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December 20, 2002

Ms. Natalie Harris
Knoxville Environmental Assistance Center
Tennessee Department of Environment
and Conservation
2700 Middlebrook Pike
Suites 210 and 220
Knoxville, Tennessee 37921-5602

Dear Ms. Harris:

TENNESSEE VALLEY AUTHORITY (TVA) - KINGSTON FOSSIL PLANT (KIF) - NPDES PERMIT NO. TN0005452 - APPLICATION FOR RENEWAL

Enclosed are two copies of the NPDES renewal packet for KIF consisting of EPA Form 1, site map, Form 2C, flow schematic, Form 2E, and NPDES permit address form. TVA would appreciate consideration of the following in the renewed permit.

Outfall 001

As indicated in previous correspondence, TVA plans to install NOx-control technology at KIF that may result in ammoniated discharges at Outfall 001 and ultimately Outfall 002. TVA is investigating various options to mitigate the ammoniated discharge including rerouting the 001 discharge to the condenser cooling water discharge, installing a diffuser at the 001 discharge or modeling a submerged discharge at 001 to facilitate mixing. Worst case concentrations of ammonia introduced from NOx-control technology are expected to be approximately 2.46 mg/l assuming no biological uptake; however, based on experience at KIF during NOxTech testing and operation of Selective Catalytic Reduction equipment at other TVA facilities, concentrations are expected at much lower levels in the ash pond discharge during biologically active periods. TVA will present outcomes from modeling the diffuser and submerged open pipe (if appropriate) as soon as they are complete.

TVA requests inclusion of authorization to discharge ammoniated wastewater in the renewed permit such that ammoniated discharges scheduled to occur beginning in January 2004 are authorized.

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Outfall 002

- 1. TVA requests flexibility in the renewed permit to allow for UV treatment of toxicity samples, if granted, without an additional permit modification. TVA submitted a request dated February 22, 2002, to treat toxicity test samples with UV to deal with pathogenic interference at three TVA facilities in Tennessee. The Division of Water Pollution Control (the Division) responded and requested additional information which TVA provided in a letter dated September 17, 2002. While the Division has not yet responded to the latest correspondence, TVA requests that the permit be written such that further modification to the permit to incorporate permission to treat samples, if granted, will not be necessary.
- 2. Enclosed is a summary of the reasonable potential evaluation and toxicity test results since the last renewal application which was submitted in 1999. TVA requests that the current annual frequency for toxicity testing at Outfall 002 be maintained.
- 3. TVA requests continuation of the 316(a) variance as incorporated in the current permit. Enclosed are additional data supporting the request. As presented in the enclosed report, TVA believes that the thermal discharges from KIF do not have a negative impact on maintenance of a balanced indigenous population in the Clinch River/upper Watts Bar Reservoir.

Outfall 005

Outfall 005 is an internal waste stream that consists of discharges from the metal cleaning waste pond complex (iron and copper ponds). This pond does not discharge often and was not discharging at the time of the permit renewal sampling. Historical results reported are from a discharge in January 2002 and are only for flow, iron and copper as required to be monitored by the current NPDES permit.

Outfalls 006, 007 and 008

TVA requests that current permit provisions for these outfalls be maintained. These outfalls discharge to the plant intake channel where they mix with the plant intake flow of 1316 million gallons per day (mgd) average flow through the plant.

TVA did not sample Outfall 008 since flow normally occurs only in response to a rainfall event. Historically, the drainage area of 008 has received ash sluice water from occasional ruptured sluice lines. TVA believes that the effluent quality data from 001 very conservatively represent the discharge from 008.

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If you have any questions or need additional information about this application for renewal, please contact Lindy Printz Johnson at (423) 751-3361 in Chattanooga, or you may email her at lpjohnson@tva.gov.

Janet K. Watts Manager Environmental Affairs 5D Lookout Place

GGP:LPJ:SMF Enclosures cc (Enclosures):

L. F. Campbell, KFP 1A-KST
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Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

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Enclosures

Tennessee Valley Authority (TVA) - Kingston Fossil Plant (KIF) - NPDES Permit No. TN0005452 - Application for Renewal

Current Whole Effluent (WET) Toxicity Limit:

7-day or 3-brood $IC_{25} = 100\%$

effluent (1.0 TUc)

Monitoring Frequency = Annual

Proposed Whole Effluent (WET) Toxicity Limit:

Biomonitoring frequency remaining at annual (1/year), with compliance for fathead minnows based on results from UV treated samples.

In accordance with EPA's recommendation (Technical Support Document for Water Quality-based Toxics Control, EPA/505/2-90-001), KIF Outfall 002 should retain its WET Limit based on a demonstration of Reasonable Potential (RP) for excursions above the ambient water quality acute and chronic (CMC and CCC) criteria. This demonstration of RP was not due to toxicity observed in Outfall 002, but to insufficient flow in the Clinch River for mixing with the combined CCW/ashpond discharge to meet the CMC and CCC criteria of 0.3 TUa and 1.0 TUc, respectively (See "Acute Toxicity" and "Chronic Toxicity" sections on last page.).

Toxicity testing during the current permit period has not indicated acute toxicity (LC₅₀s > 100 percent; < 1.0 TUa) to either test organism (Table 1). No chronic toxicity has been demonstrated in testing with daphnids ((IC₂₅s > 100 percent; < 1.0 TUc), however one fathead minnow test resulted in an IC25 of 16.7 % (6 TUc). Reduced survival was also shown in intake samples tested in conjunction with the compliance test (Table 2). The required follow-up test demonstrated no toxicity. TVA requested that the initial test be invalidated due to evidence of fish pathogen interference seen both in the May 19-26 Kingston biomonitoring and in an extensive investigation conducted by TVA to determine the nature and source of interference in fish tests at three of TVA's Tennessee power production facilities. TDEC's response was that TVA should request sample pretreatment (i.e. exposure to UV radiation) to eliminate fish pathogens prior to fathead minnow testing. Based on tests conducted under the current and previous permits, there appears to be very little facility-induced toxicity associated with this discharge, which usually mimics water quality in the intake (i.e. the Clinch and Emory Rivers upstream). TVA requests that WET biomonitoring continue on an annual frequency and use UV treated samples for fathead minnow compliance determination. Daphnid tests will continue to use untreated samples.

KIF Documentation:

Table 1. Summary of KIF Outfall 002 WET Biomonitoring Results

				Results Survival)	Chronic Results
	Test Date	Test Species	% Survival in 100% Sample	LC ₅₀ /Toxicity Units (TUa)	IC ₂₅ /Toxicity Units (TUc)
	IC				
	<u>IC₂₅</u> 14. May 20-27, 2001	Ceriodaphnia dubia	90	>100/< 1.0	
	May 19-26, 2001	Pimephales promelas	68		16.7/6.0
Retest	15. June 12-19, 2001	Ceriodaphnia dubia	_*	_*	_*
	,-,	Pimephales promelas	100	>100/< 1.0	>100/< 1.0
	16, Feb. 13-20, 2001	Ceriodaphnia dubia	100	>100/< 1.0	>100/< 1.0
	,	Pimephales promelas [†]	100		
	17. Nov. 5-12, 2002	Ceriodaphnia dubia	100	>100/< 1.0	>100/< 1.0
		Pimephales promelas [†]	100		
	n		 7	4	4
	Maximum		100%	>100/< 1.0	16.7/6.0
	Minimum		68%	>100/< 1.0	>100/< 1.0

^{*}Single species retest.

Table 2. Fish Survival in Outfall 002 and Intake

		7-Day Fish S	Survival (%)
	Sample Date	Undiluted Outfall 002	Intake
	May 19-26, 2001	45	70
Retest	June 12-19, 2001	100	100
	Feb. 13-20, 2002	100	70
	Nov. 5-12, 2002	100	100

[†] UV treated fathead minnow test conducted simultaneously with regular compliance test.

DILUTION

Outfall 002 Long Term Average (LTA) = 1316 MGD

Receiving Stream 1Q10 = 155.8 MGD (From Appendix 1, Page R-15 of the current permit, effective March 1, 2001.)

Dilution Factor (DF): $DF = \frac{Qs}{Qw} = \frac{155.8}{1316} = 0.118$

$$DF = \frac{Qs}{Ow} = \frac{155.8}{1316} = 0.118$$

ACUTE TOXICITY

Insufficient dilution is available for demonstrating no reasonable potential for exceeding the acute instream WET criterion (CMC = 0.3 TUa). The dilution factor would need to be greater than 3.0 in order to conduct that demonstration for acute toxicity.

CHRONIC TOXICITY

Insufficient dilution is available for demonstrating no reasonable potential for exceeding the chronic instream WET criterion (CCC = 1.0 TUc). The dilution factor would need to be greater than 1.0 in order to conduct that demonstration for chronic toxicity.

Results of Biological Monitoring in the Vicinity of Kingston Fossil Plant During Autumn 2001 in Support of a Continued 316(a) Thermal Variance

Introduction

Section 316(a) of the Clean Water Act allows point-source discharges of heated water to exceed State water quality thermal criteria based on demonstrating maintenance of "Balanced Indigenous Populations" (BIP) of aquatic life. Kingston Fossil Plant (KIF) is operating under a 316(a) thermal variance that has been administratively continued with each permit renewal based on studies conducted in the mid 1970's. The requirement for conducting 316(a) studies in Tennessee comes from EPA Region IV guidance to the States requiring future variance requests be granted on new data generated to show aquatic communities meet the BIP standard. In response to a letter from TVA Fossil Power Group to Tennessee Department of Environment and Conservation (TDEC), dated May 9, 2001, requesting assessment of adequacy and scope of proposed reservoir fish assemblage index (RFAI) studies for continuance of thermal variances, Tennessee approved the RFAI studies on September 17, 2001. Based on that agreement, the current KIF NPDES permit TN0005452, effective March 1. 2001, requires that RFAI samples be taken once every two years to demonstrate that KIF operation is not impacting BIP. In response to this requirement, TVA initiated a study that will evaluate fish communities in areas immediately upstream and downstream of KIF between the years 2001 and 2003. The purpose of this document is to briefly summarize and provide TDEC the results from monitoring during the first sample period - autumn 2001. A comprehensive report data will be made available on request. The NPDES permit renewal application will be submitted to request renewal of the section 316(a) variance for this facility on or before December 31, 2002.

TVA initiated a Valley-wide reservoir Vital Signs (VS) monitoring program in 1990 to evaluate ecological conditions in major reservoirs. At the core of this monitoring effort is a multi-metric approach to data evaluation. Five environmental indicators are used: dissolved oxygen, chlorophyll, sediment quality, benthic macroinvertebrate community, and the fish community. In the beginning, specific evaluation techniques had to be developed for each indicator. The outcome of this effort was development of multi-metric evaluation techniques for the fish assemblage (Reservoir Fish Assemblage Index - RFAI), as described below. These multi-metric evaluation techniques have proven successful in TVA's monitoring efforts as well as other Federal and State monitoring programs and will form the basis of evaluating these monitoring results.

Methods

Sampling Locations

Two sample locations, one upstream and one downstream of the plant discharge, were selected in upper Watts Bar Reservoir. The KIF discharge enters the Clinch River at Clinch River Mile (CRM) 2.5. For the fish community, the upstream sample site was centered at CRM 4.4, and the downstream site was centered at CRM 1.5.

TVA's VS program has four sample sites on Watts Bar Reservoir (Forebay TRM 531.0, Transition TRM 560.8, Tennessee River Inflow TRM 601, Clinch River Inflow CRM 22.0); one of which (Transition) is relatively close to KIF. The VS reservoir inflow sample site in the Tennessee River is near Fort Loudoun Dam, while the Clinch River inflow sample site is near Melton Hill Dam (MHD).

Fish Community

Fish samples for upstream and downstream locations in upper Watts Bar Reservoir consisted of fifteen 300-meter electrofishing runs (approximately 10 minutes duration) and ten experimental gill net sets (five 6.1 meter panels with mesh sizes of 2.5, 5.1, 7.6, 10.2, and 12.7 cm) per site. Attained values for each of the 12 metrics were compared to reference conditions for transition zones of lower mainstream Tennessee River reservoirs and assigned scores based upon three categories hypothesized to represent relative degrees of degradation: least degraded --5; intermediate --3; and most degraded --1. These categories are based on "expected" fish community characteristics in the absence of human-induced impacts other than impoundment. Individual metric scores for a site are summed to obtain the RFAI score. Comparison of the attained RFAI score from the potential impact zone to a predetermined criterion has been suggested as a method useful in identifying presence of normal community structure and function and hence existence of BIP. For multi-metric indices, two criteria have been suggested to ensure a conservative screening of BIP. First, if an RFAI score reaches 70% of the highest attainable score (adjusted upward to include sample variability), and second, if fewer than half of RFAI metrics potentially influenced by thermal discharge receive a low (1) or moderate (3) score, then normal community structure and function would be present indicating that BIP existed, and, hence, the heated discharge would meet screening criteria and no further evaluation would be needed. The range of RFAI scores possible is from 12 to 60. As discussed in detail below, the average variance for RFAI scores in TVA reservoirs is 6 (±3). Therefore, any location that attains an RFAI score of 45 (42 + our upward sample variance of 3) or higher would be considered to have BIP. It must be stressed that scores below this endpoint do not necessarily reflect an adversely impacted fish community. The endpoint is used to serve as a conservative screening level, i.e., any fish community that meets these criteria is obviously not adversely impacted. RFAI scores below this level would require a more in depth look to determine if BIP exist. An inspection of individual RFAI metric results would be an initial step to help identify if KIF operation is a contributing factor. This approach is appropriate if a validated multi-metric index is being used and scoring criteria applicable to the zone of study are available.

Upstream/downstream stations can be used to identify if KIF operation is adversely impacting the downstream fish community. A similar or higher RFAI score at the downstream site compared to the upstream (control) site is used as one basis for determining presence/absence of KIF operational impacts on the resident fish community. Definition of "similar" is integral to accepting the validity of these interpretations. The Quality Assurance (QA) component of VS monitoring deals with how well the RFAI scores can be repeated and is accomplished by collecting a second set of samples at 15-20% of the sites each year. Experience to date with the QA component of VS shows that comparison of RFAI index scores from 54 paired sample sets collected over the past seven years range from 0 to 18 points, the 75th percentile is 6, the 90th percentile is 12. The mean difference between these 54 paired scores is 4.6 points with 95% confidence limits of 3.4 and 5.8. Based on these results, a difference of 6 points or less is the value selected for defining "similar" scores between upstream and downstream fish communities. That is, if the downstream RFAI score is within 6 points of the upstream score, the communities will be considered similar and it will be concluded that KIF has had no effect. It is important to bear in mind that differences greater than 6 points can be expected simply due to method variation (25% of the QA paired sample sets exceeded that value). When such occurs, a metric by metric examination will be conducted to determine what caused the difference in scores and the potential for the difference to be thermally related.

Modifications in the metrics used in RFAI are being evaluated that will make the index even more reflective of reservoir conditions. Future versions of the RFAI will likely include refined metrics. Comparisons will be made between present and improved RFAI scores.

Results

Fish Community

RFAI results from the site downstream of KIF exceeded the 70% BIP criteria, adjusted upward to include sample variability (i.e., RFAI score ≥45), indicating that the resident fish community below the KIF discharge was above the screening level in autumn 2001. Table 1 provides individual metric scores and the overall RFAI score for upstream and downstream stations. These values (46 for downstream and 48 for upstream) were within the 6 point acceptable variation. Resident fish communities at these locations reached 76.6 and 80.0 percent of their potential, respectively. Therefore, it can be concluded that the KIF heated effluent is not adversely impacting the resident fish community in the Tennessee River in the vicinity of the plant discharge. Electrofishing and gill netting catch rates for individual species from both sites are listed in Table 2. No State or Federal protected fish species were collected, or are known to occur in the vicinity of KIF.

RFAI scores obtained from Vital Signs monitoring sites located upstream and downstream of the KIF discharge, though not in the immediate vicinity, over the past several years revealed similar fish community results (Table 3). Since 1993, the average RFAI score for the upstream site on the Clinch River was 44 and the upstream site on the Tennessee River was 43.6 (73.3 and 72.2% of the maximum score, respectively). Averages for two downstream sites were 47.4 and 42.1 (79.0 and 70.2% of the maximum score, respectively). All these scores are higher than the adjusted 70% criteria for designation as BIP. However, the nearer downstream site was approximately 10 river miles below the discharge(CRM 2.7) (10 miles above Transition and 21 miles below MHD), and the above plant site on the Clinch River was 21 river miles upstream, immediately below Melton Hill Dam. These data indicate that the plant discharge is not adversely impacting the broader fish community of upper Watts Bar Reservoir.

Table 1. Individual metric scores and the overall Reservoir Fish Assemblage Index (RFAI) score for upstream and downstream sites of the Kingston Fossil Plant discharge in the vicinity of Watts Bar Reservoir, October, 2001.

		Down	stream	Ups	tream
		CRI	M 1.5	CR	M 4.4
Metric	Sample Gear	Obs	Score	Obs	Score
A. Species richness and composition					_
1. Number of species		35	5	35	5
2. Number of sunfish species		6	5	6	5
3. Number of sucker species		4	3	5	3
4. Number of intolerant species		3	3	4	3
5. Percent tolerant individuals	Electrofishing	25.36	1.5	14.07	2.5
	Gill Netting	17.32	2,5	20.19	1.5
6. Percent dominance	Electrofishing	44.92	1.5	51.95	1.5
	Gill Netting	16,88	2.5	33,33	1.5
7. Number of piscivore species		11	5	10	5
B. Trophic composition					
8. Percent omnivores	Electrofishing	25.11	1.5	15.15	2.5
	Gill Netting	45.02	0.5	45.07	0.5
9. Percent insectivores	Electrofishing	63.96	2.5	72.29	2.5
	Gill Netting	11.69	1.5	10.80	1.5
C. Reproductive composition					
10. Number of lithophilic spawning species		5	3	8	5
D. Fish abundance and health					
11. Average number of individuals	Electrofishing	78.07	1.5	61.60	1.5
	Gill Netting	23.10	1.5	21.30	1.5
12. Percent anomalies		0.93	5	1.41	5
RFAI			46	-	48
			Good		Good

Scored with transition criteria

^{*}Percent composition of the single most abundant species

Table 2. Species collected and catch per effort during autumn electrofishing (catch per 300-m run and per hour) and gill netting (catch per net-night) at the upstream and downstream stations of Kingston Fossil Plant, Watts Bar Reservoir, 2001.

