Form Approved, OMB No. 2040-0086.

FORM U.S. ENVIRONMENTAL PROTECTION AGENCY I. EPA I.D. NUMBER									A I.D. NUMBER				
1	\$EPA				FORMA			S	NM0890010515			T/A	С
GENERAL					Permits Progractions" bef							_	D
								3 2	GENERAL INS	TRUCTIC	NS ta	14	15
LABEL	ITEMS								preprinted label has be	en provid	ded, affi		
I. EPA I.D. I	NUMBER							is inc	nated space. Review the in orrect, cross through it an	d enter the	e correct	t data	in the
			F						priate fill-in area below. Als sent <i>(the area to the lef</i>				
III. FACILITY	NAME	PLEASE	PLA	CE LA	BEL IN THI	IIS S	PACE	inforr	nation that should appear),	please pro	ovide it i	n the p	oroper
V. FACILITY	MAILING	i							area(s) below. If the label not complete Items I, III,				
ADDRESS									be completed regardless), been provided. Refer to the				
VI FACILITY	LOCATION							descr	iptions and for the legal a				
		TICC	-		_			data	s collected,				
										!			Щ.,
INSTRUCTION	S: Complete A th	rough J to determine whethe	r you i	need to	o submit an	ny p	ermit application forms to the	he EP	A. If you answer "yes" t	o any qu	estions	, you	must
you answer "no	to each questio	n, you need not submit any o	f these	e forms	s, You may	ans	swer "no" if your activity is e	exclude	ed from permit requirem	ents; se	e Section	on C c	of the
				-		\blacksquare					_	-	
	SPECIFIC QU	IESTIONS	YES	NO	FORM ATTACHED		SPECIFIC	QUE	STIONS	YES	NO		ORM CHED
						B.							
results in a d	ischarge to wate	ers of the U.S.? (FORM 2A)		X							X		
			16	17	18	1				19	20	2	21
C. Is this a faci	ity which curren	tly results in discharges to			\/	D.				1 A			
waters of th	LABEL ITEMS PA I.D. NUMBER CILITY MAILING DORESS CILITY MAILING DORESS CILITY LOCATION UTANT CHARACTERISTICS UCTIONS: Complete A through J to determine this form and the supplemental form listed in the were "no" to each question, you need not submons. See also, Section D of the instructions for SPECIFIC QUESTIONS Is facility a publicly owned treatment works in a discharge to waters of the U.S.? (FORM 2C) Or will this facility treat, store, or disported wastes? (FORM 3) For a public of the U.S. other than those described in the service of the U.S. other than those described in the fluids which are brought to the surfaction with conventional oil or natural gas produce ther fluids which are brought to the surfaction with conventional oil or natural gas produce the fluids used for enhanced recovery of oil or to inject fluids for storage of liquid hydrocar M 4) For a complete fluids for storage of liquid hydrocar M 4 For a complete fluid of the complete		X		X	1	or B above) which will res				IX		
above? (FOF	(M 2C)		22	23	24	1				25	26	2	27
						F.							
nazardous v	astes / (FURIVI .	3)	X								X		
			28	29	30	1					32	3	33
						H.	Do you or will you inject	at thi	s facility fluids for spec				
				$ \cdot\rangle $									
						1				iSII	X		
gas, or injec							ruel, or recovery or geotine	Jiiii di C	inergy: (i Ortivi 4)				
(FORM 4)			34	35	36					37	38	3	39
						J,							
			X				NOT one of the 28 indi	lustrial	categories listed in t notically emit 250 tons	ne	X		
pollutant regu	lated under the (Clean Air Act and may affect											
