measurement  And I certify the Signed	s shutdown for easurement: from: * Obtain and such other part the about	*** 44.7 ft.  If SWL measurement  Air line  Top of casing a submit appropriate	Elevation 12 (Use additional sont 0.5. Number Probe G Ground iate sets of water	3.5 ft. heet if necessary) of continuous Tape Other rater level m	Well no. Rec. hrs pumped for Other (specify) easurements a plicant or requ y knowledge.	Date measured 12-05-03  PWL measurement 0.5, pecify)  s indicated below:  ired by the Division.
Pumping water  Number of hree Method of method	s shutdown for easurement: from: * Obtain and such other parter	*** 44.7 ft.  If SWL measurement  Air line  Top of casing a submit appropriate	Elevation 12 (Use additional sont 0.5. Number Probe G Ground iate sets of water	3.5 ft. heet ( necessary) of continuous Tape Other rater level m	Well no. Rec.  hrs pumped for  Other (sp (specify)  easurements a  plicant or requ y knowledge.	PWL measurement 0.5.  Pecify)  s indicated below:  ired by the Division.
Pumping water  Number of hree Method of method of method of method of method of method and method and method of meth	s shutdown for easurement: from: * Obtain and such other part the about	*** 44.7 ft.  If SWL measurement  Air line  Top of casing a submit appropriate	Elevation 12 (Use additional sont 0.5. Number Probe G Ground iate sets of water	3.5 ft. heet ( necessary) of continuous Tape Other rater level m	Well no. Rec. hrs pumped for Other (specify) easurements a plicant or requ y knowledge.	PWL measurement 0.5.  Pecify)  s indicated below:  ired by the Division.
Pumping water  Number of hree Method of method	s shutdown for easurement: from: * Obtain and such other parter	*** 44.7 ft.  If SWL measurement  Air line  Top of casing a submit appropriate	Elevation 12 (Use additional sont 0.5. Number Probe G Ground iate sets of water	3.5 ft. heet if necessary of continuous  Tape Other rater level m	Well no. Rec.  hrs pumped for  Other (sp (specify) easurements a  plicant or requ y knowledge.	PWL measurement 0.5.  Pecify)  s indicated below:  ired by the Division.
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## Vogtle Electric Generating Plant - Permit No. 017-0003

#### **Annual Specific Conductance**

Obtained from: Obtained on:

MU-1 Well

12/05/03 138

Value (µmhos/cm):

Rec Well

12/05/03

Obtained from: Obtained on: Value (µmhos/cm):

291

Southern Nuclear Operating Company, Inc. Post Office Box 1295 Birmingham, Alabama 35201-1295 Tel 205.992.5000



Energy to Serve Your World"

File: E.03.34 Log: EV-04-1284

July 28, 2004

#### FEDERAL EXPRESS

Vogtle Electric Generating Plant Ground Water Use Permit No. 017-0003 Semi-Annual Report

Mr. Bill Frechette Municipal & Industrial Groundwater Permitting Unit State of Georgia Environmental Protection Division 2 Martin Luther King, Jr. Drive SE East Tower, Suite 1058 Atlanta, Georgia 30334

Dear Mr. Frechette:

In accordance with standard condition #3 of the Vogtle Electric Generating Plant Ground Water Use Permit (No. 017-0003) and Rule 391-3-2-.08, enclosed is the semi-annual Ground Water Use Report for the first half of 2004. Please note that the amount reported for January 2004 is significantly higher than other months in the reporting period. It has been determined that the totalizer for Well MU-1 malfunctioned during the month and actual water used was substantially less than reported. There is not enough information available to estimate the effect of the totalizer malfunction on water usage in January 2004. Southern Nuclear Operating Company is therefore conservatively reporting the value as shown on the totalizers. Although the reported value is substantially higher than the actual use, no permit limits were exceeded. The totalizer was repaired on January 27, 2004 and subsequent values reported are correct.

If you have any questions, please contact Amy Greene at (205) 992-5809.