	Do	wnstream Cl	RM 1.5	Ul	ostream CRN	1 4.4
	Electr	ofishing	Gill Netting		fishing	Gill Netting
Common Name	Catch Per	Catch Per	Catch Per Net	Catch Per	Catch Per	Catch Per Net
	Run	Hour	Night	Run	Hour	Night
Paddlefish			0.10			
Spotted gar	0.13	0.67				
Skipjack herring			2.10			2.00
Gizzard shad	16.87	85,19	3.90	5.80	27.27	3.50
Threadfin shad	0.07	0.34	0.20	0.13	0.63	
Common carp	1.27	6.40	0.10	2.33	10.97	0.80
Golden shiner	0.60	3.03		0.07	0.31	•
Emerald shiner	2.93	14.81		0.73	3.45	
Spotfin shiner	3.60	18.18	•	3.67	17.24	
Bluntnose minnow	0.13	0.67	-	0.13	0.63	•
River carpsucker	0.07	0.34	•			*
Smallmouth buffalo	0.53	2.69	1.20	0.47	2.19	
Black buffalo			0.30	0.07	0.31	0.20
Spotted sucker	0.73	3.70	0.30	0.53	2.51	0.90
Black redhorse	_			0.07	0.31	
Golden redhorse						0.10
Blue catfish		-	3.20			3.50
Channel catfish	0.13	0.67	1.70	0.47	2.19	1.60
Flathead catfish	0.13	0.67	0.40	0.07	0.31	0.30
White bass	2,22		0.50	0.13	0.63	1.50
Yellow bass		•	1.90	0.13	0.63	3.60
Striped bass	•	•	1.40	0,12	0.02	0.20
Hybrid striped bass	•	•	0.20	• .	•	3.20
Warmouth	0.13	0.67	0,20	0.07	0.31	
Green sunfish	0.73	3.70	•	0.27	1.25	·
Bluegill	35.07	177.10	1.40	32.00	150.47	0.30
Longear sunfish	0.73	3.70	0.10	0.93	4.39	0.50
Redbreast sunfish	0.33	1.68	0.10	0.20	0.94	•
Redear sunfish	3.73	18.86	0.30	4.53	21.32	0.50
Hybrid sunfish	3.75	10.00	0.50	0.07	0.31	0.50
Smallmouth bass	0.40	2.02	•	0.40	1.88	•
Spotted bass	1.20	6.06	0.70	1.00	4.70	0.40
Largemouth bass	6.40	32,32	0.40	5.73	26.96	0.10
White crappie	0.13	0.67	0.60		20,50	0.10
Black crappie	0.13	0.34	1.10	0.13	0.63	0.30
Snubnose darter	0.07		1.10	0.13	0.03	0.0
Yellow perch	0.20	1.01	•	0.07	1,57	•
Logperch	0.20	1.68	•	0.33	0.31	•
Sauger	0.55		0.40		V.J.1	0.90
Freshwater drum	0.27	1.35	0.40	0.07	0.31	0.50
			0.00	0.07	4.39	0.50
Brook silverside	1.13	5.72				21.2
Totals	78.04	394.24	23.1	61.60	289.63	21.3
Number Samples	15		10	15		10
Number Fish Collected	1171		231	924	l	213

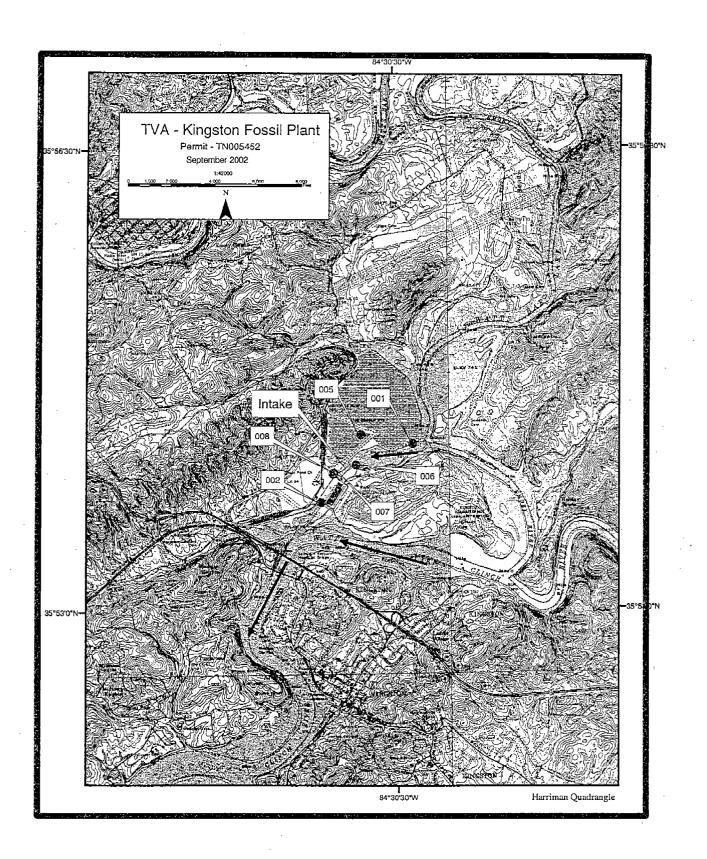
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Table 3. Recent (1993-2001) RFAI scores collected as part of the Vital Signs monitoring program upstream and downstream of Kingston Fossil Plant, Watts Bar Reservoir.

			<u> </u>			Ye	ar				
Site	Location	1993	1994	1995	1996	1997	1998	1999	2000	2001	Ave.
Upstream	CRM 22	44	40		48		46		42		44
-	TRM 601	38	46		40		50		44		43.6
Downstream	TRM 560.8	53	46		42		48		48		47.4
	TRM 531	39	43		41		45	38	45	44	42.1

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Y TRILIZAT YV Y COR ROOD /	////	/////	////	///	//		label has been provided. Re for detailed item description		
77777	7/7/	////			77		authorizations under which	this data is	collected.
	T CHARACTI		etermine whether y	ou need to s	ubmit an	permit application forms to	the EPA, if you answer "yes" t	o any quesi	tions, you
must submi	il this form an	d the supplemental fo	orm listed in the pa	arenthesis fol	llowing th	e question. Mark "X" in the	box in the third column if the su	pplemental	l form is
		no" to each question, ons. See also, Sectio					our activity is excluded from per	mit require	ments; see
	·-···	· · · · · · · · · · · · · · · · · · ·		MARK X	1	•	OUECTIONS		MARK 'X'
	arguirio	QUESTIONS	YES		ORM ACHED	SPECIFIC	QUESTIONS	YES	NO FORM ATTACHED
		wned treatment wo		·			either existing or proposed)	 	
(FORM 2A)		ige to waters or the	0.3.7	, X			animal feeding operation or tion facility which results in		X
C. Is this a faci	dify which our	rently results in disch	16	17	18	~	of the U.S.? (FORM 2B) (other than those described	19	20 21
		er than those describ			χľ	in A or B above) which v	vill result in a discharge to	1	x
A or B above	e? (FORM 20	C)				waters of the U.S.? (FC	ORM 20)	<u> </u>	
. Does ar will	this facility tr	eat, store, or dispose	22 of	23	24 F	. Do you or will you inject	at this facility industrial or	25	26 27
hazardous	wastes? (FC	экм э)		X		municipal effluent below taining, within one quart	the lowermost stratum con-		X
			28	29	30		drinking water? (FORM 4)	31	32 33
		t this facility any prod n are brought to the s			F		at this facility fluids for special ng of sulfur by the Frasch		
face in conn	ection with co	nventional oil or natu	ırai İ	x			of minerals, in situ combus-	į	x ·
- ,		is used for enhanced pas, or inject fluids for				tion of fossil fuel, or reco (FORM 4)	very of geothermal energy?		
storage of li	quid hydrocar	bons? (FORM 4)	34	35	36	(FORIVI4)		37	38 39
		stationary source wategories listed in the					stationary source which is trial categories listed in the		
		potentially emit 100 to		x	-		rill potentially emit 250 tons		x l
		nt regulated under the ect or be localed in a			-		ant regulated under the Clean be located in an attainment		
	area? (FOR		40	41	42	area? (FORM 5)	De localed in an attaniment	43	44 45
II. NAME OF F			7 7 7						7 7 7 7
SKIP U	<u>s; ;T;\</u>	/¦A¦ ;K;I ;N	1;'G;'S;'T;'O;	<u>N</u> ; ;F;	o;s;s	<u> </u>	N',T', ', ', ', ', ', ', ', ', ', ', ', ', '	· · ·	
15 16-29 30 V. FACILITY C	ONTACT								69
			ME & TITLE (last				B. PHONE (a.		1 1 1 1
	<u>E </u>	<u>\'N¦L¦, ¦M¦A</u>	\'s\o\u\D\	's,'v.	P	- 'o's 's 'I 'L '	O'P 4, 2, 3 7, 5	1 3	
15 16 /. FACILITÝ M	AILING ADDI	RESS					45 46 - 48 49 -	.51 L5	2 - 55
		A	STREET OR P.C						·
3 1, 1, 0,	_1,	\',R',K',E',T',	STRE	<u> </u>	L	, 3,K, , , , , , ,			*
15 16		B. CITY	OR TOWN			C. STATE	45 D. ZIP CODE		
4 C H A	1, A, T, T	7 1 1 1 1			1 1	T.N	3, 7, 4, 0, 2		
15 16						40 41 42	47 - 51	************	****
/I. FACILITY L	OCATION	A, STREET, ROUT	TE NO. OR OTHER	R SPECIFIC	IDENTIF	IER			
5 7 1 4	s.w.A			1 1	1 1	1 1 1 1 1 1 1			
15 16							45		
		B. COUNT	TY NAME	<u> </u>		··			
				1 1 1	1 [70			•
R,O,A,	N,E, ,								
R,O,A,	N,E, ,	C. CITY	OR TOWN			. D. STATE	E.ZIP CODE F. C	CUNIY C	ODE
46 T T			OR TOWN	1 1 1	1 1		 	COUNTY C	ODE
	RI MA	C. CITY	OR TOWN	1 1 1	1 1	D, STATE	3, 7, 7, 4, 8 47, 51	52 - 54	

CONTINUED FROM PAGE 1	
VII. SIC CODES (4-digit, in order of priority)	B OF COND
A. FIRST	B. SECOND
7 4 9 1 1 Electric Services	7
15 16 - 19 C. THIRD	15 16 - 19 D. FOURTH
C (specify)	C (specify)
7	
15 16 19	15 16 - 19
VIII. OPERATOR INFORMATION	15 10 - 15
A. NAME	B. Is the name listed as
	Item VIII-A also the
TTENNESSEE VALLEY AUTHORI	T Y owner?
8 , , , , , , , , , , , , , , , , , , ,	XYES NO
15 16	55 66
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer be	px; if "Other", specify.) D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state)	(specify)
S = STATE O = OTHER (specify)	A 4, 2, 3 7, 5, 1 3, 0, 1, 3 15 16 - 18 19 - 21 22 - 25
P = PRIVATE 56 E. STREET OR P.O. BOX	15 16 - 18 19 - 21 22 - 25
E. STREET OR F, 0, BOX	
11101 MARKET STREET IR OK	
1, 1, 0, 1, ,M,A,R,K,E,T, ,S,T,R,E,E,T, ,L,P,-,3,K, ,	<u> </u>
F. CITY OR TOWN	55 G, STATE H, ZIP CODE IIX. INDIAN LAND
F. CATOR IOWN	
TICHAT TANCOOA	T,N 3, 7, 4, 0, 2 YES XNO
15 16	40 41 42 47 - 51 52
X. EXISTING ENVIRONMENTAL PERMITS	79 71 74 77 91 94
A. NPDES (Discharges to Surface Water) D. PSD (Air Emissions from	Proposed Sources)
	
9 N T,N,0,0,0,5,4,5,2, , , , 9 P , , , , , ,	
15 16 17 18 30 15 16 17 18	'''''' 30
B. UIC (Underground Injection of Fluids) E. OTHER (s,	
	(specify)
9 U R,O,A, 0, 1, 5, , , , , , , , , 9 5, 4, 8, 4, 0, 1,	, , , , , TITLE V
15 16 17 18 30 15 16 17 18	30
C. RCRA (Hazardous Wastes) E. OTHER (s	pecify)
CTI TITITITI	(specify)
9 R T,N,R, 0, 5, 1,	7, 8, 7, , , , STORMWATER MSGP
15 16 17 18 30 15 16 17 18	30
XI. MAP	
Attach to this application a topographic map of the area extending to at least one mile beyor	d property boundaries. The map must show the outline of the
facility, the location of each of its existing and proposed intake and discharge structures, each	
facilities, and each well where it injects fluids underground. Include all springs, rivers and of	ther surface water bodies in the map area. See instructions
for precise requirements. XII. NATURE OF BUSINESS (provide a brief description)	
All DATONE OF BOSINESS (provide a line) description)	
	·
Kingston Stream Plant is a fossil fueled, steam electric generating	
on Watts Bar Reservoir at Clinch River mile 2.6. The plant has ni	ne coal fired units with a combined rated
generating capacity of 1,700 megawatts.	i
	·
·	
•	į
	,
XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally examined and am familiar with the	nformation submitted in this application and all attachments and
that, based on my inquiry of those persons immediately responsible for obtaining the in	ntormation contained in the application, I believe that the
information is true, accurate and complete. I am aware that there are significant penal	ues for submitting raise information, including the possibility of
fine and imprisonment. A. NAME & OFFICIAL TITLE (type or print) B. SIGNATURE	IC. DATE SIGNED
Masoud Bajestani, Senior Vice President	10,10,10, 117/12/02
Fossil Power Group	(Ujur) y 1 4/1/102
].	
COMMENTS FOR OFFICIAL USE ONLY	/ /
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	/,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
15 16	
EPA Form 3510-1 (8-90)	
• •	



TN8640006682

Form Approved OMB No. 2040-0086 Approval expires 5/31/92

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OFFICIAL USE ONLY (effluent guidelines sub-categories)

***U-S-ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER **FORM** EPA 2CEXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS NPDES Consolidated Permits Program I. OUTFALL LOCATION For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. A. OUTFALL B. LATITUDE C. LONGITUDE D. RECEIVING WATER (name) NUMBER (list) 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN. 3. SEC. 001 35 54 15 84 30 15 Plant Intake Canal (to Clinch River) 35 45 84 002 53 31 15 Clinch River Plant Intake Canal (to Clinch River) via Outfall 001 005 35 54 15 84 31 Ö 30 Plant Intake Canal (to Clinch River) 007 35 54 0 84 0 30 Plant Intake Canal (to Clinch River) 008 35 54 0 84 0 II. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities) provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary 1. OUT-3. TREATMENT 2. OPERATION(S) CONTRIBUTING FLOW b. LIST CODES FROM TABLE 2C-1 FALL NO b. AVERAGE FLOW a DESCRIPTION a. OPERATION (list) (list) (înclude units) 001 Ash Pond 40.483 MGD Treatment occurs in a 118 acre settling pond. Ash and other solids remain in the pond and are physically removed periodically. Treatment for 001 includes: U (1) Settling 2 (2) Neutralization K (3) pH Adjustment (lime addition Χ Χ (4) Discharge to surface 4 Α water via Plant Intake DSN 001 receives flow from the Channel. С following sources: (5) Reuse of treated effluent 4 for cooling water 0.180 MGD Redwater wetlands (a) Precipitation (0.010 MGD) (0.170 MGD) (b) Seepage from Ash Pond Coal yard runoff pond which 0.145 MGD includes: (0.1045 MGD) (a) Coal pile area drainage (0,0055 MGD) (b) Coal Conveyer area Drainage (c) Utility building area drainage (0.035 MGD) (d) Fire Protection Flush (0.000064 MGD)

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Form Approved

OMB No. 2040-0086

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U.S. ENVIRONMENTAL PROTECTION AGENCY FORM. APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EPA 2C EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS NPDES Consolidated Permits Program I. OUTFALL LOCATION For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. A. OUTFALL B. LATITUDE C. LONGITUDE D. RECEIVING WATER (name) NUMBER (list) 1 DEG. 2 MIN 3. SEC. 1. DEG. 2. MIN. 3. SEC II. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item 8. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. For each outfall, provide a description of (1) All operations contributing wastewater to the effluent, including process wastewater sanitary wastewater, cooling water, and storm water runoff, (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary, 1. OUT-2. OPERATION(S) CONTRIBUTING FLOW FALL NO a. OPERATION (list) b. AVERAGE FLOW a. DESCRIPTION LIST CODES FROM (list) (include units) TABLE 2C-1 001 Metal cleaning wastes (internal Con't. monitoring outfall 005) which 0.005 MGD includes: (a) Copper treatment pond discharge (0.002 MGD) (i) Chemical metal cleaning {0.001 MGD} and air preheater wastes (ii) Precipitation {0.002 MGD} (iii) Less evaporation {-0.001 MGD} (b) Iron treatment pond discharge (i) Chemical metal cleaning and air preheater wastes (ii) Precipitation (0.011 MGD) (iii) Less evaporation (-0.008 MGD) (4) Nonchemical metal cleaning wastes 0.002 MGD (5) Ammonia storage runoff 0.002 MGD Bottom ash sluice water 6.814 MGD and groundwater (7) 25.178 MGD Fly ash sluice water Water treatment plant wastes via 0.267 MGD NLDF Sump, which include: (a) RO System Reject (0.239 MGD) (b) RO System Backwash (0.028 MGD) OFFICIAL USE ONLY (effluent guidelines sub-categories)

TVA-00025016

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TN8640006682

FORM			,	APPLICA	garra aran da arang bahasan ka		NMENTAL PRO IT TO DISCH			ER	
2C	EPA	EXIS	TING MAN	UFACTU	RING, CO	MMERC	IAL, MINING	AND SILV	/ICULTUR	RAL OPER	RATIONS
NPDES					, and a second		ted Permits Prog				
	LLLOCATION	I and the second									
A. OUTF	tfall, list the latitud ALL	B. LATITUDE			est 15 secon		name of the recei		/ING WATE	R (name)	
NUMBE	R									. , , , , , , , , , , , , , , , , , , ,	
(list)	1.DEG	2. MIN	3. SEC.	1. DEG.	2. MIN.	3. SEC.					
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II. ELOWS	, SOURCES, OF	POLITICAL	AND TOGATI	CNT:TECL	NOTOCIES		_				
Attacl	i a line drawing st	nowing the water	er flow through	the facility,	Indicate sou	rces of inta	ke water, operatio	ns contributin	g wastewater	to the	
efflue	nt, and treatment	units labeled to	correspond to	the more d	etailed descr	ptions in Ite	m B.: Construct	a water balanc	e on the line	drawing by	
snowi minin	ng average flows g activities) , provi	petween intake de a pictorial de	es, operations, i escription of the	reatment ur e nafure and	nits, and out Lamount of	alis, it a wa inv snitrces	ter balance cann of water and any	ot be determin collection or to	ed (<i>e.g., for c</i> reatment mes	tertain Isures	
	ach outfall, provide										e percentant de la companya de la co
waste	water cooling wa water. Continue o	ter, and storm v	water runoff; (2) The avera	ge flow contr	ibuted by ea	ich operation; an	d (3) The treat	ment receive	d by the	A 844
1. OUT-	water, Continue t								reatmen	Т	
FALL NO		2: OPERATION(S) CONTRIBUTING a. OPERATION (list)				GE FLOW	a. C	ESCRIPTION		b. LIST C	ODES FROM
(list)	(0)				(include					TABI	LE 2C-1
001		sump discha	arge which		7.712	MGD				<u> </u>	ļ
cont.	includes				(0.004	1100		·			<u> </u>
		system leak	and boiler		(3.921	MGD)					ļ
	bottom c				/2.60.4	1100)					
		5-9 ID fan b	earing		(0.234	MGD)					<u> </u>
	cooling v			17	/0.400	1100					ļI
			quipment co	oling	(3.438	MGD)					
		cating wate			(0.0000	(
	- · · · · · · · · · · · · · · · · · · ·	protection fl			(0.00003			 			
		washing wa			(0.025			·····			<u> </u>
ŀ			RC precipita	ator	(0.018	MGD)					<u></u>
		vn (including	g Control								
}	Room A				(0.005	NOD)					<u> </u>
}	· ·		ss wastewat ons (Power		(0.005	····	·				
}	and lab)	ample stati	ons (Power	nouse	(0.010	MGD)					
	(i) Leaka				/n ne1	MCD	<u> </u>				
}			blowdown ta	nnk	(0.061 0 (Startu						
ŀ	U) Daseil	nent nonel t	DIOWGOWN L	211K	v (Startu	p Only)					\vdash
}				· ··· · · · · · · · · · · · · · · · ·							
	(10) Precipita	ation			0.574	MGD					
)-	(10) Frecipita (11) Less Ev				-0.238						
-	(11) Less Ev (12) Less see		dwater wetl	end	-0.238						
) -	(12) Less see (13) AAF pre			artu	0.012						
	SE ONLY (effluer			0.100.400.6898	U.U.Z	IVIGU					
					coat source and the trible						

TN8640006682 Approval expires 5/31/92 Please print or type in the unshaded areas only U. S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER FORM **EPA** 2C EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS Consolidated Permits Program NPDES I. OUTFALL LOCATION For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. D., RECEIVING WATER (name) B. LATITUDE C. LONGITUDE A. OUTFALL NUMBER 2. MIN. 3. SEC. (list) 2. MIN 3. SEC. 1. DEG. 1. DEG. II. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. For each outfall, provide a description of: (1), All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary. 2. OPERATION(S) CONTRIBUTING FLOW 3. TREATMENT 1. OUTb. LIST CODES FROM b. AVERAGE FLOW a. DESCRIPTION **FALL NO** a. OPERATION (list) TABLE 2C-1 (list) (include units) 1,296.912 MGD Discharge to surface water 002 Condenser cooling water discharge channel. DSN 002 receives flow from the following sources: Ü South underflow ponds retain 0.010 MGD (1) Runoff from the transformer yard solids (south) and the switchyard (South) via underflow ponds (a) Fire protection flush (0.00008 MGD) (b) Fire protection leakage (0.00092 MGD) (0.009 MGD) (c) Precipitation 0.014 MGD (2)Boiler blowdown Once-through condenser cooling 1,296.627 MGD water (raw river water) 0.243 MGD (4)Intake screen backwash