or be located	in an attainment	area? (FORM 5)	40	41	42			cated	in an attainment are	a? 43	44	4	15
III. NAME OF S	A OULTD/		-			_	(FORIVI 5)						
	ACILITY		7	7	W-12-70-1								
- CKID I - O	s' alamos'	NATIONAL LABORA	TOR	Ϋ́	E E E	100	9 9 3 9 6 6 6 96 90			1 1			
										69	1		
	ONTACT	VIII LITTE I	41			*							
		A, NAME & TITLE (last,	first, e	& title)			T	В.	PHONE (area code & no)]			
c DOME TO	1 1 1 1			\top	J	\Box							
	KAREN-	PERMITTING AND (LOMI	PLLITA	INCE PR	KO(
A Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A) A Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A) C Is this a facility which currently results in discharges to waters of the U.S. other than those sescribed in A or B above? (FORM 2C) C Is this a facility which currently results in discharges to waters of the U.S. other than those sescribed in A or B above? (FORM 2C) C Is this a facility which currently results in a discharge to waters of the U.S. other than those described in A or B above? (FORM 2C) C Is this a facility which currently results in a discharge to water or other and the U.S. other than those described in A or B above? (FORM 2C) C Does or will this facility in the facility control of the U.S. other than those described in A or B above? (FORM 2C) C Does or will this facility in the facility and produced water or other fluids which are brought to the surface in connection with conventional of or natural gas production, inject must be conventional to in result of the fluids which are brought to the surface in connection with conventional of or natural gas production. Inject fluids used for enhanced recovery of of or natural gas production. Inject fluids which are brought to the surface in connection with conventional of or natural gas production. Inject fluids which are brought to the surface in connection with conventional of or natural gas produced water or either and which will potentially entitle for surface in connection with conventional of or fluids for special processes such as mining of sulfur by the Frasch processes such as mining of sulfur by the Frasch processes such as mining of sulfur by the Frasch processes such as mining of sulfur by the Frasch processes such as mining of sulfur by the Frasch processes such as mining of sulfur by the Frasch processes such as mining of sulfur by the Frasch processes such as mining of sulfur by the Frasch processes such													
V. FACILTY MAI	LING ADDRESS	السيسيسار											
		A. STREET OR P.	O. BO	X		_							
	E NNSA LO	OS ALAMOS SITE C	FFI	ĊE	F & 30	1	11111						
							45						
-		B. CITY OR TOWN					C. STATE	D. ZIF	CODE				
c , ,	1 1 1		1		111								
4 LOS ALA	MOS	* 0 2 3			20.00		NM 8	/544	0 200				
							40 41 42 47		51				
VI. FACILITY L	OCATION												
			R SPE	CIFIC	IDENTIFIE	ER							
= 3747 WE	ST JEMEZ	ROAD A316	ı	1 1	1 1 1	ı	111111						
							AC						
		B COLINTY	NAMI	 E			40	F					
TOC AT THE	IIII					T							
	15						1960						
40		C CITY OR TOWN	- iii			_	D STATE I		CODE LE COUNT	CODE	(if buon	n)	_
C - [-] -	Total I	J. JATT OK TOVIN	3 3	r F	1 1 1	1		1 1		TI	y KHOW.	"")	
	MOS ' '		. '					7544		U#11			
15 16							40 41 42 47		51 52	-54		_	