Sincerely,

Wayne C. Carr, Manager Environmental Services

WCC/ABG:ahl

Enclosure EV-04-1284 Mr. Bill Frechette State of Georgia Environmental Protection Division Page Two

P. D. Rushton (w/o) bcc:

W. F. Kitchens

A. Harris (w/o) C. L. Buck (w/o)

S. Sundaram (w/o)

D. G. Goodwin

T. D. Blalock (w/o)

J. B. Wetherington (w/o)

SNC Document Management - Vogtle (with receipt)





Permittee Information  Contact Person: W. C. Carr Phone: (205) 992-6387 Email: wccarr@southernco.com  Company / Permittee: Southern Nuclear Operating Company / Vogtle Electric Generating Plant  Address: P. O. Box 1295, Birmingham, AL 35201  (No. and Street) (City) (State) (Zip)  GW Withdrawal Permit No.: 017 - 0003 For six (6) month period from January 2004 thru June 2004  County where well(s) is located: Burke County. GA  This report is on the Cretaceous Sand aquifer(s) used by well(s) numbered MU-MU-2A, TW-1, SW-5, Rec, CW-3, and IW-4  Amount of water pumped from aquifer(s) each MONTH  (in gallons) Method used to
Company / Permittee: Southern Nuclear Operating Company / Vogtle Electric Generating Plant  Address: P. O. Box 1295, Birmingham, AL 35201  (No. and Street) (City) (State) (Zip)  GW Withdrawal Permit No.: 017 - 0003 For six (6) month period from January 2004 thru June 2004  County where well(s) is located: Burke County. GA  This report is on the Cretaceous Sand aquifer(s) used by well(s) numbered MU-MU-2A, TW-1, SW-5, Rec, CW-3, and IW-4  Amount of water pumped from aquifor(s) each MONTH
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County where well(s) is located: <u>Burke County. GA</u> This report is on the <u>Cretaceous Sand</u> aquifer(s) used by well(s) numbered <u>MU-ML-2A</u> , TW-1, SW-5, Rec, CW-3, and IW-4  Amount of water pumped from aquifer(s) each MONTH
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MU-2A, TW-1, SW-5, Rec, CW-3, and IW-4  Amount of water pumped from aquifor(s) each MONTH
Amount of water pumped from aquifor(s) each MONTH
Month/Year System Total from Monthly Average determine pumpag
ALL wells (Total/Days in Month)
January /2004 36257200 gal 1169600 gal 🗵 Flow meter
February /2004 17831800 gal 614900 gal Other (specify below)
March /2004 21041400 gal 678800 gal
April /2004 20878000 gal 695900 gal
May /2004 28661400 gal 924600 gal
June         /2004         20557900         gal         685300         gal         Average hours pumped
145227700 gai per day <u>6.6</u>
Static water level (SWL)*** 44.9 ft. Elevation 155.6 ft. Well no. MU-1 Date measured 06-08-04
Static water level (SWL)*** 44.9 ft. Elevation 155.6 ft. Well no. MU-1 Date measured 06-08-04  Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04
Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)
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Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.5. Number of continuous hrs pumped for PWL measurement 0.5.
Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.5. Number of continuous hrs pumped for PWL measurement 0.5.  Method of measurement:   Air line Probe   Tape   Other (specify)
Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.5. Number of continuous hrs pumped for PWL measurement 0.5.  Method of measurement:   Air line   Probe   Tape   Other (specify)  Measurement from:   Top of casing   Ground  Other (specify)
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Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.5. Number of continuous hrs pumped for PWL measurement 0.5.  Method of measurement:   Air line   Probe   Tape   Other (specify)  Measurement from:   Top of casing   Ground  Other (specify)
Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.5. Number of continuous hrs pumped for PWL measurement 0.5.  Method of measurement: Air line Probe Tape Other (specify)  Measurement from: Top of casing Ground Other (specify)  4.4. Obtain and submit appropriate sets of water level measurements as indicated below:  And such other pertinent information submitted by the applicant or required by the Division.
Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)  Number of hrs shutdown for SWL measurement 0.5. Number of continuous hrs pumped for PWL measurement 0.5.  Method of measurement:   Air line   Probe   Tape   Other (specify)  Measurement from:   Top of casing   Ground   Other (specify)  Obtain and submit appropriate sets of water level measurements as indicated below:
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Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)  Number of his shutdown for SWL measurement 0.5. Number of continuous his pumped for PWL measurement 0.5.  Method of measurement: Air line Probe Tape Other (specify)  Measurement from: Top of casing Ground Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  And such other pertinent information submitted by the applicant or required by the Division.  I certify that the above information is true to the best of my knowledge.
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Pumping water level (PWL)*** 51.4 ft. Elevation 149.1 ft. Well no. MU-1 Date measured 06-08-04  (Use additional sheet if necessary)  Number of his shutdown for SWL measurement 0.5. Number of continuous his pumped for PWL measurement 0.5.  Method of measurement: Air line Probe Tape Other (specify)  Measurement from: Top of casing Ground Other (specify)  *** Obtain and submit appropriate sets of water level measurements as indicated below:  And such other pertinent information submitted by the applicant or required by the Division.  I certify that the above information is true to the best of my knowledge.
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		Department of N	ateral Resourc	<b>65</b> ,		
This for	rm shall be subn	Jse Report	ion twice eac	h year, wit	hin the reportin	g period specified on the
Ground	water Withdraw	ral Permit under S	tandard Con	dition No. 3	3.	
Darmit	taa Tafo musti		(Print or type /	ALL informat	ion)	: .
	itee Informati Person: W. C. Car		Dhana	(305) 503	6202 F	
		·		(205) 992-		wccarr@southernco.com
		thern Nuclear Opera		/ vogue Ele	coric Generating Pi	ant
Address:		Birmingham, AL 3520 nd Street)	<u> </u>	(City)		(State) (Zh)
GW With	drawal Permit No.:		For six (		riod from January	2004 thru June 2004
		ated: Burke County		-) (Maile) Per	100 110111	2001 1110 74110 1001
	ort is on the Oretac		Sit		aquifer(s) used	by well(s) numbered MU-1.
	W-1, SW-5, Rec.		** · · · · · · · · · · · · · · · · · ·		_ uquica(s) uscu	by well(s) hallbeled Mo-11
		Amount of wa			s) each MONTH	
M	onth/Year	Claw Ta	-	llons)		Method used to
		System To ALL w			hly Average Days in Month)	determine pumpage
January	/2004	N/A	gal	N/A	gal	⊠ Flow meter
February	/2004	N/A	gal	N/A	gai	Other (specify below)
March	/2004	N/A	gal	N/A	gai	
April	/2004	N/A	gal	N/A	gal	
May	/2004	N/A	gal	N/A	gal	
June	/2004	N/A	gal	N/A	gal	Average hours pumped
		N/A	gal			per day <u>N/A</u>
Static wa	ter level (5WL)**	* 25.5 ft.	Elevation 142	2.7 ft.	Well no. REC.	Date measured 06-08-04
Pumping	water level (PWL)	*** 45.2 ft.	Elevation 123	3.0 ft.	Well no. REC	Date measured 06-08-04
			(Use additional st			
Number	of hrs shutdown fo					PWL measurement 0.5.
Method c	of measurement:	☐ Air line		☐ Tape		edfy)
Measurer	nent from:		☐ Ground	☐ Othe	r (specify)	
	*** Obtain and	d submit appropria	ate sets of w	ater level n	neasurements a	s indicated below:
	And cuch others	webnant informat	ion cubmitte	d by the ar	anlicant ne romi	red by the Division.
			·—,			red by the Division.
I certif	y that the abov	ve information is	true to the	best of m	iy knowledge.	·
	CABON		<del>, , , , , , , , , , , , , , , , , , , </del>			
Signed Clif Buck		•				
	ry Manager					
Title	#					
	フィフェベム					
Date	1-1-07					
				•		August Augus