0.018 MGD

(0.000019 MGD)

(0.018 MGD)

(5) Precipitator area runoff

(b) Precipitation

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(a) Fire protection flush

Flows are:

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OUTE	1 10	CATION		Shirts of the same	Brekern and	ALLEN DATE		ated Permits Program		
		st the latitude	and longitu	ide of its loc	cation to the r	nearest 15 s	econds and	the name of the receiving water.		
OUT		В.	LATITUDE			 Interest of the second of the s		D. RECEIVING WATE	R (name)	
NUMB (list)	1 10 10 10	1. DEG.	2. MIN	44 5 2 5 5 5 5 5 C	1. DEG.	2. MIN.				
							-	1,10		0.10.01.020
						 				
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										,
FLOW	s, sou	RCES, OF P	OLLUTION.	, AND TRE	ATMENT TEC	CHNOLOGI	ES CONT	Barrier Britania Company		48.77.48.35L
								intake water, operations contributing was in Item B. Construct a water balance on		
show	ing ave	rage flows be	etween intak	ces, operation	ons, treatmer	it units, and	outfalls. If	a water balance cannot be determined (e	g., for certain	
minir For e	ig activi	ities), provide	a pictorial	description	of the nature	and amoun	t of any sou	rces of water and any collection or treatm	ent measures	
								o the effluent, including process wastewar by each operation; and (3) The treatment		е
wast	ewater.	Continue on	additional	sheets if ne	cessary.		rakar religir. T			
LL NO		2.	OPERATION	ON(S) CON	TRIBUTING F	b. AVERA			IT │b. LIST CO	DES ERO
(list)		a.	OFFICATIO				units)		TABL	E 2C-1
005	Meta	l cleaning v	vastewate	er from iro	on and	0.005	MGD	Chemical metal cleaning		
	copp	er treatmer	nt ponds.	Wastewa	iter			and non-chemical (water only)		
	treate	ed by batch	and disc	harged to)			metal cleaning wastes are		
	surfa	ce water vi	a ash por	nd DSN 0	01			treated in 2.4 and 22 acre-feet		
								ponds. Treatment includes:		
								pH adjustment	X	X
						1				_
								2. Aeration	1	
								Chemical Precipitation	2	С
								Chemical Precipitation Settling	2	C
								Chemical Precipitation Settling Neutralization in ash pond	1 2	C U K
								3. Chemical Precipitation 4. Settling 5. Neutralization in ash pond 6. Discharge via DSN 001	2	C
								3. Chemical Precipitation 4. Settling 5. Neutralization in ash pond 6. Discharge via DSN 001 (See part II.C for additional	1 2	C U K
								3. Chemical Precipitation 4. Settling 5. Neutralization in ash pond 6. Discharge via DSN 001	1 2	C U K
								3. Chemical Precipitation 4. Settling 5. Neutralization in ash pond 6. Discharge via DSN 001 (See part II.C for additional	1 2	C U K
								3. Chemical Precipitation 4. Settling 5. Neutralization in ash pond 6. Discharge via DSN 001 (See part II.C for additional	1 2	C U K
								3. Chemical Precipitation 4. Settling 5. Neutralization in ash pond 6. Discharge via DSN 001 (See part II.C for additional	1 2	C U K
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FORM					APPLICA			DIMENTAL PROTECTION AGEN	
2C		EPA	EXIS	TING MAI		RING, CO	OMMERO	CIAL, MINING AND SILVIC	는 그 사람들은 이번 가고 있는 가장 하셨다.
NPDES I. OUTFA	: 1-:: 	CATION	Transport of the property	out Committee	ako da I da Kani Intern			ated Permits Program	
For each or	utfall, l	ist the latitude	and longitu	ide of its loc	ation to the r	earest 15 se	econds and	the name of the receiving water.	
A. OUTF NUMBE	ALL ER	В.	LATITUDE		C.	LONGITUD		D. RECEIVIN	G WATER (name)
(list)	<u>) 4.35%</u>	1. DEG.	2. MIN	3. SEC.	1. DEG.	2. MIN.	3. SEC.		
	_			_					
II. FLOWS	 3, sou	RCES, OF P	OLLUTION.	AND TREA	TMENT TEC	HNOLOGIE	S . 6.6(4)		
efflue show <i>minin</i> B. For e waste	ent, and ing ave ig activ ach ou water,	if treatment un erage flows be eities), provide tfall, provide cooling wate	nits labeled etween intake a pictorial a description r, and storm	to correspondes, operation description of (1) All converse transfer runof	nd to the more ons, treatment of the nature operations co ff; (2): The av	e detailed de it units, and and amount ntributing wa erage flow c	escriptions outfalls. If of any sou astewater t	intake water, operations contributed in Item B. Construct a water balance cannot be determined of water and any collection of the effluent, including process water and (3). The tree by each operation; and (3). The tree	ance on the line drawing by nined (e.g., for certain or treatment measures vastewater, sanitary
1. OUT-	ewater.	Continue on 2.						3 TRI	ATMENT
FALL NO (list)		a.		ON (list)		b. AVERA (include		a DESCRIPTION	b. LIST GODES FROM
007		n Parking Andoned Ash				0.052	MGD	Discharge to surface water	r 4 A
	Abai	idoned Asi	i Pond An	ea Seepai	ge			at plant intake	
_						_			
									
				<u>-</u>					
						· · · · · ·			
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						"			
									
		NLY (effluent			es)				

Form Approved OMB No. 2040-0086

Please print or type in the unshaded areas only

TN8640006682

Approval expires 5/31/92

FORM					A				PROTECTION SCHARGE V			
2C	EP	Δ	=VIC	TING MA						and the second		ATIONG
NPDES		^	EXIO	IING WA	N	JRING, CC	The second second	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ING AND S	LVICULIO	KAL OFER	ALIONS
I. OUTFA	ALL LOCATION	ON 🖁	14) - ROLA	ES BROKES	MA ALCHAR	新香港新聞	Market Service		TO SEE SEE SEE		SIMBU	
For each o	utfall, list the	latitude a	and longitu	ude of its loc	ation to the r	nearest 15 se LONGITUD	econds and	the name of	of the receiving D. REC	water.	and the officers	TOTAL STATE
NUMB	ER	B. (_A111006						D. KLY	EIVING WALE	K (name).	
(list)	1.1	DEG.	2. MIN	3. SEC.	1. DEG.	2. MIN.	3. SEC.					Eggin in His
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	_			 		+		-				
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				<u> </u>		1						
THE COME	2 COURCES	- CE DO	· · · · · · · · · · · · · · · · · · ·	AND THE		277701 0015	- A	and the sales of the first of the	- - National Constitution	and the second states of section	ल्डकरायेल प्रश्निकारमा १ ५५ दुस्य	ing different states and states and states
A. Attac	ch a line draw	ing show	ing the wa	iter flow thro	ough the facil	lity. Indicate	sources of	fintake wate	r, operations co	intributing wast	ewater to the	
efflue	ent, and treati	ment unit	s labeled t	to correspor	nd to the mor	re detailed de	escriptions	in Item B. (Construct a wat ince cannot be	er balance on t	he line drawin	g by
minin	ng activities),	provide a	a pictorial	description	of the nature	and amount	t of any sou	irces of wate	er and any colle	ction or treatm	ent measures.	
									t, including pro ration; and (3)			
	ewater. Cont	inue on a	additional s	sheets if nec	cessary.							
1. OUT-	2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	2. C	PERATIC	ON(S) CON	RIBUTING				DESCRIPT			DEC SHOW
(list)		a. v	PERATIC	ON (list)		b. AVERA	GE FLOW e units)		a. DESCRIPT	ON		DES FROM E 2C-1
800	Drainage	from Sl	uice Line	e Trench		0.016	MGD	Settling			1	U
	008 Rece			he				Discharg	e to surface	water	4	Α
	following:	sources	<u>;:</u>			 						
.=	(4) Dece	* - + ;				0.046						
	(1) Preci	pitation				0.016	MGD	 			 	
	(2) Interr	mittent (discharg			Ö	· · · · ·				 	
			sluice li			 			···			
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DEFICIAL U	USE ONLY (6	effluent g	uidəlinės s	sub-categori	es)	J. Compression						

CONTINUED F	ROWPAGET	
C. Except for	storm runoff leaks, or spills are any of th X YES (complete the following l	le discharges described in Items II-A or B intermittent or seasonal? NO (go to Section III)
1. OUTFALL. NUMBER (IISt). OO5	2: OPERATION(s) CONTRIBUTING FLOW (list) Possible contributing flows (a) Batch discharges of boiler cleaning chemicals; (b) raw river water used to wash air preheaters; and (c) Accumulated precipitation.	3. FREQUENCY 3. DAYS 4. FLOW 3. DAYS 5. MONTHS 7. Specify 3. Specify 4. Specify 3. Specify 3. Specify 3. Specify 3. Specify 4. Specify 3. Specify 3. Specify 4. Specify 3. Specify 4. Specify 3. Specify 4. Specify 3. Specify 3. Specify 4. Specify 3. Maximum 4. Specify 3. Dally 3. Maximum 4. Specify 3. Dally 3. Maximum 4. Specify 6. Dally 6. Dally 6. Dally 6. Dally 6. Dally 6. Dally 6. Dal
III. PRODUCTI A. Does an el		EPA under Section 304 of the Clean Water Act apply to your facility?
Briti Basi	X YES (complete Item III-B)	NO (go to Seation IV)
	YES (complete Item III-C)	expressed in terms of production (or other measure of operation)? X NO (go to Section IV)
C. If you answ	wered "yes" to Item III-B, list the quantity wused in the applicable effluent guideline, ar	hich, represents an actual measurement of your level of production, expressed in the terms nd indicate the affected outfalls
		RAGE DAILY PRODUCTION 2. AFFECTED OUTFAILS (Specify) (Ist outfail numbers)
IV. IMPROVEN A. Are vou no		authority to meet any implementation schedule for the construction, upgrading or operation
of wastew applicatio	vater treatment equipment or practices or a	ny other environmental programs which may affect the discharges described in this nit conditions, administrative or enforcement orders, enforcement compliance schedule
1. (IDE)	NTIFICATION OF CONDITION. AGREEMENT, ETC. a. NO	Z. AFFECTED OUTFALLS 3. BRIEF DESCRIPTION OF PROJECT PLIANCE DATE
may affect.	L: You may attach additional sheets described in the sheet sheet described in the sheet sheet described in the sheet sheet sheet described in the sheet sheet sheet described in the sheet	ibing any additional water pollution control programs (or other environmental projects which or which you plan. Indicate whether each program is now underway or planned, and stion. MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED.
		· · · · · · · · · · · · · · · · · · ·

Continue on Page 3

CONTINUED FROM PAGE 2	TN8640006682
V. INTAKE AND EFFLUENT CHARAC	ERISTICS FOR THE PROPERTY OF T
I DESERVE TO A CONTROL OF A STATE OF A SECURITION OF A SECURIT	ceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided. nd V-C are included on separate sheets numbered V-1 through V-9.
D. Use the space below to list any of the discharged or may be discharged from and report any analytical data in you	e pollutants listed in Table 2C-3 of the instructions, which you know or have reason to believe is in any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present possession.
POLLUTANT 10	2. SOURCE 1. POLLUTANT 2. SOURCE
None	
VII. BOTELENIN BIOGLASSICO	VERED BY ANALYSIS
product or byproduct?	tance or a component of a substance which you currently use or manufacture as an intermediate of final (FS (list all such pollutants below)
•	
	•

EPAI.D. NUMBER (copy from Item 1 of Form 1)

Continue on Page 4

CONTINUED FROM PAGE 3					
VIII BIOLOGICAL TOXICITY TESTING D					
	eliève that any biological test for acute or chr	onic toxicity ha	is been made o	n any of your discharge	sor
on a receiving water in relation to your disc	harge within the last 3 years?				
					4- 641/00
X YES (identify	the test(s) and describe their purposes belo	W)		NO (go	to Section VIII)
The current permit requires annua	al chronic toxicity testing at Outfal	002.			
•	ne State as required by the permit				
	,5 C.a.				
i .					
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	•				
	·			•	
VIII. CONTRACT ANALYSIS INFORMATION	ON .			_	
	v performed by a contract laboratory or cons	ültina firm?			
and the contraction of the contr	ame, address, and telephone number of, ar	98101499189454444444444444444444444		NO /ga	to Section (X)
		io politicants		INO (go	(O SECILONIX)
	by, each such laboratory or firm below)			la de la companya de	
A. NAME	B. ADDRESS		EPHONE de & no.)	D. POLLUTA	NTS ANALYZED (list)
		(area co	ue a neo	######################################	(# 3 0
Tank Amarica I.a.	DOGO Francosiahira Da	(04E) 7	00.0477	Tetal Cuanida	and Total Dhanal
Test America, Inc.	2960 Foster Creighton Dr.	(619) /	26-0177	Total Cyanide	and Total Phenol
	Nashville, TN. 37204-0566				
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IX. CERTIFICATION					
	ment and all attachments were prepared un	der mv directio	n or supervisio	n in accordance with a	system
	l properly gather and evaluate the informatio				
	directly responsible for gathering the inform				
$\Gamma \sim 1008$ GeV that $\Gamma \sim 1000$, we can always a final consistence with the constitution of the $\Gamma \sim 1000$ GeV and $\Gamma \sim 1000$ GeV.	complete. I am aware that there are signific				g the
possibility of fine and imprisonment for kno					
A. NAME & OFFICIAL TITLE (type or pr	înt)		B. PHONE	NO. (area code & no.)	
Masoud Bajestani, Senio	or Vice President, Fossil Operation	ne	1	(423) 751-30	13
i wasoud bajestani, Senid	or vice Fresident, rossii Operation	13		(423) 731 00	
C. SIGNATURE	1 :	-10-	D. DATE SI	GNED	
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EPA Form 3510-2C (8-90).

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all this information on separate sheats (use the same format) instead of completing these pages ere increased or completing these pages energy increases.	PE IN THE UNS	HADED AREAS ONL the same format) Ins	Y. You may reposted of completing	ort some or all of ng these pages,		EPALB. NUMBER (copy from flom 1). TN8640006682	py from Hemilia. V864000668	(Form 1)					
OCE INSTRUCTIONS. V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3:0/ Form 2:0).	JENT CHARACT	ERISTICS (CONTINUE	d from page 3 or i	Form 2-0)								OUTFALL NO 001	1 NO.
PARTA - You must pro-	vide the results o	of at least one analysic	s for every polluta	antin this table. Com	plete one table for	Complete one table for each outfall. See instructions for additional details.	ructions for addite	onal details.			TOTAL PROPERTY.		
1 POLLUTANT SAMAXIMUM DALLY VALUE DE MAXIMUM 30 DAY VALUE	a: MAXIMI	JM DAILY VALUE	D.MAXIMI	Z, EFFEUENI UM 30 DAY VALUE	C LONG T	C. LONG TERM AVRG. VALUE			(specify if blank)		4, IN ANA JOUGHAY		
	(1) CONCENTRATION	(2) WASS	(1) CONCENTRA	(if available) (2) MASS	(II ava	(If available): (2) MASS TION	d. NO. OF ANALYSES	a, CONCEN	D MASS	CONC	(1) (2) MASS CONDENT RATION	1.	b. NO. OF ANALYSES
a. Blochemical Oxygen Demand (800)			Ē				-	mg/L	:		£		-
b. Chemical Oxygen Demand (COD)	48						-	mg/L			27		
c. Total Organic Carbon (70C):	2.6						-	mg/L		8	3.2		-
d. Total Suspended	24				13.5		13	mg/L			8		-
e. Ammonia (as N)	< 0.02						-	mg/L	·	Ö.	0.05		γ
Flow	VALUE	42.2	VALUE		VALUE	24.7	53		MGD	VALUE			
g. Temperature. (føinter)	VALUE		VALUE		VALUE				ပ္	VALUE			
h. Temperature (summer)	VALUE	27.3	VALÜE		VALUE		-		ပံ	VALUE	26.5		—
	MINIMUM 6.6	MAXIMUM 8.6	MINIMUM	MAXIMUM			73	STAND	STANDARD UNITS				
PART B Mar elth pro	rk "X" in column ler directly, or ind vide quantitative	2-a for each pollutant lirectly but expressly, data or an explanatio	you know or have in an effluent limit n of their presenc	e reason to believe is tations guideline, you te in your discharge.	s present. Mark "X i must provide the Complete one tab	Mark IX in column 2 a for each polutant you know or have reason to believe is present. Mark IX in column 2 b for each polutant you believe to be absent. If you mark column 2 a for any pollutant polutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an expressly, in an effluent finitations guideline, you must provide the presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.	h politiant you b inalysis for that p is the instructions	elleve to be a ollutant. For for additional	bsent. If you mar other pollutants fo details and requit	rk column 2: or which you rements.	a for any pollutant wh rmark column 2a, yo	ich is Imited u must	
ROLLUT:	2: MARK X a. BE b. BE	a. MAXIMUM DAILY VALUE	ILY VALUE	5, MAXIMUM 30, DAY, VALUE	EFFLUENT DAY VALUE	6. LONG TERM AVRG: VALUE	/RG. VALUE	- 50 CN-F	OONCEN HAN	TS b.MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE	50 E. E.	h NO OF
a inga angga	PRE- AB- SENT SENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONDENTRATION	(2) MASS	ANAL T	тватом	Na izi	CONCENTRATION	MASS	ANAL. YSES
a_Bromide (24959-67-9)		<2						1	mg/L		< 2		-
b, Chlorine, Total Residual		> 0.05						-	mg/L		< 0.05		2
c. Color		V						4 -	PC Units		5		←
d Fecal	×												
e. Fluoride (16984-48-8)		0:30						-	mg/L		0.15		
f. Nilrate- Niirite (as M)		< 0.03						-	mg/L		0.20		ţ

	11	ANAL- YSES	٦	~	_	200000000000000000000000000000000000000					-	-	-	-	_	-	-	4	-	_	τ-	-	-	-
TAKE Kontional	FRM	AVERAGE VALUE (1) (2) MASS JOENTRATION																					1	
No. 200	USNO DE	AVERAGE VA (1) CONCENTRATION	0.28	< 5	0.04						24	< 0.02	0.64	< 0.1	0.28	0.043	< 0.2	< 0.001	0.21	9.9	< 0.02	0.082	< 0.05	0,0075
4. UNITS		SS/W/G																						
- -		A, CONCENTRATION	mg/L	mg/L	mg/L						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		d. NO. OF ANAL: YSES	-	13	_		-					-	-	-	-	v -	τ-	Τ-	7	-	-	<u></u>	F	τ-
	G. VALUE	(2) MASS																						
	C. LONG TERM AVR	(fravallable) (1) (2) MAS		< 55 × 55		300000000000000000000000000000000000000								•								-		,
ELBENT	YWALUE	iej (2) MASS																						
E 3	D. MAKIMUM 30 DA	(1) (2) MASS (2) MASS (2) (3) (4) (5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7								·														,
	VALUE	(2) MASS										-				,								
- 1	a. MAXIMUM DAILY VALUE	CONCENTRATION	0.26	< 5	0.21						63	< 0.02	0.64	< 0.1	0.99	0,45	0.3	< 0.001	0.28	11	0.086	0.034	< 0.05	0.037
KUM PAGE	p.BE-	LIEVED LIEVED PRE. AB- SENT SENT					×	×	×	×														
INUED H	a 8E	LIEVED PRE- SENT	×	×	×				20.00.00		×	×	×	×	×	×	×	×	×	×	×	×	×	×
I I EM V-B CONTINUED PROM PAGE V-1	1 POLLUT	ANT AND CAS NO. (If available)	g. Nitrogen, Total Organio (as N)	h. Oll and Grease	I. Phosphorus (as.P), Total (7723.14.0)	Radioactivity	(1) Alpha, Tofal	(2) Beta, Total	(3):Radium Total	(4) Radium 226, Total	k. Sulfate (<i>as</i> :SO _#) (14808-79-8)	Sulfide (as S)	m Sutitie (as 50 ₄) (14265-45-3)	n. Surfactants	o, Aluminum, T <i>0)a</i> l (7429-90-5)	p Barlum, Total (7440-39-3)	d. Boron, Total (7440-42-8)	r, Cobalt, Total (7440-48-4)	s, Iron, Total (7439:89-6)	f. Magnesium, Total (7439-95-4):	u. Malybdenum, Total (7439-98-7)	v. Manganese, Total (7439-96-5)	w. Tin. Total (7440-31-5)	x. Tilanium. Total (7440-32-6)