EPA Form 3510-1 (8-90)

CONTINUED FROM THE FRONT	Walch 2019
VII. SIC CODES (4-digit, in order of priority)	
A. FIRST C (specify) NATIONAL SECURITY	B. SECOND Specify SPACE RESEARCH AND TECHNOLOGY
7 9711 (specify) Wallowall Secontiff	7 9661 specify of res abstract And Islandson
15 16 - 19 C. THIRD	15 16 - 19 D. FOURTH
c (specify) SCIENTIFIC RESEARCH	C (specify) ENERGY DEVELOPMENT
7 9922	7 9611
VIII OPERATOR INFORMATION	15 16 - 19
A, NAME	B. Is the name listed in Item
8 TRIAD NATIONAL SECUIRTY, LLC	VIII-A also the owner? ☐ YES ☑ NO
15 16	55 66
C. STATUS OF OPERATOR (Enter the appropriate letter into the	
M = PUBLIC (other than tederal or state) MI	pecify)
S = STATE P = PRIVATE O = OTHER (specify)	A (505) 667-4218
56	15 6 - 18 19 - 21 22 - 26
E, STREET OR P.O. BOX	
P.O. BOX 1663	
26	55
F. CITY OR TOWN	G. STATE H. ZIP CODE IX. INDIAN LAND
B LOS ALAMOS	NM 87544 □ YES ☑ NO
15 16	40 41 42 47 4 51
X. EXISTING ENVIRONMENTAL PERMITS	
A, NPDES (Discharges to Surface Water) D. PSD (Air En	nissions from Proposed Sources)
NM0028355 Q P P100R1	
9 N	
15 16 17 18 30 15 16 17 18 B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
C T DP-1835 S	EE APPENDIX A (specify)
9 0 9 9	30
15 16 17 18 30 15 16 17 18 C. RCRA (Hazardous Wastes)	E. OTHER (specify)
C T I	(specify)
9 R NM0890010515-1 9	
15 16 17 18 30 15 16 17 18 XI, MAP	30
	mile beyond 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	of its hazardous waste treatment, storage, or disposal facilities, and each well where it
injects fluids underground. Include all springs, rivers, and other surface water bodies	in the map area. See instructions for precise requirements.
XII. NATURE OF BUSINESS (provide a brief description) The Los Alamos Ntaional Laboratory is a multidisciplina	ry/multiprogram laboratory. The Laboratory's central
mission is to reduce the nuclear danger through evaluat	ion and stockpile stewardship. It also provides
significant programmatic support to many civilian effor	ts. Because of evolving technolgies and changing
national and international priorities, the Laboratory i development capabilities to solve civilian problems in	the areas of health, national infrastructure, energy,
education, aeronautics, and the environment. Extensive	basic research programs in physics, chemistry,
metallurgy, mathematics and computers, earth sciences,	and electronics support these efforts.
14	
XIII. CERTIFICATION (see instructions)	
	the information submitted in this application and all attachments and that, based on my tained in the application, I believe that the information is true, accurate, and complete. I
am aware that there are significant penalties for submitting false information, includi-	
A. NAME & OFFICIAL TITLE (type or print) B. SIGNATUR	H
William S. Goodrum, Manager Los	leased 3-25-2019
Alamos Field Office	B-25-2019
COMMENTS FOR OFFICIAL LISE ONLY	
COMMENTS FOR OFFICIAL USE ONLY	
C	

15 16 EPA Form 3510-1 (8-90)

itani Outfalla 2010 NIDDEC Damait Da Analization

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

2C SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

1	OUTE	ALL	100	CATION	

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 NUMBER	E	B, LATITUDE		С	LONGITUD	E	
(list)	1, DEG.	2. MIN.	3. SEC.	1, DEG.	2, MIN.	3, SEC.	D. RECEIVING WATER (name)
001	35.00	52.00	26.00	106.00	19.00	9.00 Perennial Reach of Sandia Canyon	
							Water Quality Segment 20.6.4.126 NMAC

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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) CON	TRIBUTING FLOW	3. TREATMENT						
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COD TABLE					
001	Power Plant Once Through Cooling	49,652 GPD	Dechlorination	2	Е				
	Sanitary Wastewater System (SWWS)	26,432 GPD	Grit Removal	1	M				
	Treated Effluent		Mixing	1	0				
			Screening	1	T				
001			Sedimentation (settling)	1	U				
			Dechlorination	2	E				
			Disinfection (chlorine)	2	F				
			Activated Sludge	3	А				
001			Pre-Aeration	3	Е				
	9	(sludge)	Composting	5	G				
		(sludge)	Drying Beds	5	Н				
	x-1	(sludge)	Landfill	5	Q				
001	Sanitary Effluent Reclamation	39,807 GPD	Evaporation	1	F				
	Facility (SERF) Treated Effluent		Reverse Osmosis (Hyperfiltration)	1	S				
			Chemical Precipitation	2	С				
			Dechlorination	2	Е				
001			Neutralization	2	K				
			Reduction	2	L				
		(reuse of SWWS Effluent)	Reuse/Recycle of Treated Effluent	4	С				
		141	Landfill	5	Q				
001			Pressure Filtration	5	R				
	Strategic Computing Complex (SCC)	50,679 GPD	Dechlorination	2	E				
	Treated Cooling Tower Blowdown		Disinfection (other)	2	Н				
Ì			Reduction	2	L				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