# Environmental Protection Department of Natural Resources



	/D	rint or time	ALL information)		
Permittee Information		init or type i	nuu milioninduon)		
Contact Person: Tom Moorer		Phone	: (205) 992-5807	Email:	tcmoorer@southernco.com
Company / Permittee: Southe	ern Nuclear Operatir	ng Company	/ Vogtle Electric G	ienerating Pla	ant
Address: P. O. Box 1295, Birr	ningham, AL 35201				
(No. and			(City)		(State) (Zip)
GW Withdrawal Permit No.: 0	17 - 0003	For six (	6) month period fr	om July 2004	thru December 2004
County where well(s) is locate	ed: Burke County, C	6A		<del>_</del>	
This report is on the <u>Cretaceo</u>			aqu	ifer(s) used I	by well(s) numbered MU-1,
MU-2A, TW-1, SW-5, Rec, CW		er numned f	rom aquifer(s) eac	-b MONTH	
			ilions)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Method used to
Month/Year	System Tota		Monthly A		determine pumpage
	ALL we	is	(Total/Days i	n Month)	
July /2004	30498100	gal	983800	gal	☐ Flow meter
August /2004	29187600	gal	941500	gal	Other (specify below)
September /2004	21705900	gal	723500	gal	ļ <del></del>
October /2004	21755700	gal	701800	gal	
November /2004	21449200	gal	715000	gal	
December /2004	20865900	gal	673100	gal	Average hours pumped
Six Month - Grand Total	145462400	gal			per day <u>6.6</u>
Static water level (SWL)***	46.0 ft. l	Elevation 15	4.53 ft. Well	no. MU-1	Date measured 12-02-04
Pumping water level (PWL)**		Elevation 150	0.33 ft. Well	no. MU-1	Date measured 12-02-04
Number of hrs shutdown for S				pumped for I	PWL measurement <u>0.5</u> .
Method of measurement:	☐ Air line	☑ Probe	□ Таре □	Other (sp	edfy)
Measurement from:	☐ Top of casing	Ground	Other (spe	cify)	
*** Obtain and s	ubmit appropriat	e sets of w	ater level measu	irements as	s indicated below:
From 1-5 wells - a set from 0					
	ONLY 2 WELL ONLY 3 WELL	<del>-, :                                   </del>			st yield well(s) using the same hal wells, follow this format:
	ONLY 4 WELL	<del></del>	well(a) each that		ini wela tolou dia tolliali.
And such other pe	rtinent informatio	on submitte	ed by the applica	nt or requi	red by the Division.
I certify that the above	information is t	true to the	best of my kn	owledge.	
car 1		•	Parks sum	Danasi '	,
Signed				Report	tal Protection Division
			M&I G+^	iinawater i i	nif
Clifton L. Buck, Chemistry Ma	nager		M&I Gro		·
Clifton L. Buck, Chemistry Ma Title	nager		Floyd To	undwater U wer East, Su Luther King	ite 1058
	nager		Floyd To- 2 Martin l	wer East, Su	ite 1058 Jr. Drive