PART C II you such	i are a prim GC/MS fra equired GC	ary Industry ctions that a IMS fraction ant, you mu	and this apply to ms), ma	If you are a primary Industry and this outfall contains processor GCMS facilions that apply to your Industry and for All nonrequired GCMS fractions). "mark: "X" in column 2-P for	ss wastewa LL toxic me r each poliu	If you are a primary industry and this outsaff some sevastewater, refer to Table 2c.2 in the Instructions to determine which of the GCMS fractions you must test for. Mark "X" in column 2-a for all some sevastewater outsaffs, and not are not required to mark column 2-a (secondary industries, rionginosess wastewater outsaffs, and not required GCMS fractions), mark "X in column 2-b for each polition, you know or have feason to believe is present. Wark "X" in column 2-c for ago, polition, you believe is absent. If you mark column 2-b for ago, polition, you that pollutant you their politions of the sexual site and sevaste sevaste sevaste outsaffs. Wark "X" in column 2-c for ago, polition you believe is absent. If you mark column 2-c for ago, polition you believe is absent. If you mark column 2-c for any polition is a feast one analysis for that pollutant if you may polition.	-2 in the instraction of the controls of the control of the contro	If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GCMS fractions you must test for. Mark "X" in column 2-a for all such GCMS fractions that applyto your industry and for ALL toxic metals, and total precisis. If you are not required to mark column 2-a foreign and read to the second and the read political you know or have reason to believe is present. Mark "X" in column 2-c for each political you believe is absent. If you mark column 2-c for each political you believe is absent. If you mark column 2-c for each political you have reason to believe is present. Wark "X" in column 2-c for each political you believe to that you mark column 2-c for each political you have for that column 2-c for each political you have for that column 2-c for each political you have for that column 2-c for each political you have for that column 2-c for each political you have for that column 2-c for each political you have for that column 2-c for each political you have for that column 2-c for each political you mark column 2-c for each political your each one analysis for that political.	which of the GC I to mark coun rk "X" in colum stant, you mus	/MS frautic In 2-a (sec n 2-c for er proyide In 2-d digitrop	ondary industrial pollutants of a results of a herol. 2r. 2r.	test for. Mar free, frontro ou believe is t least one il	cess wastewate absent. If you talysis for that paticiphenel, you talysis for that paticiphenel, you or pollutants for	2-a for all and mark column mark column	
		am, you mu			がない を続いる!	is for that pollutant	If you mark o	collimn 25 for any poll.	tant, you must	provide In 2.4 dinitrop	e results of al henol, or 2-m	Lleast one ar ethyl 4, 6 dir	alysis for that p litrophenol, you or pollutants for	ollutant if you	
ooling Woow	r any politit r or have re ssults of at I nn 2b, you r	ason to bell least one ar nust either ble (eff 7 pe	leve it wind a leve it will be submit a	As for any pollutain, you thick provide the results of at least one arrays is or that pollutant, by durant, you must provide the results on a realysis for that pollutant if you mark column 25 for according a confidence of the case of	it one analy centrations ints which y briefly deso	Aprient atteits on the drawn of greater it you mark of the following the properties which you know ochavie reason to believe it is on briefly desorbe the reasons the political is expensively for the pressons the political is expensively for additional deals is and consider the properties of present the political deals of the present the political deals of the present the properties of the present the properties of the present the pres	If you mark son to believe pollutant is ex	column 2b for acrolein e that you discharge in xpected to be discharge	n, acrytoniitile, concentration jed. Note that	s of 100 pp there are	b or greater f pages to thi	S part, please	s review each co	must provide which you ma arefully.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
1. POLLUTANT	2.	2. MARK 'X'				administration de la la companie de	SNT				4. UNITS	lirs	5. INT	5. INTAKE (optional)	
AND CAS NUMBER	a. TEST.	b, BE C.BE	10 E	a. MAXIMUM DA	LYVALUE	D: MAXIMUM 30 DAY VALUE	'Y-YALUE'	c LONG TERM AVRG, VALUE	56.50				a LONG TERM		b. NO. OF
	RE- OUIRED	PRE AB.	4 k 1 m m	(0) CONCENTRATION	(2) MASS	(1) (1) CONCENTION	(Z) MASS	Z	(2) MASS	ANAL C	TRATION	D. MASS	(1) CONCEN (2) M	ASS.	YSES
METALS, CYANIDE, AND TOTAL PHENOLS	, AND TOT	AL PHENC	1 1	1 . 27	100	Section and a second		MOLL WILLIAM		255	1000 C		KATON		
1M. Aniimony, Total (7440:36-0)	×			0.0073		,	·			-	mg/L		< 0.001		
2M. Arsenic, Total (7440-38-2)	×			60:0						-	mg/L		< 0,001		-
3M. Beryllum, Total, (7440-41°7)	×	_		< 0.001						-	mg/L		< 0.001		-
4M. Cadmium, Total (7440-43-9)	×-			< 0.0001						-	mg/L		< 0.0001		-
5M. Chromium, Total (7440-47.3)	×			0.007						,	mg/L		< 0.001		-
6M. Copper, Total (7440-50-8)	×			< 0.001						-	mg/L		< 0.001		<u></u>
7M. Lead, Total (7439-92-1)	×		-	< 0.002						-	mg/L		< 0.001		-
8M. Mercury, Total (7439-97-6)	×			< 0.0001						-	mg/L		< 0.0001		-
9M, Nickel, Total (7440-02-0)	×			0.002	Ī					-	mg/L		0.009		-
10M. Selenium. Total (7782-49-2)	×		-	0.024						-	mg/L		< 0.001		-
11M, Silver, Total (7440-22-4)	×			0.0001						-	mg/L		< 0.0001		
12M. Thallium Total (7440:28-0)	×			< 0.002	-			-		-	mg/L		< 0.002		-
13M. Zinc, Total (7440,66.6)	×			0.014					 	-	mg/L		0.012		
14M. Cyanide. Total (57-12-5)	×			< 0.005	 					ν-	mg/L		< 0.005		7"
15M. Phenols, Total	×		-	< 0.005						<u></u>	mg/L		< 0.005		-
DIOXIN				1 1		· 一年 日本						9 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
chlorodibenzo-P Dloxin (1764-01-6)			×	DESCRIBE RESULTS											

AND CAS a. TEST. NUMBER	2: MARK 'X' b BE- c BE- I EVED I IEVED	S. MAXIMUM DAILY VAI	3. EFFLUENT UE b MAXIMUM 30 DAY VALUE		C. LONG TERM AVRG. VALUE	- 22		IIIS	5. INTAKE (optional	81.5	NO OF
RE- OUIRED VOLATILI	PRE- AB- SENT SENT COMPOUNDS	(1) (2) CONCENTRATION	(1) CONCENTRATION	(2) MASS	(if available) (1) (2) CONCENTRATION	11. 11.	d NO OF B CONCEN- ANAL: TRATION YSES	b. MASS	(1) CONCEN- (2) MASS TRATION:	1 (1941)	ANAL. YSES
1V. Aarolein (107-02-8) X		< 0.001					1 mg/L		< 0.001		
2V. Acrylonlirite ((07-13-1)		< 0.001					1 mg/L		< 0.001		-
3V. Benzene (71-43-2) (71-43-2) X		< 0.001					1 mg/L		< 0.001		-
4V. Bis (Chloromethy)) Ether (542-88-1)	×										
5V, Bromoform (75-25-2)		< 0.001					1 mg/L		< 0.001		-
6V. Carbon S. Tetrachloride V. (56-23-5)		< 0.001				-	1 mg/L		< 0.001		-
7V. Chlorobenzene (108-90-7)		< 0.001					1 mg/L		< 0.001		-
8V, Chlorodi bromomethane (124-48-1)		< 0.001					1 mg/L		< 0.001		-
9V. Chloroethane. (75-00-3)		< 0.001					1 mg/L		< 0.001		-
10V.Z-Cntoto- ethylyinyl Ether (110-75-8)		< 0.001					1 mg/L		< 0.001		-
11V. Chlorotorm (67-66-3)		< 0.0005		_			1 mg/L		< 0.0005		-
12V Dichloro- bromomerifiane X (75:27-4)		< 0.001					1 mg/L		< 0.001		-
13V_Dichiloro- diffuoromethane X (75:71-8)		< 0.001					1 mg/L		< 0.001		
14v. (1-Utalloro- ethane (75-34-3)		< 0.001					1 mg/L		< 0.001		-
15V 1.2-Dichiloro- elhane (107-06-2)		< 0.001					1 mg/L		< 0.001		-
16V 1.1-Dichloro- etiniene (75-36-4)		< 0.001					1 mg/L		< 0.001		-
17V, 1, 2-Dickloro		< 0.001					1 mg/L		< 0.001		-
18V. 1,3-Dichloro propylene (542-75-6) X		< 0.001					1 mg/L		< 0.001		/ -
19V, Ethylbenzene (100-41-4)		< 0.001					1 mg/L		< 0.001		-
20V. Methyl Bromide (74-83.9) X		< 0.001					1 mg/L		< 0.001		-
21V. Methyl Chloride (74-87-3) X		< 0.001					1 mg/L		< 0.004		-

NYTHUED FROM PA	AGE V-4	(A)		,	. a	EPATO:NUMBER (copy non tlein trafform 1) TNB64006682	opy from their 3640006i	n taffam 1) 682	OUTFALENUMBER 001	NUMBER 001					
COLCUIAN	a. TEST: ING RE. OUIRED.	MARK A D BE C BE UEVED LEVE PRE AB.	15	DAILY ON	VALUE (2) MA.SS	3. EFFLUENT 5. MAXIMUM 30 pAY VALUE (f. evaluation) (1) (2) MAS	NT Y VALUE (2) MASS	C. LONG TERMANEG VALUE (II available) (1) (1) (2) MAS	(G. VALUE) (2) MASS	a NO. OF ANAL.	4. UN e, CONCEN- TRATION	b. MASS	5. INTAKE (opio a. Long Terri AVERAGE VALUE (1) CONCEN- (12 MASS	AKE (optional TERM YALUE (2) MASS) b NG OF ANAL- YSES
MS FRACTION - V	OLATILE	COMPOUNDS	Continued					PORCERITORION.		John			TRATION		
Chloride (75:09-2)	×		· ·	< 0.001			•			۲	mg/L		< 0.001		_
23V 1,1,2,2-Tetra- chloroethane [79-34-5]	×		< 0.	0.0005						-	mg/L		< 0.0005		-
24V. Tetrachloro- ethylene (127-18-4)	×		0 > .	0.0005						-	mg/L		< 0.0005		-
25V. Tolliene (108-88-3)	×) >	< 0.001						-	mg/L		< 0.001		-
26V, 1,2-Trans. Dichtoroethylene (156-60-5)	×		0 >	0.001						-	mg/L		< 0.001		-
27V, 1,1 1-1m chloroethane (71-55-6)	×) >	< 0.001			,			-	mg/L		< 0.001		~
8V 1,1,2-1n- hloroethane 79-00-5)	×		v 0	0.0002						- -	mg/L	-	< 0.0002		V.,
29V Trichloro- ethylene (79-01-6)	×		v 	< 0.001							mg/L		< 0.001		-
30V. Trichloro- fluoromethane (75-69-4)	×		o v	0.001		·		·		ν-	mg/L		< 0.001		-
31V. Vinyl Chloride (75:01-4)	×	-	. >	< 0.002		,				-	mg/L		< 0.002		-
2-Chlorophenel	NOO OIO	Pounds													
(95.57.8) X	×		° 0	0.005						1	mg/L		< 0.005		τ-
zz, z,v.promogo. phenol (120:83:2)	×		0 v	0.005						1	mg/L		< 0.005	_	-
9 T	×		0 v	0.005						4	mg/L		< 0.005		-
4A: 416-Dinitro-C Cresol (534-52-1)	×) v	< 0.024						-	mg/L		< 0.024	 	-
5A. 7,4-Unitro phenol (51-28-5)	×		v	0.042						~ -	mg/L		< 0.042		-
6A, 2-Nitrophenol (88-75-5)	×) v	< 0.005						*	mg/L		< 0.005		-
(100:02-7)	×		v	0.03						ļ	mg/L		< 0.03		
On Frantistonia Gresol (59-50-7)	×		ე >	< 0.024						-	mg/L		< 0.024		-
94. Pentachloro- phenol (87-86-5)	×		0 v	0,005				-		1	mg/L		< 0.005		-
((108-95-2)	×		v	< 0.005						1	mg/L		< 0.005		-
11A. z.4 5-Tricoloro- phenot (88-05-2)	×		o >	< 0.0027						1	mg/L		< 0.0027		_

AND CAS a TEST. D. NUMBER ING (If available)	A TEST DING	b. BE- c. BE- LIEVED LIEVED PRE AB-	D RAXWININ DAILY VAL	LY VALUE	D. MAXIMUM 30 DAY VALUE (If available) (1) (1)	AY VALUE e) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (2) MASS	3 60 B	d. No. OF	CONCEN.	D MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCEN. 1(2) MASS	l S	b NO OF ANAL- YSES
GC/MS FRACTION - I	BASE/NEU	TRAL COMP	GC/MS FRACTION : BASE/NEUTRAL COMPOUNDS STATEMENT 1B. Acenabithene.		CONCENTRATION		<u>. i </u>		YSES			TRATION	5 L	
(83-32-9)	×	-	< 0.001						-	mg/L		< 0.001		-
2B. Acenaphtylene (208-96-8)	×		< 0.001						-	mg/L		< 0.001		-
3B. Anthracene (120-12-7)	×		< 0.0007							mg/L		< 0.0007		-
4B. Benzidine (92-87-5)	×		< 0.00008					·	-	mg/L		< 0.00008		-
5B Benzo (a) Anthracene (56-55-3)	×		< 0.0003						-	mg/L		< 0.0003		-
ob. benzo (a) Pyrene (50-32-8)	×		< 0.0003						-	mg/L		< 0.0003		-
10. 3,4-0e1/20; fluoranthene (205-99-2)	×		< 0.0003						-	mg/L		< 0.0003		←
65. Benzo (gm). Perylene (191-24-2)	×		< 0.001	·					-	mg/L		< 0.001	· .	-
Fluoranthene	×		< 0.0003		·				-	mg/L		< 0.0003		-
10b, bis (2-0,000) ethoxy), Methane (111-91-1)	×		< 0.005							mg/L		< 0.005		-
118. Bis (2-Chloro-v ethyl) Ether (111-44-4)	×		< 0.001						-	mg/L		< 0.001		-
128. Biş <i>(2-Chloro-</i> sopropyl) Ether (102-60-1)	×		< 0.005						-	mg/L		< 0.005		-
13B. Bls (2:Effly) hexyl) Phihalate (117-81-7)	×		0.009						-	mg/L		0.007		-
145. 4-bromo. phenyl Phenyl Ether (101-55:3)	×		< 0.005							mg/L		< 0.005		-
Phihalate (85-66-7)	×		< 0.005						-	mg/L		< 0.005		-
naphthalene (91-58-7)	×		< 0.005						-	mg/L		< 0.005		-
phenyl Phenyl Ether (7005-72-3)	×		< 0.005						-	mg/L		< 0.005		-
(218-01-9)	×		< 0.001						-	mg/L		< 0.001		-
4nthrapene 53-70-3)	×		< 0.001		·				4-	mg/L		< 0.001		-
benzene (95-50-1)	×		< 0.002						·	mg/L		< 0.002		-
benzene (541-73-1)	×		< 0.002						7	1/5/41		000		

CONTINUED FROM PA	AGE V-6				EPATD, NUMBER (rooy from Hem's of Form 1) TN8640005682	oy from Nem 16400066		OUTFALL NUMBER 001	<u>ੁਆਰਵਵਾ</u> 001					
1 POLLUTANT AND CAS	2. MA a. TEST 6 B	RK 'X' E. G BE.	A MAXIMUM PAIFY	UFY VALUE	B MAXMIM 30 DAY VALUE	VALUE U	PLIONG TREM AVEC USING	208116		4. UNITS		5. INTAKE	8	
NUMBER ING LIEVEO LIEVEO (If available) RE PRE AB. (1)	ING LIE	AB CEVE	(1)	(2) MASS	(ff eveilable)	(2) MASS	(f)	ω	d. NO. OF ANAL.	E CONCENTRATION	b. MASS	AVERAGE VALUE (1) CONCEN- (2) MASS	MLUE NIMASS	NO OF ANAL YSES
GC/MS FRACTION - B	ASEMENTRA	L COMPOL	UNDS (continued)		CONCENTRATION		CONCENTRATION		50.00			RATION		
225, 1,4-Dichloro- benzene (109-46-7)	×		< 0.0044						_	mg/L		< 0.0044	•	τ-
23B.3.3*Dichlore. benzidine (91-94-1)	×		< 0.025						1	mg/L		< 0.025		- -
24B. Diethyl Phthalate (84-86-2)	×		< 0.0019							mg/L		< 0.0019		-
258 Dimethyl Phthalata (131-11-3)	×		< 0.0016						1	mg/L		< 0.0016		-
268. Di-N-Bûtyl Phthalate (84-74-2)	×		< 0.0025			·			1	mg/L		< 0.0025		'-
27B: 2:4-Dinitro toluene (121-14-2)	×		< 0.001						1	mg/L		< 0.001		,
288, 2,6:Dinitra toluene (606-20-2)	×		< 0.005						.	mg/L		< 0.005		-
298, DI-N-Optyl Phihalate (117-84-0)	×		< 0.01						+	mg/L		< 0.01		-
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)		×									·		•	
316, Fluoranthene (206-44-0)	×		< 0.001				·		-	mg/L		< 0.001		-
32B Fluorene (86.73-7)	×		< 0.0003						₩	mg/L		< 0.0003		-
33B : Hexachlorobanzene (118-74-1)	×		< 0.001						-	mg/L		< 0.001		-
34B, Hexa- chlorobuladiene (87-68-3)	×		< 0.005						-	mg/L		< 0.005		
35B Hexachloro- cyclopentadlene (77-47-4)	×	_	< 0.03						1	mg/L		< 0.03		-
36B Hexachloro- ethane (67-72-1)	×		< 0.0005						-	mg/L		< 0.0005	 -	-
37B, Indene (1, 2,3 cd) Pyrene (193-39-5)	×		< 0.001	-					-	mg/L		< 0.001		-
38B, Isophorone (78-59-1)	×		< 0.005				,		-	J/gш		< 0.005	-	-
39B. Naphilialane (91-20-3)	×		< 0.001						-	mg/L		< 0.001		-
40B. Nitrobenzene (98-95-3)	×		< 0.01						-	mg/L		< 0.01		
41B. N-Nitro- sodimethylamine (62.75-9)	×		< 0.001		-				1	mg/L		< 0.001		+-
42B, N-Nitrosodi Propylamine (621-64-7)	×		< 0.00008			-			+	mg/L		< 0.00008		-

ptionat) b NO OF E ANAL; AASS YSES		-	_	-		-	-	-	-	-	-	-	-	7-	-	-	-	-	-	-	\[\]
5. INTAKE (optional) 5. INTAKE (optional) 6. a LONG THE AVERGE VALUE (1) CONCEN. (2) MASS TRATION	< 0.005	0.0007	0.0003	< 0.005		0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	< 0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	< 0.00001	
TS DMASS (1) COI	°	0 >	0 v	0 >	18 1 18 18 18 18 18 18 18 18 18 18 18 18	> 0.0	< 0.0	> 0.0	> 0.0	< 0.0	< 0.0	> 0.0	> 0.0	> 0,0	> 0.0	> 0.0	> 0.0	< 0.0	> 0.0	< 0.0	
4. UNI a. CONCEN- TRATION	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	+
d'No. OF ANAL YSES	-	-	_		10000	ν-	\-		-	~	-	-	-	-	-	-	-	-	-	-	
G. VALUE	ė ė					1						_		<u> </u>							
G, LONG TERM AVIRG, VALUE ((f. available). (1) (2) MS CONGENTRATION										,											
					20																†
3, EFFLUENT. 6. MAXMUM 30 DAY VALUE (It available) (2) MASS CONCENTRATION					San San Control of the Control																
ALUE					S. S. S. S. S.										· ·						
4 DAIL)	< 0.005	< 0.0007	< 0.0003	< 0.005	Market Bullet	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	
A. BE. A.B. A.B. SENT. OMPOUND						×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
L V-1. MARK TEST. D. BE- G . LIEVED F PRE- JIRED SENT	×	×	×	×	STICIDES	· · · · · · · · · · · · · · · · · · ·						<u>-</u>									_
CON INDEA FROM PAGE V. 2. MARK YI. AND CAS. A TEST. ID BE: ID BE	43B, N-Nitro; sodlphenylamine (86-30-6)	44B. Phenalithrene (85-01-8)	45B. Pyreine (129-00-0)	46B 1,2,4 - Tri? chlorobenzene (120-82-1)	GC/MS FRACTION - PES	(309-00-2)	2P. g-BHC (319-84-6)	3P. 0 -BHC (319-85-7)	4P. /~ BHC (58-89-9)	5P, p. BHC (319-86-8)	6P. Chlordana (57-74-9)	7P. 4,4'-DDT (60-29-3)	8P. 4,4-DDE (72-55-9)	9P. 4,4'-DDD (72-54-8)	10P. Dieldrin (60-57-1)	11₽; α-Endosulfan (115-29-7)	12P. ()-Endosulfan (1(5-29-7)	13P. Endosulfan Sulfate (1031-07-8)	(72-20-8)	15P, Endrin Aldehyda (7421-93-4)	18P Hentachlor