	YES (complete the follow				NO (go to Sec	1				
					EQUENCY			4. FLOW	VOLUME	
	2. OP	ERATION(s)		a. DAYS PER WEEK	b. MONTHS	a, FLOW RA	TE (in mgd)	B. TOTAL (specify w		
1. OUTFALL NUMBER (list)		BUTING FLOW (list)		(specify average)	PER YEAR (specify average)	1, LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2, MAXIMUM DAILY	C. DURATIO (in days)
01	Power Plant Once	Through Cod	oling	7.0	12.0	0.050 MGD	0.195 MGD	49,652 GALLONS	194,524 GALLONS	365
	Sanitary Wastewat Effluent	er System	(SWWS)	7.0	12.0	0.026 MGD	0.209 MGD	26,432 GALLONS	209,173 GALLONS	365
	Sanitary Effluent Facility (SERF) E		on	7,0	12.0	0.040 MGD	0.122 MGD	39,807	121,914 GALLONS	365
	SCC Cooling Tower	Blowdown		7.0	12.0	0.051 MGD	0,105 MGD	GALLONS	104,804 GALLONS	365
								50,679 GALLONS		
									1	
. PRODUCTIO	ON			-34-						-
Does an effl	uent guideline limitation	promulgated b	y EPA under S				ur facility?			
	YES (complete Item III-I	3)			NO (go to Sec	ction IV)				
B. Are the limit	ations in the applicable e	effluent guidelii	ne expressed in				eration)?			
	YES (complete Item III-C				NO (go to Sec					
	ered "yes" to Item III-B, effluent quideline, and inc			ents an actua	al measurement	of your level of	production, ex	pressed in the	terms and uni	ts used in th
орриосоло с	sindoni galdelino, dine ini		RAGE DAILY F	PRODUCTIO	N			0.45	FOTED OUT	TALLO
a. QUANTITY	PER DAY h LINITS	OF MEASUR	F	c. OPERAT	ION, PRODUCT	The state of the s	ECTED OUT ist outfall numb			
J. GO/111111	TENDAN DIGITIE	OF MEXICON			(specify)			***		
A	NA		NA					NA		
/. IMPROVEN			lead a state a site					4		- f
	ow required by any Fed equipment or practices or									
	ditions, administrative or		orders, enforcer	nent complia			court orders,	and grant or loa	n conditions.	
✓	YES (complete the follow	wing table)			NO (go to Ite	em IV-B)				
	ATION OF CONDITION, EEMENT, ETC.		ECTED OUTFA		3. BRIEF	DESCRIPTION	OF PROJEC	' <u> </u>	INAL COMP	
		a, NO,	b, SOURCE OF D	DISCHARGE				a, F	REQUIRED	b. PROJECTE
5T3 Tempera effluent li monitoring 5T3 = 20C a the date or	Schedule to meet ature of 20C. The limit and requirement of are effective on ne-day before the tration date		Power Plant Through Coo SWWS Efflue: Effluent, S Cooling Tow Blowdown	ling, nt, SERF CC ers	Pursuent to 2 quality stand determine if are prevnetim aquatic life listed as imp 2018-2020 Int assigned an I the need for standard.	ions ldwater ter was in the 05b) and cating	1/14 9	/29/19		
	L: You may attach addi s) you now have underwa									

EPA Form 3510-2C (8-90)

PAGE 2 of 4

EPA I,D. NUMBER (copy from Item 1 of Form 1)

CON

NOTE: Tables V-A, V-B, and V-	 C are included on separate sheets numbe 		
 Use the space below to list any of the p from any outfall. For every pollutant you 	pollutants listed in Table 2c-3 of the instruc I list, briefly describe the reasons you belie	ctions, which you know or have reason to be ve it to be present and report any analytical	elieve is discharged or may be discharge data in your possession.
1, POLLUTANT	2. SOURCE	1, POLLUTANT	2, SOURCE
Strontium Styrene Uranium	Sanitary Wastewater System (SWWS) Effluent. A review of the waste stream profiles associated with the water treated at the SWWS identified the 7 Form 2C-3 pollutants listed in Section V.D.1.		
÷			
I. POTENTIAL DISCHARGES NOT COVE	ERED BY ANALYSIS		
s any pollutant listed in Item V-C a substan	ce or a component of a substance which ye	ou currently use or manufacture as an interr	nediate or final product or byproduct?
YES (list all such pollutants b	pelow)	NO (go to Item VI-B)	