# Environmental Protection Department of Natural Resources



Groundwater Use Report
This form shall be submitted to the Division twice each year, within the reporting period specified on the

Groundwater Withdrawal	Permit under S	tandard Con	dition No. 3	3, '		
		(Print or type /	ALL informat	ion)		<u>: :                                  </u>
Permittee Information	3					
Contact Person: Tom Moorer		Phone	(205) 992-	5807 Email:	tcmoorer@southernco.	com
Company / Permittee: Southe	ern Nuclear Opera	ting Company	/ Vogtle Ele	ctric Generating	Plant	
Address: P. O. Box 1295, Birn	· ·	)1		· · ·		:
(No. and			(City)			Zip)
GW Withdrawal Permit No.: (	)17 - 0003	For six (	5) month per	riod from July 20	04 thru December 2004	<u> </u>
County where well(s) is locate		. GA				·
This report is on the <u>Cretaceo</u> <u>MU-2A, TW-1, SW-5, Rec. CW</u>				_ aquifer(s) used	by well(s) numbered M	<u>U-1.</u>
		iter pumped fi	om aquifer(	s) each MONTH		
Month/Year		(in ga	lions)		Method used	to
PROJECT TEAT	System To ALL w			hly Average Pays in Month)	determine pun	page
1	ALCV	gal	(TOLSI) L	gal	☐ Flow meter	
		gai		gal	Other (specify be	low)
		gai		gai	Color (specify be	.044)
		gal	,	gal	,	<del></del>
/		gal		gal		
1		gal		gal	Average hours pump	ed
Six Month - Grand Total		gal	7 5 7		per day	
Static water level (SWL)***	28 ft.	Elevation 140	).2 ft.	Well no. Rec	Date measured 12-	02-04
Pumping water level (PWL)**	* 47.4 ft.	Elevation 120	).8 ft.	Well no. Rec	Date measured 12-	02-04
		(Use additional sh				
Number of hrs shutdown for S	WL measurement	0.5. Number	of continuou	s hrs pumped fo	r PWL measurement 0.5.	
Method of measurement:	Air Ilne	□ Probe	☐ Tape	Other (s	pecify)	
Measurement from:	▼ Top of casing	☐ Ground	Othe	r (specify)		· · · · · · · · · · · · · · · · · · ·
*** Obtain and s	ubmit appropria	ate sets of w	ater level n	neasurements	as indicated below:	
	MLY 1 WELL					
From 6-10 wells - a set from C	ONTA 3 METT		rake readi	ngs iyom yie nigi h time. For addit	nest yield well(s) using the lonal wells, follow this for	le same .
From 16-20 wells - a set from C			130.1(5) 540	i district a secondari		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
And such other pe	tinent informat	ion submitte	d by the ar	plicant or requ	ired by the Division.	
I certify that the above	information is	true to the	best of m	y knowledge		•
OLO /			Pot	turn Report	To	
Signed		<del></del>		-	ntal Protection Division	,
				I Groundwater		•
Clifton L. Buck, Chemistry Ma Title	nager		_	d Tower East, S		
· ·			2 M	artin Luther Kir	g Jr. Drive	
01-05-05	<u></u>	<del></del>	Atla	nta, Georgia 30	334	
Date						

## Vogtle Electric Generating Plant - Permit No. 017-0003

## **Annual Specific Conductance**

Obtained from: Obtained on:

MU-1 Well 12/02/04

Value (µmhos/cm):

174

Obtained from: Obtained on:

Rec Well 12/02/04 170

Value (µmhos/cm):