QUTFALL NUMBER COLORS	d. NO. OF	YSES	1 mg/L < 0.00001	1 mg/L < 0.00005	1 mg/L < 0.00005 1	1 mg/L < 0.00005 1	1 mg/L < 0.00005 1	1 mg/L < 0.00005 1	1 mg/L < 0.00005 1	1 mg/L < 0.00005 1	1 mail
A.D.NUMBER (copy.from them.) of Form (12) and Countrall, NUMBER (12) and TN8640006682	NT VÄLUE C.LONG TERM AVRG: VALUE (II available) (2) MASS	CONCENTRATION				4	-		\(\sigma\)		
EPA LO NUMBE	a, MAXIMUMIDAILY VALUE	CONCENTRATION	< 0.00001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0005
M PAG	1. POLLUTANT 2. MARK.X. AND CAS a. TEST. b. BE. C. BE. NUMBER ING LEVED LEVED (If available) RE. PRE. A.B.	ΙZ	17B. Heptiechtor Epoxige X (1024-57-3).	19P PCB-1242 (53469-21-9) X	19P.PCB-1264 ((1097-66-1)	20P, PGB-1221 (11104-28-2) (11104-28-2) X	21P_PCB-1222 (11.341-16-5)	222, 205,1248 (12672-29-6)	235° PCB-1260 ((1096-82-5)	248. PCB-1016.	25P: [oxaphene

PLEASE PRINT OR TO THE INITIAL SEPTIONS OF THE INSTRUCTIONS.	YPE IN THE UNSF arale sheets (use	HADED AREAS ONL the same format) ins	PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all or this information on separate sheets (use the same format) instead of completing these pages SEE INSTRUCTIONS.	e or all of s pages.	(d)	EPALO: NUMBER (copy from from 1, of Form 1). TN8640006682	Chom Nem 1 of 86400066E	Form 11.			
V ÎNTAKÊ AND EFFL	UENT CHARACT	ERISTICS (continue	V. INTAKE AND EFFLUENT CHARACTERISTICS (contribed from page 3 of Folm 2-G	O							OUTFALL NO. 002
PART A - You must pri	ovide the results of	fat least one analysis	PART A - You must provide the results of at least one a nativisis for every politizable in this table.	Is table. Comple	e one table for ea	Complete one table for each outfalt. See Instructions for additional detalls	ctions for addilli	onal detalls.	ITC SEC.		
1. POLLUTANT	a, MAXIMU	A. MAXIMUM DAILY VALUE	b. MAXIMUM 30 D	AY VALUE	C. LONG TER	G LONG TERM AVRG. VALUE	d. NOLOF	(specify if blank)	blank)	A. IN IANE (Optional) A. LONG TERM AVERAGE VALUE	b. NO. OF
	(1) CONCENTRATION	(2) MASS	CÓNCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	1 77.5	a, CONCEN-	b. MASS	CONCENTRATION (2) MASS	
a Biochemical (Xxygen Demand (BOD)	9							mg/L			
b, Chemical Oxygen Demand (COD)	4						-	mg/L			
c. Tolal Organio Carbon (70C)	3.9						-	mg/L			
d. Total Suspended. Söllds (TSS)	7.0						-	mg/L			
e, Ammonia (as N)	0.05		-				-	mg/L			
(Felow)	VALUE	1389	VALUE		VALUE 13	1316	365	MGD	Q	VALUE	
g. Temperature (winter)	VALUE	27.1	VALUE		VALUE 1	18.6	182	ე,		VALUE	
n. Temperature (summer)		34.7	VALUE		VALUE 2	28.8	183	ე,		VALUE	
	MINIMUM 7.0	MAXIMUM 8.2	MINIMUM	MAXIMUM			61	STANDARD UNITS	D UNITS		
PART B - Ma	ark "X" in column 2 her directly, or indir avide quantitative of	-a for each pollulant rectly but expressly, it tate of an explanation	you know of have reason in an effluent limitations of n of their presence in you	n to believe is pri tudelline, you mu ir dischange. Co	esent: Mark "X" in ust provide the resu implete one table for	column 2:b for each i ills of at least dire and or each outfall See il	pollutant you be alysis for that po he instructions t	illeve to be abser illutant. For other for additional dete	it. If you mark or you mark or w	1 2a for any 7ou mark.co	Page 1
1, POLLUT.	a. BE: br. BE: CIEVED CIEVED	a. MAXIMUM DAI	A. DESTRUCTOR A MAXIMUM DALLY VALUE D. MAXIMUM 30. ETCLUCEN C. LONG TERM AVRG. VALUE D. MAXIMUM DALLY VALUE D. MAXIMUM 30. ETCLUCEN C. LONG TERM AVRG. VALUE D. MAXIMUM 30. ETCLUCED DATA VALUE D. MAXIMUM 30. ETCLUCED DATA VALUE D. MAXIMUM 30. ETCLUCED DATA VALUE DA	MAXIMUM 30 DAY	YY VALUE	c, LONG TERM AVRG.	3. VALUE	4, L	4, UNII S	5, IN LAKE (optional) a LONG TERM AVERAGE VALUE	
O. blej	PRE. AB- SENT SENT C	CONCENTRATION	(2) MASS CONCE	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANAL TRATION YSES	NOI	8	
a. Bromide. (24959-67-9)	×	<2 <2			•	<u></u>		1 mg/L			
b, Chlorine Total Residual	×	< 0.05						2 mg/L	11.		
c: Color	×	5			-			1 PC Unit	Juit		
d, Febal Collform	×										
e, Fluoride (16984-48-8)	×	0.10						1 mg/L	/L		
It, Nitrate Nitrite (as N)	×	0.26	· :			!		1 mg/L	/L		

< CC							:::::::::::::::::::::::::::::::::::::::					
b. BE	a. MAXIMUM DAILY VALUE	YVALUE	DOE MOMIXAM IN	DAY VALUE	C.LONG TERM AVRG. VALUE	RG. VALUE		4	STIND	5, INT	5. INTAKE (optional)	30 ON q
PRE- AB-	(1) CONCENTRATION	(2) MASS	(1) (Taylaibe) (1) (2) MASS CONCENTRATION	(2) MASS	(if availab (1) CONCENTRATION	(2) MASS	4 NO OF ANAL XSES	a CONCENTRATION	b MASS	AVERAGE VALUE (1) (2) MASS	ALUE. (2) MASS	ANAL- YSES
							-	mg/L		CONCERNITA I I I I I I I I I I I I I I I I I I		
×	< 5						-	mg/L				
	0.04						1	mg/L				
						1.00 cm and 1.00 cm	18.08.000	200				And Street Control
×												
×												
×												
×												
	26						-	mg/L				
	< 0.02						-	mg/L				
	0.64						-	mg/L				
	< 0.1						-	mg/L				
	0.29						-	mg/L				
	0.055						-	mg/L				
	< 0.2						-	mg/L				
	< 0.001				,		-	mg/L				
	0.23						4-	mg/L				
,	11						-	mg/L				
	< 0.02						-	mg/L				
	0.066						_	mg/L				
	< 0.05						-	mg/L				
	0.0083											

PART C If you are a primary industry a	ire a primary indu	Islay and t	If you are a primary Industry and this outfall contains process	s wastews	Soess Wastewater; refer to: Table 2e(2) in the Instructions to defermine which of the GAMS fractions and the reservoir	In the instru	ctions to defermine w	hich of the G	C/MS fracti	one took milet	Sel for Ma	de la contraction	10 to	1. C.
No. 1, p	C/MS fractions the trived GC/MS fracting the triven GC/MS fracting to the triven the triven the triven the triven the triven triven triven the triven triv	hat apply I clions), rr must prov		L toxic me each pollu one analy	ALL toxic metats, chandres, and total phenois. If you are not required to mark columns are fleedingly float most populating and total phenois. If you are not required to mark columns as fleedingly impassing sequence outlants, and for each pollutain, you know or have reason to believe its present. Mark 32 in column 22 to for each pollutain; if you have column 25 bot any pollutain. If you mark column 25 bot any pollutain are required to mark column 25 bot any pollutain. If you mark column are storied the results of a least one area was required.	iphenois II eason lo be	(You are not required lieve is present. Mari	Io mark colu K ** In colum tant, vou mus	C(wlo ll aug mn 2-a (se m 2-c for e	ons you must condary indust ach pollutant your	est for Mar ries, nonpro bu believe is least one ar	cess wastew absent If y	nn 2-a lor all ater oùlfalls, su mark colur	and mu
Know or the rest cotumn Comble	if have reason to ults of at least on 2b, you must elif	believe it le analysis her submit 7 oaces) i	know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 25 for acrolein, acrylonitude, 2.4 dinitrophenol, or 2-mathy. 4.6 dinitrophenol, you must provide the results of at least one analysis for analysis of briefly describe the reason to believe that you discharged in concentrations of 100 ppb, or greater. Otherwise for polutarits for which you may column 2b, you must either submit at least one analysis of briefly describe the reasons the pollutarit is expected to be discharged. Note that there are 7 pages to this part, please review agen cancilly complete one table (at 7 pages) for each outfall. See instituctions for additional reliable and the concentrations of the pollutarity and a complete one table (at 7 pages) for each outfall. See instituctions for additional reliable and the concentrations of the pages and the pages to this part, please review agen cancilly complete one table (at 7 pages) for each outfall. See instituctions for additional reliable and the pages to the pages to the page and the pages to th	entrations Its which y riefly desc	concentrations of 10 ppb or greater. If you mark column 2b for accident, acytointrie, 2,4 clinitophenol, or 2-mehyy 4,6 clinitophenol, you must provide titlatils which you know or have reason to believe that you discharge in concentrations of 100 ppb, or greater. Otherwise for polutarits for which you man of briefly describe the reasons the pollutarit is expected to be discharged. Note that there are 7 pages to this part, please review each carefully marking and pages to this part, please review each carefully marking or additional details and removement.	you mark on to belleve	olumn 2b for acrolein Mat you discharge in sected to be discharg	, acrylontirile, concentration ed. Note tha	2,4 dinitrop is of 100 p t there are	henol, or 2-me b or greater 7 pages to this	uhyt-4, 6 din Otherwise fo part-please	ulrophenol yo or pollutants fi areview each	ou must provi or which you carefully	T es E
1. POLLUTANT	2. MARK 'X'	×			3. EFFLUENT	1				PINIT 7	1.00 E		NITANE COL	
AND CAS NUMBER	a, TEST. b. BE-	L BE. LIEVED	a. MAXIMUM DAII	Y VALUE	6 MAXIMUM 30 DAY VALUE	NALUE.	C. LONG TERM AVRG. VALUE	G VALUE	- C				a LONG TERM	0. NO. OF
(if available)	RE- PRE AB-	ay in	(1) CONCENTRATION	(2) MASS	: L	(2) MASS	(1)	(2) MASS	ANAL	TRATION	n S	Ξ.	AVERAGE VALUE	YSES
METALS, OYANIDE, AND TOTAL PHENOLS	ND TOTAL PHE	ENOLS.			CONCENTRATION		CONCENIFATION		YSES			TRATION		
1M. Antimony, Total (7440-36-0)	×		< 0.001						₹.	mg/L				
2M. Arsenic, Total (7440-38-2)	×		0.0024						-	mg/L				
3M. Beryllum, Total, (7440-41-7)	×		< 0.001							mg/L				
4M, Cadmíum, Folal (7440-43-9)	×		< 0.0001							mg/L				
5M. Chromium, Total (7440-47-3)	×		< 0.001						-	mg/L				-
6M. Copper, Total (7440-50-8)	×		0.004						-	mg/L				
7M. Lead, Total (7439-92-1)	×		< 0.001						-	mg/L				
8M. Mercury, Total (7439-97-6)	×		< 0.0001						-	mg/L				
9M. Nickel, Tolal (7440-02-0)	×		< 0.001	-					-	mg/L				
10M. Selenium, Total (7782-49-2)	×		0.0028			 			-	mg/L				
11M. Silver, Total (7440-22-4)	×		< 0.0001						-	mg/L				
12M. Thallum, Total (7440-28-0)	×		< 0.002						-	mg/L				
13M Zinc, Total (7440-68-6)	×		0.012						-	mg/L				
14M. Cyanide Total (57-12-5)	×		< 0.005						-	mg/L				
15M. Phenois, Total	×		< 0.005						-	mg/L				
DIOXIN	The State of States						九 人 人名西班牙						7 2 3 1 3 1 m	
2,3,7,8-Tetra- chlorodibenzo-P		×	DESCRIBE RESULTS							The state of the s				
ייינטיייטייין וואסורט														

EPATO NUMBER (COP) from Nem 1, or Form 10.

AND CAS	a:TEST- b.	b BE C B		A MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE	C. LONG TERM AVRG. VALUE			NO.4	2	5, IN	TAKE (option	nat) In:NO OF
100	RE PR	EVED LIE		CONCENTRATION (2)	92	(2) MAS	(ff available) (1)	(2) MASS	d NO OF	a CONCEN- TRATION	b. MASS	AVERAGE VALUE (1) CONCEN. (2) MASS	VALUE (2) MASS	ANAL
GC/MS FRACTION - V 1V. Acrolein	VOLATILE CC	MPOUNI							1203			N N N N N N N N N N N N N N N N N N N		
(10/-02-8)	×			< 0.001					4	mg/L				
2v, Acrytonlitije (107-13-1)	×			< 0,001	· .				_	mg/L				
3V. Benzene (7143-2)	×			< 0.001					-	mg/L				
4V. Bis <i>(Chloro-methyl)</i> Ether (54 <u>2</u> -88-1)			×								-			
5V. Bromoform (75-25-2)	×	· · ·		< 0.001					-	mg/L				
6V.,Carbon Tefrachloride (56-23-5)	×			< 0.001		-			-	mg/L				
7V. Chlorobenzene (108-90-7)	×			< 0.001					-	mg/L				
8V, Chlorodi- bromomethane (124-48-1)	×			< 0.001		-			-	mg/L				
9V, Chloroethafie (75-00-3)	×		;	< 0.001					~	mg/L				
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	×			< 0.001					-	mg/L				
11V, Chloroform (67-66-3)	×			< 0.0005					-	mg/L				
12V, Dichloro- bromomethane (75-27-4)	×			< 0.001		. ·			-	mg/L	-			
15v, Dictiloro diffuoromethane (75-71-8)	×		·	< 0.001					-	mg/L				
14V, 1, 1-Dichloro- ethane (75-34-3)	×			< 0.001					-	mg/L				
15V 1,2-Dichloro- elhane (107-06-2)	×			< 0.001					,	mg/L				
16V/ 1,1+Dichloro- ethylene (75-35-4)	×			< 0.001					·	mg/L				
17V, 1,2-Dichloro- propane (78-87-5)	×			< 0.001					-	mg/L				
18V, 1,3-Dichloro- propylene (542-75-6)	×	· v · ·		< 0.001					-	mg/L				
19V. Ethylbenzene 3** (100-41-4)	×			< 0.001					-	mg/L				
20V Methyl Bromide (74-83-9)	×			< 0.001					-	mg/L				
21V. Methyl Chloride (74-87-3)	×			< 0.001					-	mg/L				

JED FROM PJ	AGE V4		,			EPA I.B. NUMBER (coop for liter) 1 of Form 1) TN8640006682	000y from the 18640006	;	OUTFALLNUMBER	NUMBER 002					
1. POLLUTANT AND CAS A TEST	2. MARK 'X' a. TEST b BE c	1ARK 'X' BE: 6. BE		8 MAXIMUM DALIY VALUE	L'ab.	b. MAXIMUM 30 DAY VALUE	ENT VY VALUE	6 LONG TERM AVRG, VALUE	G VALUE		4. UNITS		5. INT	TAKE (option	101
pie)	ING CHEVED LIEVED RE. PRE. AB-	EVED IIE.		-	(2) MASS	(if available	(2) MASS	(ff avgitable) (1)	(2) MASS	d. NO. OF	a CONCENTIFICATION	b MASS	AVERAG	AVERAGE VALUE	ANAL
GC/MS FRACTION - V	OURED S	OMPOUND		Continued	12 15 15 15 15 15 15 15 15 15 15 15 15 15	CONCENTRATION	0.000	CONCENTRATION	A 222 C.25	_		2.0	TRATION		
ZZV. Melnylene Chloride (75-09-2)	×			< 0.001		-				- -	mg/L				
23V. 1,1:2,2-Telra- chloroethane (79-34-5)	×			< 0.0005						-	mg/L				
24V. Tetrachloro- ethytene (127-18-4)	×			> 0,0005							mg/L				
25V: Toluene (108-88-3)	×			< 0.001						-	mg/L				
26V. 1,2-Trans- Orchloroethylene (156-60-5)	×			< 0.001						-	mg/L				
27V-1,1-Ln- chloroethane (71:55:6)	×			< 0.001						-	mg/L				
28V, 1,1,2 Tri- chlgroethane (78:00:5)	×			< 0.0002						-	mg/L			,	
29V. Trichlöro- ethylene (79-01-6)	×			< 0.001						<u></u>	mg/L				
30V. Trichlaro- Nuoromethane (75-69-4)	×			< 0.001						-	mg/L				
31V. Vinyl Chloride (75-01-4)	×			< 0.002			-			-	mg/L				
C I I CN - A	GC/MS-FRACTION—ACID COMPOUNDS 18.2 Chlorophenol	SONO													
{	×		_	< 0.005						-	mg/L				
zz z.e.z.icalioso- phenol (120:83-2)	×			< 0.005						1	mg/L				
34, 2,4-Dimethyl- phenal (105-57-9)	×			< 0.005						-	mg/L				
4A, 4,6 Dinitro O. Cresol (534-52:1)	×			< 0.024						τ-	mg/L				
54, 2,4:Dinftra- phenol (51-28-5)	×			< 0.042						-	mg/L				
6A. 2:Nitrophenol (88-75-5)	×			< 0.005						-	mg/L				
7A. 4.Nitrophenol (100:02:7)	×			< 0.03						-	mg/L				
8A, H-Chloro-M Cresol (59-50-7)	×			< 0.024						τ-	mg/L				
9A. Penlachloro- phenol (87-86-5)	×			< 0.005						-	mg/L				
	×			< 0.005		-				1	mg/L				
114, 2,4,6: Irichloro phenol (88-06-2)	×		_	< 0.0027		, .				-	mg/L				