EPA Form 3510-2C (8-90)

VII. BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to beli	eve that any biological test for acute or chronic toxicit	y has been made on any of your dis	scharges or on a receiving water in
relation to your discharge within the last 3 year YES (identify the test(s) and des		NO (go to Section VIII)	
Whole Effluent Toxicity 7 Day 75%, and 100%. Ceridoaphnia dubia, 24-hr Pimephales promelas, 24-h		n 100% with a dilution	series of 32%, 42%, 56%,
See the DMR Summary Report pr	ovided in Attachment D of the Fact	Sheet provided with th	ne permit application.
VIII. CONTRACT ANALYSIS INFORMATION			
	performed by a contract laboratory or consulting firm?)	
_	d telephone number of, and pollutants analyzed by,		
each such laboratory or fir		NO (go to Section IX)	
A, NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843)556-8171	VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910)795-0421	Dioxins and Furans
New Mexico Water Testing Laboratory Inc.	401 North Coronado Ave, Espanola, NM 87532	(505) 929-4545	E-Coli
Pacific BcoRisk	2250 Cordelia Rd., Fairfield CA 94534	(707) 207-7760	Whole Effluent Toxicity
IX, CERTIFICATION			A THE STATE OF THE STATE OF
I certify under penalty of law that this docun qualified personnel properly gather and ev directly responsible for gathering the inform	nent and all attachments were prepared under my dir aluate the information submitted. Based on my inqu ation, the information submitted is, to the best of my information, including the possibility of fine and impris	iry of the person or persons who knowledge and belief, true, accurat	manage the system or those persons
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO. (area code & no.)	
Michael W. Hazen, Associate I	aboratory Director ESHQSS	(505) 667-4218	
C. SIGNATURE	Am	D. DATE SIGNED 3-20-19	
EPA Form 3510-20 (8-90)	PAGE 4 of 4	3-2011	

1 3510-2C (8-90) PAGE

	ve that any biological test for acute or chronic toxici	ty has been made on any of your dis	scharges or on a receiving water in
relation to your discharge within the last 3 year YES (identify the test(s) and desc		NO (go to Section VIII)	
EXTR	A PAGE FOR SIG	NATURE OI	NLY
	erformed by a contract laboratory or consulting firm' delephone number of, and pollutants analyzed by, below) B. ADDRESS	NO (go to Section IX) C. TELEPHONE	D. POLLUTANTS ANALYZED
A. NAME	B. ADDRESS	(area code & no ₁)	(list)
	7		
X, CERTIFICATION	Manager of the Control of the Contro	Ecological Control of the Control of	
qualified personnel properly gather and evaludirectly responsible for gathering the informati	nt and all attachments were prepared under my dire late the information submitted. Based on my inqu on, the information submitted is, to the best of my l formation, including the possibility of fine and impris	iry of the person or persons who re knowledge and belief, true, accurate	manage the system or those persons
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO. (area code & no.)	
illiam S. G oodrum, Manager Los	s Alamos Field Office	(505) 667-5105	
SIGNATURE CONTROLL		3- 25 - 19	1
	DACE 4 of 4		