7.4						ĺ	A STOCK OF THE STO			0 100		TOPING TOPING	- Control
NUMBER	a. Test. ING	D. BE: 0. BE: LIEVED LIEVE	ED [A MAXIMUM DALLY VAL	VALUE	C B, MAXINUM 30 DA (Il available)	VALUE	C LONG TERM AVR	G VALUE	d No. OF	a CONCEN	b MASS	AVERAGE VALUE	b. NO. OF
(if available).	RE. QUIRED	PRE: AB. SENT SENT	(if available) RE PRE AB. CONCENTRATION:	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS ANAL	ANAL	TRATION		(1) CONCEN- (2) MASS	YSES
CIMS FRACTION	- BASE/NE	UTRAL COMP	SOUNDO	1. T									14.73
15. Acenaphinene (83:32-9)	×		< 0.001						τ-	mg/L		•	
2B, Acenaphtylene (208-96-8)	×		< 0.001							mg/L			
3B. Arithracene (120-12-7)	×		< 0.0007						-	mg/L			
4B. Benzidine (92-87-5)	×		< 0.00008						·	mg/L			·
5B. Benzoj(a) Anthracene (56-55-3)	×		< 0.0003						-	mg/L			
6B. Benzo (a) Pyrene (50-32-8)	×		< 0.0003						~	mg/L			
7B. 3,4-Benzo- fluoranthene (205-99-2)	×		< 0.0003						-	mg/L			
8B, Benzo (ghi) Perylene (191-24-2)	×		< 0.001						-	mg/L		,	
9B. Benzo (k) Fluoranthene (207-08-9)	×		< 0.0003						-	mg/L			
10B, Bis (2-Chlora- ethoxy), Methane (111-91-1).	×		< 0.005						-	mg/L			
11B. Bls (2-Chloro- ethyl) Ether (11:144-4)	×		< 0.001						-	T/6w			
12B. Bis (2-Chlora- sopropyl) Ether 102-60-1)	×		< 0.005							mg/L			
13B: Bis (2-Ethyl- hexyl) Phthalate (117-81-7)	×		0.003	·					-	mg/L			
IB, 4-Broino- ienyl Phenyl. her (101-65-3)	×		< 0.005						-	mg/L			
15B. Butyl Benzyl Phthalate (85-68-7)	×		< 0.005						-	mg/L			
16B. 2-Chloro- naplithalene (91-58-7)	×		< 0.005						-	mg/L			
17B. 4-Chloro phenyl Phenyl Ether (7005-72-3)	X		< 0.005						—	mg/L			
18B_Chrysene [218-01-9]	×		< 0.001							mg/L			
19B. Dibenzo (a.h) Anthracene: (53-70-3)	× :		< 0.001						-	mg/L			
20B, 1.2-Dichloro-) benzene (95-50-1)	×	'	< 0.002				·		-	mg/L			
21B. 1,3-Dichloro- benzene (541-73-1)	×		< 0.002						-	mg/L			

AND CAS a TEST b I NUMBER ING LIE ING I LIE IN	ARK X			3. EFFLUEN		TO THE SECOND SE	A # 12 Per 25 A	1	– INII 7		S INTAK	aKE (online)	
SE/NEUTR	BE. C. BE. (C.	AND CAS a TEST D. BE. C. BE. ANAWAYAN GALLY VALUE NUMBER ING. LIEVED, LIEVED (If available) RE. AB. CONCENT ON OURED: SENT. SENT.	58	b Maximum 30 Dayyacue (if evallable) (ii) (2) MAS	Y'VALUE	CLONG TERM AVRG. VALUE (II available) (II) (O) CONGENTRATION	g	d:NO. OF ANAL: YSES	a CONCEN-	b MASS	a LONG TERM CONG AVERAGE VALUE (1) CONCENT (2) MASS	TERM VALUE (2) MASS	b, NO. OF ANAL: YSES
×	IAL COMPOU	NDS (continued) >							ma/L		9, 83 83 80)		5.45.5
×		< 0.025						-	mg/L				
×		< 0.0019						-	mg/L				
×		< 0.0016						-	mg/L				
×		< 0.0025							mg/L				
×		< 0.001						-	mg/L	 			
×		< 0.005						-	mg/L				
×		< 0.01						-	mg/L				
!	×				<u> </u>								
×		< 0.001						-	mg/L				
×		< 0.0003						-	mg/L				
×		< 0.001							mg/L				
×		< 0.005	,					-	mg/L				
×		<0,03			-			-	mg/L				
×	-	< 0.0005						-	mg/L				
×		> 0.001			<u>-</u>				mg/L				
×		< 0.005							mg/L				
×		< 0.001			_			-	mg/L				
×		< 0.01						_	mg/L				
×		< 0.001							mg/L				
×		800000 >						_	mg/L				

AND CAS a.TEST	2. MARK X TEST D. BE G G LIEVED LU	BE- IEVED	JAILY VALUE	ula∵ o⊤	c, LONG/TERM AVRG, VALUE (if evenable)		a CONCEN	b. MASS AVERAGE VALUE.	5. NO. OF ANAL
(II available) KE OL OMS FRACTION - BAS	INED SENT S FINEUTRAL COM	KENT APOUND	N (Z) MASS	CONCENTRATION	CONCENTRATION.	(2) MASS ANAL.	TRATION	(1) CONCEN. (2) MASS. TRATION	0
43B. N-Nifro- sodiphenylamine (86-30-6)	×		< 0.005				mg/L		*
44B. Phenanthrene (85-01-8)	×		< 0.0007			 -	mg/L		ļ .
45B Pyrene (129-00-0)	×		< 0.0003			7-	mg/L		
46B. 1,2,4 - Tri- chloroberzene (120-82-1)	×		< 0.005			-	mg/L		
GC/MS FRACTION - PESTICIDES	TICIDES					Sales From			
(309-00-2)		×	< 0.00001				mg/L		
2P. a. BHC (319-84-6)		×	< 0.00001			-	mg/L		
3P. 0 -BHC (319-85-7)		×	< 0.00001			₹-	mg/L		
		×	< 0.00001			4	mg/L		
5P. 5- BHC (319-86-9)		×	< 0.00001			-	mg/L		
6P. Chlordane (57-74-9)		×	< 0.00001			_	mg/L		
7P 4,4-0DT (50-29-3)		×	< 0.00001			_	mg/L		
8P: 4,4'-DDE (72-55-9)		×	< 0.00001			-	mg/L		
9P. 4,4'DDD (72-54-8)		×	< 0.00001			-	mg/L		
10P, Dieldrin (60:57-1)		×	< 0.00001			-	mg/L		
11P. a-Endosulfan (115-29-7)		×	< 0.00001			-	mg/L		
12P_0-Endosuljan (115-29-7)		×	< 0.00001			-	mg/L		
13P. Endosulfan Sulfate (1031-07-8)		×	< 0.00001			~	mg/L		
72-20-8)		×	< 0.00001			<u> </u>	mg/L		
159, Endrin Algelryde (7421-93-4)		×	< 0.00001			_	mg/L		
16P Heptachlor (76-44-8)		×	< 0.00001			←	mg/L		

CONTINIED FROM PAGE V.8			<u></u>	EPALD NUMBER (copy from them 1 of Form 1) Section 1 of Form 100 of 100 o	36400066	i tof Form II.	OUTFALLIN	UMBER 002					
AND CAS a TEST IN NI IMBER	2. MARK X' b. BE: c. BE:	a. MAXIMUM DALY YAGUE	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	n q	NT AVALUE	L C.LONG TERM AVRG. VALUE	4. 3.2		4. UNITS	TS	5. INTAKE (c	polion	al) b. NO. OF
	RE PRE AB.	(1) CONCENTRATION	(2) MASS	(1) (2) MASS (CONCENTRATION (1)	(2) MASS	(I available) ((1) CONCENTRATION	(2) WASS	d. NO. OF ANAL- YSES	a. CONCEN-	VALUE b MASS (1	(1) CONCEN-	VALUE (2) MASS	ANAL. YSES
GC/MS FRACTION - PESTICIDI	- PESTICIDES (continued)		J. 140 m. 3	· · · · · · · · · · · · · · · · · · ·	11 1 1 1 1 1 1 1 1 1 1	というなることとなる 行物	2 (Table)	2 2	5		L COLLON		
17B, Heptachlor Epoxide (1024-57-3)	× ·	< 0.00001				-		-	mg/L			99 90 90 90 90 90 90 90	
16P, PCB,1242 (53469-21-9)	×	< 0.00005						-	mg/L				
19P, PCB-1254 (11007-69-1)	×	< 0.00005						-	mg/L				
20P, PCB-1221. (11104.28-2)	×	< 0.00005						-	mg/L	<u> </u>			
21P_PCB-1232 (111141-16-5)	×	< 0.00005						-	mg/L				
22P, PCB-1248. (12672-29-6)	×	< 0.00005						-	mg/L				
23P, PCB-1280 (11096-82-5)	×	< 0.00005						-	mg/L				
24P PCB-1016- (12674-11-2)	×	< 0.00005						_ —	mg/L				
25P. Toxaphene (8001-35-2)	×	< 0.0005						-	mg/L				

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-c.) PART A You'must provide the results of at least one analysis for every politiant in this table. Complete one table for each outsalt. 2. EFFLUENT 2. EFFLUENT									_			
PART A Yourmust pr	UENT CHAKA	CTERISTICS (continu	ied Irom page 3 of F	om 2:c.)							OUTFAIL NO. 005	LL NO. 105
TAMTILIDO E	ovide the result	's of at least one analys	ils for every pollutant	in this table. Cor	mplete one table (for each outfall. See	e Instructions for additional details	Iditional details				
	a MAXII	MUM DAILY VALUE	ь махімим	2. EFFLUENT 30 DAY VALUE	C. LONG TI	6. LONG TERM AVRG. VALUE		3, UNITS (specify if blank)	S	A LONG TE	optional)	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	In available (2) MASS (7) MASS (7) MASS	(1) CONCENTRA	(II. divariable) (2) MASS TION	ANALYSES	a CONCENTRATION	b, MASS	AVERAGE VALUE (1) CONCENTRATION	MASS	ANALYSES
a, Biochemical Oxygen Demand RODi												
b. Chemical Oxygen Demand (COD)	10 T W 1000											
c. Total Organic Carbon (<i>TOC</i>)												
d. Total Suspanded Solids (TSS)				,								
e. Ammonla (as W)												
r Flow	VALUE	3.2	VALUE		VALUE		-	MGD		VALUE		
g Terriberature (winter)	VALUE		VALUE		VALUE			ပ်		VALUE		
h. Temperature Summer)	VALUE		VALUE		VALUE			ပ္		VALUE		
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	$/ \setminus$			STANDARD UNITS	UNITS	$\left \frac{1}{2} \right $		
PARTB. Mar eth eth	rk "X" in columner directly, or invide quantitativi	n 2-a for each bollufan idirectly but expressly, e data or an explanatio	you know or have re in an effluent limitall n of their presence in	ason to believe fa ons goldeline, you i your discharge	s present Mark") u must provide the Complete one fat	X'in column 2-b for eresults of at least o ble for each outfall	each pollulant you ine amalysis for the See the instruction	i belleve to be abser it pollutant. For othe is for additional dele	nt. If you man er pollutants fo alls and requir	Mark "X" in column 2 a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you be served to be absent. If you mark column 2 a you must either directly or indirectly but expressly in an effuent limitations guideline, you must provide the results of a least one analysis for that pollutant. For other pollutants for which you mark column 2a you must provide quantitative data of an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.	llutant which is limi mn 2a, you must	pal
ANT AND LIEY CAS NO.	a 86. b 86. LIEVED LIEVED PRE. AB.	a. MAXIMUM DAI (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DA. (If available) (O) (CONCENTRATION	DAY VALUE bis)	c LONG TERM AVR (# available) (1)	VRG VALUE Able) (2) MASS	d NO OF a, CONCEN ANAL: TRATION	N B. MASS	S AVERAGE VALUE A LONG TERM AVERAGE VALUE (1)	TAKE (optional) IG TERM SE VALUE (2) MASS	b. NO. OF
a. Bromide (24959-67-9)	f									Work Company		2
b, Chlotine Total Residual		·										
c Color												
d. Fécal Caliform												
e, Fluoride (16984-48-8)												
f. Nitrate. Nitrite (as N)												

EPA Form 3510-2C (8-90)

Market M	1, POLLÜT.	2. MARK a. 8E 16.8E	×s	a. MAXIMUM DALLY VALUE	Y VALUE		FELUENT TAY WAT UF	WANG MADEL TONO	T Section		4, UNITS	TS	5. INTA	AKE (oplional)	
0.19 2 mg/l	ANT AND CAS NO.	LIEVED LIEV PRE- A SENT SE	6 4 Z	(1) CONCENTRATION	SS		ie) (2) MASS	della (1)	NO VALUE (2) MASS	d. NO. OF ANAL- Vere	a CONCENTRATION	b. MASS	a LONG TEI AVERAGE VA.	RM LUE (2) MASS	b, NO, OF ANAL- YSES
	g. Nitrogen, Fotal Organic (as.N)									9: 10: 10: 10:			SONCERITOR		
	h Oll and Grease						·								
0.19	Phosphorus (as P), Total (7723-14-0)												,		
0.19 mg/l	J. Radioactivity (1) Alpha, Total														54. 54.
0.19 2 mg/l	(2) Beta. Total														
0.19 2 mg/l	(3) Radium, Total			,								1			
0.19 2 mg/l	(4) Radium 226, Tolal	200000000000000000000000000000000000000													
	10 TA 488														
0.19	l Sollide (as S)	200-0000													
0.19	m Suffite (as SO4) (14265-45-3)														
0.19	n. Surfactents	o special													
0.19	o, Aluminum, Total (7429-90-5)														
0.19	p. Barlum, Total (7.440-39-3)														
0.19 mg/l	q. Boron, Total (7440-42-8)	2000000										-			
	r. Coball, Total (7440:48-4)						,								
	s. Iron Total (7439-89-6)			0.19		·				2	l/bm				
	t. Magnesium, Total (7439-95-4)	21.00													
	u, Моlувdепит Total (7439-98-7)	Dec. 107.00						-							
	v. Manganese, Total (7439-96-5)	0.40-1004-61													
	W. Tin, Total (7440-31-5)	1.500	<u></u>												
	X Titanium, Total (7440:32-6)		_												

PART C. If you are a primary industry and this outself contains prices such GCMNS freetions that apply to your industry and for A notificed in Complete of Complete of Sections of the complete of Complete of Sections of the complete of the	rie a primary industry and the POINIS fractions that apply to wired GCMS fractions), in any pollularit, you must provide the season to believe it it also you must alther submit sets one lable (alf fractor). 2. MARK 71. 3. MARK 71. 3. TEST 6. BE 6. BE 11. 11. TEST 6. BE 6. BE 11. 11. TEST 7. 11. TEST 7. 12. TEST 7. 13. TEST 6. BE 7. 14. TEST 7. 15. TEST 7. 16. TEST 7. 17. TEST 7. 18. TEST 8. If you'de's aprimary Industry and this outsilf contains probless wastewarter refer to Table 2c-2 in the instructions to determine which of the GCMAS fractions you must test for Mark "X" in optimin 2 a for a solution of ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2 a forecondary industries, noncocess wastewater outsilfs, and notified is GCMAS fractions. This column 2 bits each pollutant you know or have reason to believe it present. If you mark column 2 bits of each pollutant you mark column 2 bits any pollutant, you must provide the results of a test one analysis for that pollutant. If you mark column 2 bits any pollutant you must provide the results of at least one analysis for that pollutant. If you mark column 2 bits any pollutant you must provide the results of a least one analysis for that pollutant. If you mark column 2 bits any pollutant you must provide the results of at least one analysis for that pollutant. If you mark column 2 bits any pollutant you must provide the results of at least one analysis for that pollutant. If you mark any pollutant you must provide the results of a least one analysis for that pollutant. If you mark any pollutant you must provide the results of at least one analysis for that pollutant. If you mark column 2 to a scolar and a column 2 to a column 2 to a scolar and 2 to a column 2 to	cess wastewat ALL toxic meta for each pollute ast one analysi	s wastewater, refer to Table 25-2 in the instructions to determine which of the GCMS fractions you must test for. Mark "X" in column 2-a forall. Licoxic metals, cyanides, and total phenols, if you are not required to mark column 2-a fsecondary industries, nonprocess wastervater outfalls, and each pollutant you believe is absent. If you mark column one analysis for that pollutant you believe is absent. If you mark column 20 for any pollutant, you must provide the resolute of at least one analysis for that pollutant if you mark column 20 for any pollutant, you must provide the resolute of at least one analysis for that pollutant if you certain the column 20 for any pollutant, 2,4 dintrophenol, or preader, if you mark column 20 for acrollen, acylonitrile, 2,4 dintrophenol, or preader, if you mark column 20 for acrollen, acylonitrile, 2,4 dintrophenol, or preader.	2 in the instruction of the firstruction of the first of	ons to determine which	h of the GC/M nark column 2	Stractions y	ou must lest find the strip of	or Mark "X" nonprocess v slieve is abse	in column 2-a fe vastewater outte nt. If you mark for that pollura	orall alls, and column ntif you		
Column 2b, you may Complete one Jable	st either sub e (alf 7 pages 1ARK 'X BE c. BE BEVED LIEVI RRE AB	The results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 piblo or greater. Otherwise for pollutants for which you mark	oncentrations c lants which you	u know or have reasc	III you mark com on to believe tha	num equies, 9 cm; natural, math. A in building some an political you whow on taye reason to believe as pleasing an expension of a companies. The column 2-5 of acts polition you believe is absent. If you mark column 2b for any pollutent, you must provide the results of at least one analysis for that bollurant if you was pollutent, you must provide the results of at least one analysis for that bollurant if you was known as a column 2b for actolem, as violating them is a familiar phenel, or 2 mathyl-4. 6 dinitrophenel, you must provide the results for each of these pollutants which you was reason to believe that you discharge in concentrations of 100 pbb or greater. Otherwise for pollutants for you must you may	" in column 2- you must pro ryioninile, 2,4 centrations of	wide the resident dinitrophen 100 ppb or	of, or 2-methy greater. Othe	H.4. 6 dinitrop nvise for poll	henol, you musi utants for which	t provide 1 you mark	
AND CAS NUMBER (If available) (If available) Adimony (I(140:36:0) Arenic, Total (0:39:2) (1:740:41:7)	BE C.BE EVED LIEVI RE- AB.	columin 2b. you must either submit at least one analysis or Complete one table (aff 7 pages) for each outfall. See Inst. and 1 3 Mark 19:	or briefly descr istructions for a	briefly describe the reasons the polititent is exp ruptions for additional details and requirements.	odititant is expereduced in the control of the cont	briefly describe the reasons the polititant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully ructions for additional details and requirements.	Note that the	are are 7 par	jestothis part, ple	f please revn	ew each careful	Ļ	
NUMBER NG 10 10 10 10 10 10 10 1	IEVED LIEVE RE: AB: BENT SEN	DOUGH CHARGE TO SHOKE A	I V VAKE DE	OF TAXABLE DO NAME OF	20,100	City 1001 City	100		7	a	INDE OF STREET	option	
(if evaluable) RE. FF OUNTED SI METALS, CYANIDE, AND TOTAL IM. Antimony. IGAI (7440-36-0) RM. Arsenic Total 7440-38-2) RM. Bergillum, RM. Bergillum, RM. Bergillum,	RE: AB-		בי אשרחב	D. MAXIMUM SU DA	AY WALUE	C. LUNG ERM AVRG. VALUE (# Byallable)		PO ON	a CONCEN	E MASS	AVERAGE VALUE		D. NO OF
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M. Adimony. fola (7440-36-0) M. Arenic Total 7440-38-2) M. Benglium;	L PHENOLS	S CONCENTRATION		CONCENTRATION		CONCENTRATION		YSES			TRATION		
MA. Arsenic, Tokal 7440-38-2) MA. Bergillum: mär:77440-41-71													
M. Beryllum Total: (7440-41-7)	<u> </u>												
					,								
4M. Cadmium, Total (7440-43-9)													
5M. Chromium, Total (7440-47-3).				,									
6M Copper Total (740:50:8)		0.066						2	l/gm				
7M, Lead, Tolai (7439-92-1)													
8M. Mercury, Total (7439-97-6)													
9M. Nickel, Total: (7440-02-0)										-			
10M Selenium, Total (7782-49-2)													
11M. Silver, Total (7.440-22-4)													
12M Thaillum Fotal (7440-28-0)													
13M, Zinç, Total (7440-66-6)													
14M. Cyanide, Total (57-12-5)													
15M. Phenols. Total													
DIOXIN	Annual Color												
2,3,7,8-Tetra- chlorodibenzo.P		DESCRIBE RESULTS	S_										

March 1995 Mar	AGE V4			·		EPA LD: NUMBER (copy from tiem 1 of Formst) TN864006682	R. (cipy from tiem 1 ist TN8640006682	m t af Form 1) 3682	OUTFALL:NUMBER 005	NUMBER 005					
	TEST (G E. UIRED	MARK X b. 8E LIEVED 1 PRE- SENT	1 40 1 40 1 10	XIMUM DAILY (1) NJRATION	VALUE (2) MASS	3, EFFLUE B: MAXIMUM:30 DA (ff atvaliable) CONSENTRATION	Y VALUE	c LONG TERM AVI (# 3x9/lable (1) CONCENTRATION	G VALUE	d no of Anal- YSES	4. Un reation	S WASS	5. INT a LONG AVERAGE (1) CONCER-	AKE (épliona TERM VALUE (2) MASS	h no of Anal- Ysës
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NUMBER	a restrante	LIEVED	a MAXIMUM DALLY VALUE	Y WALUE	b. MAXIMUM 30 DAY VALUE (#avajable)	MY VALUE	⊊ LONG TERMAYRG: VAUUE (#ayalable)		e CO	88.5%	A. LONG	TERM VALIE	b.NO.OF
(if avaitable)	RE- PRE OUIRED SENT	SENT	(ff available) RE- PRE- AB- (1) OUIRED, SENT- SENT- CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(Z):MASS ANAL-	TRATION		(E) CONCEN (2) MASS Y	(2) MASS	YSES
C/MS FRACTION	BASEINEUTRAL	COMPO	SUNDO								325 Sec. 100		
(83-32-9)													
2B. Acenaphtylene (208-96-8)								<u> </u>					
38. Anthracene (120-12-7)													
4B. Benzidine (92-87-5)													
5B. Benzo (a) Anthracene (16-55-3)													
68. Benzo (a) Pyrene (50-32-8)													
78. 3.4:Benzo- fluorajnhene (205-99-2)													
88. Berizo <i>(ghi)</i> Perylene (191-24-2)			,		·								
9B. Berizo (k) Fluoranthene (207:08-9)													
10B. Bis (2:Chloro- ethoxy) Methane (111-91-1)													
11B Bis (2-Chloro- ethyl) Ether (111-44-4)													
128: Bis (2:Chloro- Isopropyl) Ether (102-60-1)													
13B Bis (2:Ethyl: nexyl) Phthalate (117-81-7)													
14B. 4-Bromo. phenyl Phenyl Elher (101,55-3)													
15B. Butyl Benzyl Pfithalate (85-68-7)													
16B. 2-Chlürö- naphthalene (91-58-7)					,								
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)				-									
18B Chrysene (218-01-9)													
19B_Dibenzo (a.h) Artifizioene (53-70-3)	ţ												
20B 1.2-Dichlorg- benzene (95:50-1)				·		_							
21B, 1,3-Dichloro- berzene (541-73-1)												-	

TINUED FROM PA	GE V-6 2 M∆	PK X			The second second	CAIT								
AND GAS NUMBER	NG LIEV	E. C. BE. NED LIEVEC	a MAXIMUM DAN	NLY VALUE	b. Maxidum 30 DAY VALUE		6. LONG TERM AVRG. VALUE (il avallable)	RG: VALUE	d NO. OF	a CONCEN	S MASS	5. INTAKE (a. LONG TERM AVERAGE VALUE	、器を なる。	NO OF
IS FRACTION - BA	SEINEUTRA	T SENT	CONCENTRATION CONDS (continued)	COWINITZ)	CONCENTRATION	(Z) MASS	CONCENTRATION	(2) MASS	ANAL- YSES	TRATION)	(3) CONCEN. (2) MASS TRATION		YSES
1.4-Dichloro- ane (106-46-7)			22g.1.4-Dichloro: berzene (106:46-7)											
238. 3.3. Dichloro- benzidine (91:94:1)														
248. Diethyl Phthalate (84-66-2)							-							
258. Dimethyl Phthalate (131-11-3)														
268 DI-N-Buryl Phthalate (84-74-2)														
278: 2 4:Dinitro- toluene (121-14-2)														
28B. 2, 6-Dintro- tofuene (606-20-2)														
29B. Di-N.Octyl Phihalate (117:84:0)														
30B. 1.2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)											 			
318. Fluoranthene (206-44:0)														
32B Fluciens (86-73-7)														
338. Hexachtoroberzente (118-74-1)														
34B. Hexa- chlorobutadiene (87-68-3)														
358 Hexachtoro- cyclopentadlene (77-47:4)														
368. Hexachloro- ethane (67-72-1)														
37B. Indeno. (1,2,3-ct). Pyrene (193-39-5).														
38B. Isophorane (78-59.1)														
39B. Naphthalene (91-20:3)														
408. Nilrobenzene (98-95-3)														
41B. N.Nitro. sodimettiylamine (62:75:9)			-							,				
428, N-Nitrosodi- Propylamine														

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	onal)	. 100			<u> </u>			ļ			ļ <u>.</u>	
	5. INTAKE (optional	/ALUE (2) MASS										!
	5. INTAKE (c	AVERAGE VALUE (1) CONCEN- (2) MA	TRATION									
		_ S	A.	्र इ 	-							
	MABL	VALUE b. MASS										
	A. UNITS a. LONG TERM	AVERAGE VALUE a CONCEN. b MAS	HALION	V. Jane J.						-		
MBER 005		d. NO, OF ANAL	8 8				}					
OUTFALL NUMBER 005		(2) MASS										
<u>ö</u>	A.AVRG V	0	No.									<u> </u>
orm 1.)	c. LONG TERM AVRG. VALUE	(If availab	2012187									
iem 1 of F 36682	G		5			ļ	ļ					
99y from 1 86400(NT Y VALUE	(2) MASS									1	
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ш	ALUE	(2) MASS										
	IM DAILY V	S Decre							-			
-	a: MAXIMUM DAILY VALUE	(1) CONCENTRATION									-	
	r ur s	172	1									
	RK 'X' E- 6 BE- JGD LEVER	A A B THE SEE SEE SEE SEE SEE SEE SEE SEE SEE S	(continu								$\overline{}$	
iE V-8	TEST B BE C	RE PRE-	GC/MS FRACTION FESTICIDES (continued)		<u> </u>							
SOM PAG	ni <u>Z</u>	- K- Q	ON: PES									
CONTINUED FROM PAGE V-8	1. POLLUTANT AND CAS NIMBER	avallable	FRACTI	778. Heplachlor poxide 1024-57-3)	18P. PCB-1242 (53469-21-9)	19P, PCB-1254 (11097-69-1)	20P. PCB-1221 (11104:28-2)	21P, PCB-1232 (11141-16-5)	(12672-29-6)	(11096-82-5)	(12674-11-2)	5-2)
CONTI	ئر نائر 145 ج	E	GC/MS	17B. Her Epoxide (1024-57	18P. P. (53469	19P, Pi (11097	20P. P. (11104	(41141 (41141 338 50	(12672	(11096-82-5) 94P PCR-10	(12674-11-2)	(8001-35-2)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same formal) instead of completing these pages. SEE INSTRUCTIONS V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 or hold 2. PART A. You must provide the results of at least one analysis for every pollutart in this table. 2. EFFLUENT. 1. POLLUTANT 2. EFFLUENT 1. MAXIMUM SO DAY VALUE 1. Maximum 30 DAY VALUE 2. EFFLUENT 3. MAXIMUM 30 DAY VALUE 4. Brichemical 3. MASS CONCENTRATION 4. Brichemical 5. MASS CONCENTRATION 6. MASS CONCENTRATION 7. PART A. YOU must provide the same or all or analysis for every pollutart in this table. 2. EFFLUENT 3. MAXIMUM 30 DAY VALUE 4. MAXIMUM 30 DAY VALUE 6. MASS CONCENTRATION 7. PART A. YOU must provide the same or all or analysis for every pollutart in this table. 7. FFLUENT 7. FFLUENT 7. MASS CONCENTRATION 7. PART A. YOU must provide the same or all or analysis for every pollutart in this table. 7. FFLUENT 7. FOLLUTANT 7. MASS CONCENTRATION 7. PART A. YOU must provide the same or all or analysis for every pollutart in this table. 7. FFLUENT 7. FOLLUTANT 7. MASS CONCENTRATION 7. PART A. YOU must provide the same or all or analysis for every pollutart in this table. 7. FFLUENT 7. FOLLUTANT 7. MASS CONCENTRATION 8. MASS 8. MASS CONCENTRATION 8. MASS CONCENTRATION 1. MASS CONCENTRATION	PE IN THE UNSH rate sheets (use the transfer of the transfer o	heets (use the same formal) in the first tree the same formal) in the first tree footing the feet for analysis: Maximum palry value (1) (2) Mass	ed from page 3 of 1- is for every pollularit is for every pollularit is maximum (fl ave	leting these pages. 3 of Form 2-C) 10 Litan in this table. Con 12 EFFLUENT MUM 30 DAY VALUE (1) MASS (1) MASS	mplete one table for in the form of the fo	TN864000682	N86400066	### Concept ### Concept ### TRATION ###################################	VITS VITSTAN VITSTAN	4. INTAKE (polional) a. LONG TERM AVERADE VALUE (1) (2) MASS	OUTFALL NO. 007
Brown Coby Cathor (Toby) Total Suspended Soluts (TS) E. Ammonia (#3 M)	39 2.9 50							mg/L mg/L mg/L			
i. Flow q. Temberature (winter) h. Temperature (summer)	VALUE 0 VALUE 2	0.51	VALUE VALUE		VALUE		- N	2	MGD °°	VALUE	
PARTE - Main PARTE - Main eithe provi	MINIMUM. 5.9 Mark: X' (in column 2 either directly, or hidling the condition of the column 2 z. Mark: X: 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.0	MAXIMUM 6.5 7.2 for each collusin frecily but expressiv, data or an explanation 1. MAXIMUM DAI	MINIMUM you'know or have in an efficent limital and their presence in you'know or have in an efficent limital and their presence in an efficent limital and their presence in an efficient limital and their presence l	MAXIMUM eason to believe is p ations guideline, youn ations guidelin	Spream. Mark. Lumus provide th Complete one Ta EFLUENT DAY VALUE (7) MASS	72 Win column 2-b for each pollutar e results of at least one analysis table for each cuttail. See the linst c. CONGTERM AVRG. VALUE (1) (2) MASS	12 an pollutant you e analysis for the ee the instructor ex yat ue	STANDA u belleve to be at pollutant. For ms for addition in No. or in No. or	STANDARD UNITS elleve to be absent. If you mark collutant. For other polibitarits for foreadditional details and require. 4: UNITS NO. OF A. CONCEN. B. MASS NAM. TEATION	\ 8₹ <u>₽</u>	in is firrited in the state of
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rgra.rescoual c. color d. Fecal	< × ×	35						+ + +	PC Units		
e. Flübride (1698A-48.8) (Nitrate. Nitrite (as N)	× ×	0.24						u	mg/L mg/L		
EPA Form 3510-2C (8-90)	1-2C (8-90)	·				Page V-1				CONTIN	CONTINUE ON PAGE V-2

	. [ANAL. YSES					-																	
	*KE (optional)	EUE (2) MASS																						
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A CONTRACTOR									,															
100 E	b. MAXIMUM:30 DAY VALUE	(II available) CONCENTRATION																ر						
	r value	(2) MASS										·							,					
	A MAXIMUM DAILY VALUE	(1) CONCENTRATION	0.1	< 5	0.05						490	< 0.02	0.64	< 0.1	1.3	0.043	1.5	0.0017	55	27	0.04	2.4	< 0.05	900.0
2. MARK X	10. BE	AB. SENT	×	×	×	;	×	×	×	×											. ,			
INUED F	. BE	PRE- SENT							200000	264447 600	×	×	×	×	×	×	×	×	× ,	×	×	×	×	×
I EM V-B CONTINOED FROM PAGE V-1	1 POLLUT	CAS NO.	g. Nitrogen, Total Organic (as.N)	h Oil and Grease	i Phosphorus (as P), Total (7723:14:0)	. Radioactivity (1) Alpha	Total (7) o⊶	12) beld. Totai	(3) Radium Total	(4) Radium 226, Tolai	k. Sulfate (as.SO ₄) (148 <u>08-79-8)</u>	l. Suffide (as S)	m Sulfite (as SO 4) (14265-45-3)	n. Surfactants	o, Aluminum, Total (7429-90-5)	p. Barlum, Total (7440-39-3)	q Bofon, Total (7440-42-8)	r. Cobalt, Total (7440-48-4)	s Iron Tolal (7439-89-6)	f Magneslum, Total (7439-95-4)	u, Molybdenum, Tolal (7439-98-7)	y Manganese. Total (7439-96-5)	W. Tirt, Total (7.440-31-5)	X Titanium. Total (7440-32-6)

Part Part	PART C: If you	are a primary	Industry an	If you are a primary industry and this outfall contains progressions for the contains and t	ocess waslew	ater, refer to Table 2c	c-2 in the instru	cess wastewater, refer to Table 26-2 in the instructions to determine which of the GCM/S fractions you must test for. Mark *X* in column 2.4 for all.	hich of the G	C/MS fractio	ns you must	lest for Mar	rk "X" in colum	in 2-a for all	
Comparison Com	Sucar nome 2a for know	quired GCIMS any pollutant, or have reason	is irrar apt (ractions) you must pour it to believe	ply to your industry and to it, mark "X" in column 2-b provide the results of at te et will be discharged in c	or ALL toxic me stor each pollu sast one analy oncentrations	elas, cyanidas, and tr flant you know or hav sis for that pollutent of 10 ppb or greater	otal phenols /e reason to be if you mark ed if you mark o	f you are no required lieve is present. Mark lium 2b for any politif olumn 2b for acrotein,	to mark colui "X" in coluin ant, you mus acrylonitrile,	mn 2-a (sec in 2-c for ea t proyide the 2-4 dinitrop?	ondary indust ch pollutant y results of at renot, or 2 me	ries, noripro ou believe is least one an	cess wastewa absent. If you halysis for that	iter outfalls, a u mark colum pollutant if yo u must provid	
The control of the	er em	sults of at leas. n 26, you must lete one fable (Cone anal	lysis for each of these poli binitiat least one analysis	lutants which, or briefly desc	Ou Know or have real or the real or the real or the reasons the reasons the real or the re	ison to balleve pollutant is ex	that you discharge in c pected to be discharge	concentration ad Note that	is of 100 ppi there are 7	our greater pages to this	Otherwise for part; please	or pollutants fo	r which you n carefully.	a. S
1	1. POLLUTANT	2.MA	RK X		S Supurpunua	3. EFFLUE	ENT			-	NO TO S	TS.	NI S	JTAKE CONTO	
		a. TEST. ING	E. C. BE	- 0		6. MAXIMUM 30.00		C LONG TERM AVRC			- F- €		NO Te	3 TERM	11 mag 11 mg
1		RE	T SENT		(2) MASS	(1) CONCENTRATION	4 - 13 - 1	CONCENTRATION	(2) MASS		TRATION .	2 2 3	(1) CONCENTOR		VSES
1	METALS, CYANIDE	AND TOTAL	PHENOLS	S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			1 2 2 2			1.0	4		in a second		
1	M. Antlmony; otal (7440:36-0)	×		0.0037		-					mg/L			7	
1	M. Arsentc, Total: 7440-38-2)	×		0.031						-	mg/L				
1	M, Beryllum, otal, (7440-41-7)	×		< 0.001						-	mg/L				
Solution Solution	M. Cadmium. otal (7440-43-9)	×		0.00058						-	mg/L				
	M. Chromlum, otal (7440-47-3)	×		< 0.001					-	-	mg/L				
	M. Copper, Total	×		< 0.001						-	mg/L				
1	M. Lead, Total 7439-92-1)	×		< 0.001						-	mg/L				
X	M. Mercury, Total 439-97-6)	×		< 0.0001						-	mg/L				
X < 0.0001 1 1 1 1 1 1 1 1 1	M. Nickel, Total 440-02-0)	×		0:008						-	mg/L				
S S S S S S S S S S	0M. Selenium (×		< 0.001						-	mg/L				
	1M. Silver, Total 440-22-4)	×		< 0.0001						-	mg/L				
X	2M Thallium, otal (7440-28-0)	×		< 0.002			-			-	mg/L				
X < 0.005 1 1 1 1 1 1 1 1 1	3M. Zino, Total 7440-66-6)	×		0.048						-	mg/L				
X	4M. Cyarilde, olai (57-12-5)	×	<u> </u>	< 0.005						-	mg/L				
DESCRIBE RESULT	5M, Phenois otal	×		< 0.005						-	mg/L				
DESCRIBE RESULT X DESCRIBE RESULT	IOXIIN						1.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	3.7,8-Tetra- hlorodibenzo-P									1					8

EPA LD. NUMBER (copy, from flein; 1 of Form f). CUTFALL NUMBER 007

AND CAS NUMBER	A TEST P. BE C. BE. ING TREVED	X CEVE		LY VALUE	b. MAXIMUM 30.DAY VALUE (if available)	AY VALUE	C. LONGTERM AVRG VALUE	G VALUE	d NO OF	4 UNITS	S. INTAKE (C a LONG TERM AVERAGE VALUE	b NO. OF
(il available)	RE. PRE-	SEN.		CONCENTRATION (1)	CONCENT	(2) MASS	CONCENTRATION	(2) MASS	ANAL	TRATION	(1) CONCENT (2) MASS TRATION	S YSES
(ig7-02-8)	× ×		5 	< 0.001	A TOTAL TO THE PROPERTY OF THE				-	mg/L		
2V. Acrytonitrile (107-13-1)	×		v	< 0.001					-	mg/L		-
3V. Benzene (71-43-2)	×	<u> </u>	0 >	< 0.001					_	mg/L		
4V Bis (Chloro- melhyl) Ether (542-88-1)		×										-
5V Bromoform (75-25-2)	×		0 v	< 0.001					-	mg/L		-
6V. Carbon Tetrachlorida. (56-23-5)	×		0 v	< 0.001					-	mg/L		-
7V. Chlarobenzene (108-90-7)	×		0 v	< 0.001					-	mg/L		
8V. Chlorodi- bromomethane (124-48-1)	×		v v	< 0.001					-	mg/L		
9V. Chloroethane (75-00-3)	×		0 >	< 0.001					-	mg/L		
10V, 2-Chloro- ethylvinyl Ether (110-75-8)	×		0 >	< 0.001					-	mg/L		
11V, Chloroform (67-56-3)	×		< 0.	< 0.0005					-	mg/L		
12V. Dichloro- bromomethane (75-27-4)	×		0 >	< 0.001					-	mg/L		
13V. Dichigra- difluoromethane 775-71-81	×		0	< 0.001			,		-	mg/L		-
14V. 1,1-Dichloro- elhane (75-34-3)	×	ļ	v	< 0.001					-	mg/L		
15V 1,2-Dichloro- ethane (107-06-2)	×	 	0 >	0.001	-				-	mg/L		
16V, 11-Dichloro- elhylene (75-35-4)	×		0 v	< 0.001					-	mg/L		-
17V, 1.2-Dichloro- proparie (78-87-5)	×		0 v	0.001					Ţ-	mg/L		-
18V. 1,3-Dichloro- propylene (542-75-6)	×		٠ ٧	< 0.001					<u>-</u>	mg/L		
19V. Ethylbeirzene (100-41-4).	×		0 >	< 0.001					_	mg/L		
20V. Methyl Bramide (74-83-9)	×		0 >	< 0.001			·		-	mg/L		
21V. Methyl Chloride (74-87-3)	×			0								