PAGE 4 of 4

Los Alamos National Laboratory EPA ID No. NM0890010515

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				2. EFFLU	ENT					3. UNITS 4. INTAKE (specify if blank) (optional)			
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa			c, LONG TERM AVRG, VALUE (if available)				a. LONG T AVERAGE		L NO 05	
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES	
a. Biochemical Oxygen Demand (BOD)	1.8	4.996	(D)				1	mg/L	lbs	NA	NA	NA	
b. Chemical Oxygen Demand (COD)	58.1	161.3					1	mg/L	lbs	NA	NA	NA	
c. Total Organic Carbon (TOC)	5.85	16.24					1	mg/L	lbs	NA	NA	NA	
d. Total Suspended Solids (TSS)	7.2	19.985	7.2	13.04	1.986	2.55	49	mg/L	lbs	NA	NA	NA	
e, Ammonia (as N)	0.207	0.5746	(0)				1	mg/L	lbs	NA	NA	NA	
f, Flow	VALUE 0.3326	(A)	VALUE 0.2171	(A)	VALUE 0.1539 (A)	365	MGD	NA	VALUE NA		NA	
g. Temperature (winter)	VALUE 15.6	(B)	VALUE 14.1	(B)	VALUE 13.4 (B)	13	°C		VALUE NA		NA	
h. Temperature (summer)	VALUE 20.9	(B)	VALUE 20.6	(B)	VALUE 20.0 (B)	13	°C		VALUE NA		NA	
i, pH	MINIMUM 7 (C)	MAXIMUM 8.5 (C)	MINIMUM 7.3 (C)	MAXIMUM 7.9 (C)			208	STANDARE	UNITS		No. LET		

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	2. MA	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INT/	AKE (option	al)
1. POLLUTANT	a,	b,	a. MAXIMUM DA	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)				a. LONG TERM AVERAGE VALUE		L NO 05
CAS NO. (if available)	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		3.62	10.05					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0	0	0	0	0	0	208	mg/L	lbs	NA	NA	NA
c. Color	X		5	NA					1	PCU	NA	NA	NA	NA
d. Fecal Coliform	X	4	71.7	(K)	15.4	(K)	6.87	(K)	96	#/100mL	NA	NA	NA	NA
e, Fluoride (16984-48-8)	X		0.152	0.4219					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		1.69	4.69					1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

	2, MA	RK "X"			3,	EFFLUENT				4. UNI	rs	5. INT/	AKE (option	al)
1. POLLUTANT AND CAS NO.	a	b,	a, MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AV (if availab		4 NO 05	- OONOEN		a, LONG TE AVERAGE V		
(if available)	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (<i>as</i> <i>N</i>)	X		1.14	3.16					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.46	<4.05	(E)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		1.83	5.079	(0)				1	mg/L	lbs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total		X	<1.65	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		10.1	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.39	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<0.15	NA	(E)				1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₄) (14808-79-8)	X		12.9	35.81					1	mg/L	lbs	NA	NA	NA
I. Sulfide (as S)		X	<0.033	<0.0916	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	×		1	2.776	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants		X	<0.017	<0.0472	(E)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	×		<19.3	<0.0536	(G,N)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		16.8	0.0466	(H)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		82.4	0.2287	(H)				1	ug/L	lbs	NA	NA	NA
r, Cobalt, Total (7440-48-4)	X		<0.3	<0.0008	(F,N)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		37.9	0.1052	(D,O)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	×		2930	8.133	(0)				1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		1	0.0028	(H)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		4.78	0.0133	(D)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<0.0028	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<0.0056	(E,N)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

NM0890010515 001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitine, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

	1	2. MARK "X	C P			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if avo			20110511		a. LONG TI AVERAGE V		b. NO. O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	NA N	ANALYSE
METALS, CYANIDE	E, AND TOT	AL PHENC	DLS												
1M. Antimony, Total (7440-36-0)		7	X	<1	<0.003	(F)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<6e-03	(G,N)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<6e-04	(F)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<8e-04	(F)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		<3	<8e-03	(F,N)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		5.45	0.0151					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)			X	<0.5	<0.001	(F)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)		X		<0.067	<2e-04	(G,N)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<2e-03	(G,N)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)			X	<2	<6e-03	(F)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<8e-04	(f)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		60	0.1665					1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)		X		<1.67	<5e-03	(F,N)				1	ug/L	lbs	NA	NA	NA
15M, Phenols, Total		X		<1.67	<5e-03	(E,O)				1	ug/L	lbs	NA	NA	NA
DIOXIN								"							
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			X	DESCRIBE RESU	JLTS: Anal	ytical Result = .	all pg/L (lo	ower than the MDI) however	, the MDL use	ed is greater	than 10 p	B/L.		