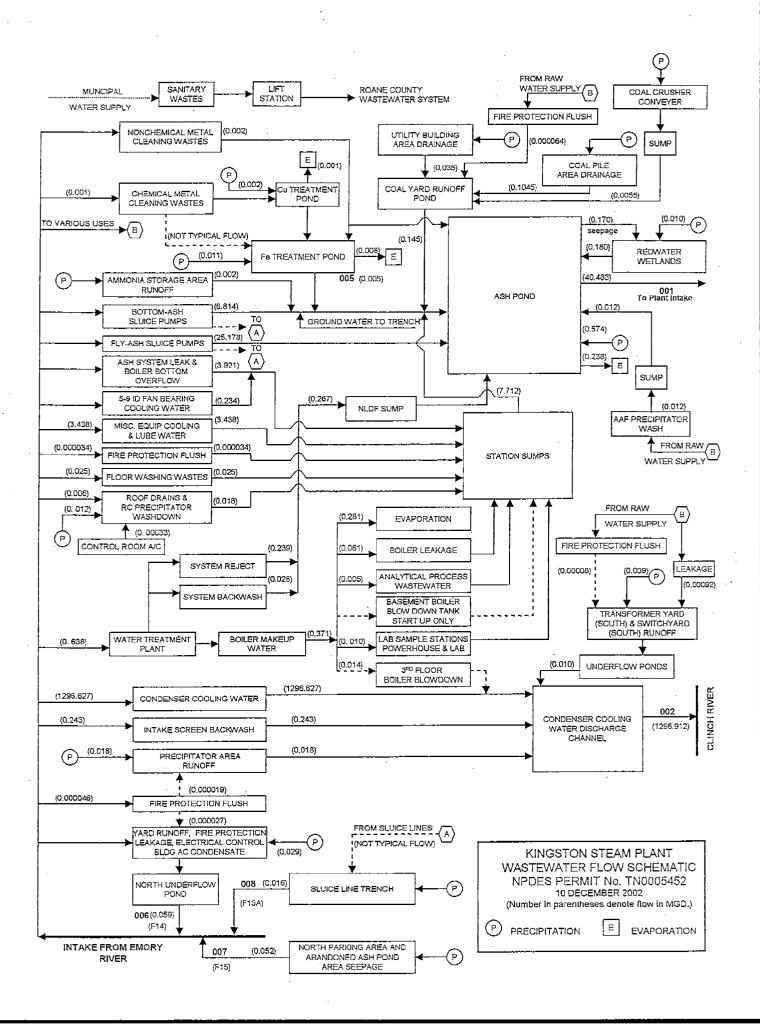
1. POLLUJANI 2. 2. 2. 2. 3. 3. 3. 3.	. John J.											
NUMBER POST MARA A	a MAXIMIII	T SITE AND A STATE OF	3, EFFLUE	ENT	STATE OF S			4. UNITS	S		(jeunal)	
27-16/3- X X X X X X X X X	OBABI OBABO	3	50,00	u mekumom atruer vetue (ifavailable)	ar watur	c. EUNG TERM AVRG. VALUE (ff.available)	G. VALUE	O ON	B, CONCEN-	b. MASS	AVERAGE VALUE	b NO. OF
(177-184) (177-184) (177-184) (177-184)	SENT SENT	GONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(Z) MASS	ANAL	TRATION		(1) CONCEN. (2) MASS TRATION:	,
	SUNDALINO.	(continued)							4			
(8. 25.24)		00.00						-	mg/L			
n Zuwi		< 0.0005						-	⊐/6ш			
wi i	·	< 0.0005						τ-	mg/L			
		< 0.001						-	mg/L			
26V 1.2-Trans Dichloroethylene (156-60-5)		< 0.001						-	mg/L			
27V. 1.1.1-frit- chloroethane X (71:55-6)		< 0.001						-	mg/L			-
28V. 1.1.2 Tri chloroethane (79-00-5)		< 0.0002							mg/L		<u></u>	<u> </u>
29V. Frichligro- ethylene (79-01-6).		< 0.001						-	mg/L			
30V. Trichlord: fluoromethana 775-69-41		< 0.001						~	mg/L			
75-01-4)		< 0.002						-	mg/L			
GC/MS FRACTION : ACID COMPOUNDS	SONNO		1 25% (20.0000)				September 1	900000000000000000000000000000000000000				
(95-57-8) X		< 0.005							mg/L	•		
ZA, Z, 4-Dichlero- phenol (120-83-2) X		< 0.005						-	mg/L			
36. 2,4.Dimethyl: phenol (105-67-9) X		< 0.005						~	mg/L			
4A. 4.6 Dintro 0 Cresol (534-52-1)		< 0.024						-	mg/L			
54. 2,4.Diatro phenol (51-28-5) X		< 0.042						-	mg/L			
64, 2:Nitrophenol (88-75-5) X		< 0.005						~	mg/L			
7A. 4: Nitrophenol (100:02:7)		< 0.03						-	mg/L			-
84 P:Chloio:40 Cresol (59-50-7) X		< 0.024						-	mg/L			
94. Pentachloro: phenol (87-86-5) X		< 0.005						-	mg/L			
10A Phenol (108-95-2)		< 0.005						-	mg/L	_		<u> </u>
11A. 2, 4,6-Trichlord- phenol (88-06-2)		< 0.0027						-	mg/L	-		

1. POLLUTANT	2.1	MARK X	-			3. EFFLUE	LN			1	A UNITS	ŀ	N L	LAKE (collon	ll e
	a. Test. b ING	BE-C	BE. EVED	a MAXIMUM DAILY VALUE	VAL	b. MAXIMUM 30 DAY VALUE (# available).	: :	C. LONG TERM AVRG. VALUE (# available)	G VALUE	d NO OF	a CONCEN	MASS	a CONG AVERAGE	TERM	B. NO. OF ANAL-
(if available)	RE- QUIRED S	RE- AC	N.	RE- PRE- AB- (1) QUIRED SENT SENT CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2):MASS		TRATION		(1) CONCEN- (2) MASS YE	(2) MASS	YSES
CMS FRACTION -	BASEINEL	TRAL CO	OMPOU	SQN											
(83-32-9)	×			< 0.001				·		-	mg/L				
2B. Acenaphtylene (208:96-8)	×			< 0.001						-	mg/L				
38. Anthracene (120-12-7)	×			< 0.0007			,			-	mg/L				
4B. Benzidine (92,87-5)	×		_	< 0.00008						-	mg/L				
5B, Benzo <i>(a)</i> Anthracene (56-55-3)	×			< 0.0003	,					-	mg/L				
6B. Benzo <i>(a)</i> Pyrene (50-32-8).	×			< 0.0003						-	mg/L				
78. 3.4-Benzo- Noranthene (205-99-2)	×			< 0.0003						-	mg/L				
88. Benzo (ghi) Perylene (191-24-2)	×			< 0.001						-	mg/L			·	
9B. Benzo (Kl. Fluoranthene (207-08-9)	×			< 0.0003	-					-	mg/L				
108, Bis <i>(2-Chloro-</i> athoxy) Methane. 111+91-11	×			< 0.005						-	mg/L				
11B_Bis <i>(?-Chloro-</i> ethyl) Ether (111-44-4)	×			< 0.001						-	mg/L				
12B. Bis /2-Ohloro- Sopropyl). Ether 102-60-1)	×			< 0.005						-	mg/L				
13B Bis <i>(2:Efnyl</i> <i>hexyl</i>] Phthalate (117-81-7)	×			0.015						-	mg/L				
14B. 4.Bromo+ phenyl Phenyl Ether (101-55-3)	×	- '		< 0.005						-	mg/L				
15B Butyl Benzyl Prithalate (85-68-7)	×			< 0.005							mg/L				
168, 2:Chloro- naphthalene 191-58-7)	×			< 0.005						~	mg/L				
178. 4-Chlore- pnenyl Phenyl Ether (7005-72-3)	×			< 0.005	· · · · · · · · · · · · · · · · · · ·					-	mg/L				
188 Chrysene (218-01-9)	×			< 0.001						-	mg/L				
19B. Dibenzo (a.ii) Anthracene (53-70-3)	×			< 0.001						-	mg/L				
20B. 1.2-Dichlora- benzene (95-50-1)	×			< 0.002	,					-	mg/L				
218, 1:3-Dichloro benzene (541-73-1)	×			< 0.002						,	mg/L				

Continue	ROM P.	AGE V.6					EPA (.D. NUMBER) (8640006	EFA.LD.NUMBER (geov.from.liem.f.of.Form.f) Nicolary TN8640006682	OUTFALL	UMBER 007	OUTFALLSNUMBERS CONTRACTOR OF 1				
Part Part		a TEST	MARK X b. BE- c LIEVED L	. BE-	. <u>'</u> 5″	ALUE	3, EFFLUE b, MAXIMUM 30 DA (ff available		e LONG	IG. WALUE	A NO OF	4. UN	TS h wass	5. IN a. LONG	TAKE (opilon) G TERM F VALUE	b, NO. OF
X X X X X X X X X X	/- _	RE. QUIRED ASE/NEL	SENT S ITRAL CO	MPOUN		(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION		YSES	TRATION		(1) CONCEN- (2) MASS TRATION	(Z) MASS	YSES
X X X X X X X X X X		×			< 0.0044			3				mg/L				5. 5
X X X X X X X X X X		×			< 0.025						·	mg/L				
X		×			< 0,0019						-	mg/L				
X					< 0.0016				·		7	mg/L				
X	Las A.	×			< 0.0025						-	mg/L	!			
X		×			< 0.001						-	mg/L				
X					< 0.005						-	mg/L			,	
X		×			< 0.01						·	mg/L				
				×												
X		×			< 0.001						-	mg/L				
X < 0.001		×			< 0.0003						-	mg/L				
X < 0.005	a E	×			< 0.001						-	mg/L				
X <0.003		×			< 0.005						-	mg/L				
X < 0.0005		×			<0.03						<u>.</u>	mg/L				
X < 0.001	1.4	×			< 0.0005		-				-	mg/L				
X < 0.005	1.				< 0.001						-	mg/L				
X < 0.001		×			< 0.005						-	mg/L				
X < 0.001 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					< 0.001						-	mg/L				
X < 0.0001 X < 0.00008		×			< 0.01				-		_	mg/L				
X < 0.00008					< 0.001						-	mg/L				
		×			< 0.00008						1	T/6w				

AND CAS STEST NUMBER NG (If available) QUIRED.	TEST DE BE- IG LIEVED S PRE UIRED SENT ENABLITANI CY	C. BE. LIEVED AB. SENT	a: TEST b. BE. C. BE. A MAXIMUM DALLY VALUE. NG. UIEVED LIEVED RE. PRE AB. (2) MASS RUMED SENTE SENT SENTE. RASENIEIT PAL CAMBOI INDS.	b. MAXIMUM 30 DAY VALUE: (I aranaba) (OONCENTRATION	C, LONG TERM AVRG VALUE (f. available) (1) (2) MAR CONCENTRATION	VALUE G. NO. OF (2) MASS ANALE WYSES	a. CONCI	D. MASS	5. INTAKE (option at LONG TERM AVERAGE VALUE (1) CONCEN (2) MASS TRATION	5. INTAKE (optional) LONG TERM DERAGE VALUE SEN TON (2) MASS TON	b, NO. OF ANAL- YSES
43B, N-Nilro; sodiphenylamine, (88-30-6)	×		< 0.005				mg/L				
44B, Phenanthrene (85-01-8)	×		20000 >			-	mg/L				
45B. Pyrene. (129-00-0)	×		< 0.0003			-	mg/L				
46B, 1,2,4 r Trit- chlorobenzene (120-82-1)	×		< 0.005			-	mg/L				
GC/MS FRACTION - PESTICIDES	TICIDES	17. 90		8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		A property of				1. A. 1. A. 1. B.	
1P. Aldon (309-00-2)		×	< 0.00001				mg/L				
2P. a-BHC (319-84-6)		×	< 0.00001				mg/L				
3P. B -8HC (319-85-7)		×	< 0.00001			-	mg/L				
4P, y- BHC (58-89-9)		×	< 0.00001			-	mg/L				
5P N-BHC (319-86-8)		×	< 0.00001			-	mg/L				
69, Chlordane (57,74-9)		×	< 0.00001			-	mg/L				
7P. 4,4-00T (50:29-3)		×	< 0.00001			-	mg/L				
8P. 4,4-DDE (72:55-9)		×	< 0.00001			-	mg/L				
9P. 4,4-DDD (72-54-8)		×	< 0.00001			-	mg/L				
10P. Dieldrin (60-57-1)		×	< 0.00001			-	mg/L				
11P. α-Endosulfan (115-29-7)		×	< 0.00001		,	-	mg/L				
12P_B-Endosulfan (115-29-7)		×	< 0.00001	-		-	mg/L		,		
Sulfate (1031-07-8)		×	< 0.00001			-	mg/L				
14P. Endrin (72-20-8)		X	< 0.00001			~	mg/L				
15P. Endrin Aldehyde (7421-93-4)		X	< 0.00001				mg/L				
16P. Heptachlor (76-44-8)		×	< 0.00001		•		ma/L				

	T.	
Honal Constitution of the	`	
LONG, TERM LONG, TERM ERAGE VALUE ON SON SON SON SON SON SON SON SON SON S		
S. S. INTAKE (C. A. LONG. TERM.) ANERAGE VALUE. (1) CONCEN.		
· · · · · · · · · · · · · · · · · · ·		
a.Long.Tetal a.Long.Tetal Avervice value Avervice v	<u> </u>	
	mg/L	mg/L
007 007 d NO. OF ANSES. 1 1 1	-	-
92 007 82 007 c. LONG TERMAVIGA WALUE c. LONG TERMAVIGA WALUE c. LONG TERMAVIGA WALUE c. LONG TERMAVIGA WALUE concentration. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
of Form 1). C.LONG TERMAVAG WALUE C.LONG TERMAVAYG CALUE CONCENTRATION C.LONG		
of Form 1)		
R84000668		
R (copy, fr. 17) 864 TN864 TN8		<u>.</u>
EPA I.D. NUMBER (copy from item 1 of Form 1) 3. EFFLUENT B. MAXIMUMAR DAY YALUE C. LONG TERM AVRG VALUE (1) (1) (2) MASS ANAL CONCENTRATION (1) (1) (2) MASS (1) (1) (1) (2) MASS (3) (4) (5) (6) (7) (7) (8) (9) (1) (1) (1)		
EBA LL		
(WALUE		
1, MAXIMUM DAIL Y VALUE 21, MASS CONCENTRATION 21, MASS CONCENTRATION 21, MASS 20,00005 20,000005 20,0000005 20,0000005 20,0000005 20,0000005 20,00000005 20,0000005 20,00000005 20,00000	< 0.00005	3005
	< 0.0	< 0.0005
SENT X X X X X X X X X X X X X X X X X X X	×	×
V-8 2-MARK ST-0-10-10-10-10-10-10-10-10-10-10-10-10-1		
PAGE V.8 a. TEST. Ib. BE. Ib.		a
	2)	onene.
CONTINUED FROM PAGE V-8 1. POLLUTANT AND CAS	24P. PCB-1016 (12674-11-2)	25P. Toxaphene (8001-35-2)



Please type or print in the unshaded	areas only.	EPA ID Number ((copy from Item AL7640006675		Form Approved OMB No. 2040-(Approval expires	0086
Form		nich Do No	t Discha	ırge Proce	ess Wastewa	
I. Receiving Waters 写序证明的	《西班牙斯斯斯·美国的 第二	STORES OF THE PROPERTY.	er water bed			
For this outfall, list the latitude a			water(s).			
Outfall Latitude Number (list) Deg Min Sec De		ving Water (name)	~~ <u>~</u>	·		
006 35 54 00 84 II. Discharge Date (If a new discharge		t intake canal (E ect to begin discharg				
III. Type of Waste A. Check the box(es) indicating the gr	correl type of waster	discharged /	A/C Cooling W	tor from Electric	al Control Bldg_Other	- Nongroope
Sanitary Wastes B. If any cooling water additives are u	Restaurant or Cafe	eteria Wastes	X None	contact Cooling Wa	ater Wast	tewater (identify)
No additives are used. IV. Effluent Characteristics	ECOLOGO REGISTRA	esperium and and and				
A. Existing Sources - Provide authority (see instructions) B. New Discharges - Provide authority. Instead of the number of the number of the second secon	measurements for the particular of measurement of measurement of measurements.	he parameters listed rameters listed in the ents taken, provide	d in the left-han ne left-hand colu the source of e	nd column below, u umn below, unless stimated values (se	nless waived by the pewaived by the permittir	ermitting
Pollutant or	(1 Maxir		Averag	(2) ge Daily	(3) (o Number of	(4) Source of
Parameter	Daily \ (include	Value	Value (/	last year) le units)	Measurements Taken	Estimate (if new
<u> </u>	Mass	Concentration	Mass	Concentration	(last year)	(IT new discharger)
Biochemical Oxygen Demand (BOD)		< 2 mg/L			1	
Total Suspended Solids (TSS)		< 1 mg/L			1	<u> </u>
Fecal Coliform (if believed present or if sanitary waste is discharged)		N/A				
Total Residual Chlorine (if		< 0.05			2	
chlorine is used)		mg/L Cl		ļ		
Oil and Grease		< 5 mg/L			1	
*Chemical oxygen demand (COD)		34 mg/L			1	
*Total organic carbon (TOC)		3.7 mg/L			1	
Ammonia (as N)		0.02 mg/L			1	
Discharge Flow	Value 0.52 N	viGD			1	
pH (give range)	Value 7.45 -	7.92			13	
Temperature (Winter)		°C		°C		
Temperature (Summer)	33.7	*C		*C	2	
If noncontact cooling water is discharg	jed		•	•		

EPA Form 3510-2E (9-86)

Page 1 of 2

W. Except for looks or calls will the displace decailed in this form he into without a second	· · · · · · · · · · · · · · · · · · ·
V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal? If yes, briefly describe the frequency of flow and duration.	Yes X No
· · · · · · · · · · · · · · · · · · ·	
	•
·	
\(\lambda \) \(\frac{1}{2} \) \(\frac{1}	
VI. Treatment System (Describe briefly any treatment system(s) used or to be used)	
NONE	
NONE	
	•
	· ·
	_
	·
VII. Other Information (Optional)	
VII. Other Information (Obtorio) [Information and Information (Obtorio) [Information and Information (Obtorio) [Information and Information (Obtorio) [Information and Information (Obtorio) [Information and Information (Obtorio) [Information and Information (Obtorio) [Information and Information (Information (Information and Information (Information (Informati	
Use the space below to expand upon any of the above questions or to bring to the attention of the rev	riewer any other information you feel
Use the space below to expand upon any of the above questions or to bring to the attention of the revisional deconsidered in establishing permit limitation. Attach additional sheets, if necessary.	riewer any other information you feel
Use the space below to expand upon any of the above questions or to bring to the attention of the rev	riewer any other information you feel
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DEPARTMENT OF ENVIRONMENT AND CONSERVATION

NPDES PERMIT APPLICATION ADDRESSES

All addresses must be co	mpleted e	ven if the same a	ddress is used:			
NPDES PERMIT NUM	IBER:	TN00054	52			
CORPORATE HEAD	QUARTE	RS (where permi	t should be sen	E) :		
CONTACT PERSON:	Janet K. V	Vatts, Manager, 1	Environmental	<u>Affair</u> s	TELEPHONE: (423) 751	-7292
COMPANY NAME; _		e Valley Authori		ossil Pl	ant	
STREET AND/OR P.O.	BOX:	1101 Market Stre	et, LP 5D		·	- ·
CITY: Chattanooga			_ STATE	TN	ZIP CODE:	37402
PERMIT BILLING AD	DDRESS (where invoices sl	hould be sent):			
CONTACT PERSON: J	anet K. W Name	atts, Mgr. Envirc	onmental Affair Title	<u>S</u>	TELEPHONE: (423) 75	1-7292
FACILITY NAME : _	Tennessee	Valley Authorit	y – Kingston F	ossil Pla	ant	
STREET AND/OR P.O.	BOX: <u>11</u>	01 Market Street	LP 5D			
CITY: Chattanooga			STATE:	TN	ZIP CODE:	37402
FACILITY LOCATION	N (actual l	ocation of permit	site):		·	
CONTACT PERSON:	Linda Ca Name	umpbell, Program	n Administrator Title	(Envir	onmental)	
FACILITY NAME: _	Tennesse	e Valley Authorit	tv – Kingston F	ossil Pl	ant	
STREET AND/OR P.O.	BOX: _	714 Swan Pond I	Road			
CITY: Kingston			STATE:	TN	ZIP CODE:	37748
COUNTY: Roane Cour	nty				TELEPHONE: (865) 717	7-2157
——————————————————————————————————————	RESS (who	ere preprinted Dis	scharge Monito	ring Re	eports should be sent):	
CONTACT PERSON:	Linda Car Name	npbell, Prog. Adı	m. (Environme Title	ntal)	TELEPHONE: (865) 717	-2157
FACILITY NAME:	Tennessee	Valley Authority	y – Kingston Fo	ssil Pla	nnt	
STREET AND/OR P.O. 1	BOX: _	714 Swan Pond	d Road			_
CITY: Kingston			_ STATE:	_TN_	ZIP CODE:	37748
CN-1090					RDAs 2352	AND 2366