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CONTINUED FROM		2. MARK "X	ы			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND	a,	b,	c. BELIEVED	a. MAXIMUM DA		b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		NO 65	- 001051		a, LONG TI AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- VOLATII	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<5e-03	(F)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<5e-03	(F)				1	ug/L	lbs	NA	NA	NA
3V, Benzene (71-43-2)		X		1.81	5e-03	(H,O)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(I)									
5V, Bromoform (75-25-2)		X		3.16	9e-03	(H)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<9e-04	(F)	fin			1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)		X		1.47	4e-03	(H)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<0.005	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)		X		0.82	2e-03	(D,O)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)		×		1.41	4e-03					1	ug/L	lbs	NA	NA	NA
13V, Dichloro- difluoromethane (75-71-8)						(I)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
16V_1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<9e-04	(F,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)		X		<0.333	<9e-04	(F,O)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	11			3. E	FFLUENT				4. UN	ITS	5. INTA	AKE (optiona	ul)
1. POLLUTANT AND	a,	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ava		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	I – VOLATII	LE COMPO	UNDS (con	(inued)											
22V. Methylene Chloride (75-09-2)			X	<1.67	<5e-03	(F)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
25V, Toluene (108-88-3)		X		<0.333	<9e-04	(F,O)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
27V, 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
28V, 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(I)					ug/L	lbs	NA	NA	NA
31V, Vinyl Chloride (75-01-4)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS													
1A. 2-Chiorophenol (95-57-8)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
5A, 2,4-Dinitro- phenol (51-28-5)			X	<5.32	<1e-02	(F)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.19	<9E-03	(E)				1	ug/L	lbs	NA	NA	NA
7A, 4-Nitrophenol (100-02-7)			X	<3.19	<9E-03	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.19	<9E-03	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X				3, E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	1)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 E (if availab		c. LONG TERM VALUE (if ava		- 1 NO 05	CONCEN		a, LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – BASE/N	EUTRAL CO	OMPOUND	S					W.						
1B. Acenaphthene (83-32-9)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.319	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
3B, Anthracene (120-12-7)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
4B, Benzidine (92-87-5)			X	<4.15	<1e-02	(F)				1	ug/L	lbs	NA	NA	NA
5B, Benzo (a) Anthracene (56-55-3)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.32	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.319	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
10B, Bis (2-('hloro- ethoxy') Methane (111-91-1)			×	<3.19	<9e-03	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			×	<1.67	<5E-03	(F)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)		X		5.09	1e-02	(H)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromopheny Phenyl Ether (101-55-3)			×	<3.19	<9e-03	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
16B_ 2-Chloro- naphthalene (91-58-7)			X	<0.436	<1e-03	(F)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.19	<9e-03	(E)				1	ug/L	lbs	NA	NA	NA
	-	_	— • •			1									

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1

1

1

ug/L

ug/L

ug/L

ug/L

lbs

lbs

lbs

lbs

NA

NA

NA

NA

(F)

(F)

(F)

(F)

<9e-04

<9e-04

<9e-04

<9e-04

CONTINUE ON PAGE V-7

NA

NA

NA

NA

benzene (95-50-1) 21B, 1,3-Di-chlorobenzene (541-73-1)

18B. Chrysene

(218-01-9) 19B. Dibenzo (a,h) Anthracene

(53-70-3) 20B. 1,2-DichloroNA

NA

NA

NA

< 0.319

<0.319

< 0.333

< 0.333

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		2. MARK "X	ÇII			3. E	FFLUENT				4. UN	ITS	5. INTA	AKE (option	al)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ave				84	a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	– BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<3.19	<9e-03	(F)		à		1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.19	<9e-03	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.319	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
34B, Hexachloro- butadiene (87-68-3)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.19	<9e-03	(F) -				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.72	<1E-02	(F)				1	ug/L	lbs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	<0.319	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
41B, N-Nitro- sodimethylamine (62-75-9)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
42B, N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA

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	2	2. MARK "X	u			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		c. LONG TERM VALUE (if ava					a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S (continued)											
43B, N-Nitro- sodiphenylamine (86-30-6)			X	<3.19	<9e-03	(F,M)				1	ug/L	lbs	NA	NA	NA
44B, Phenanthrene (85-01-8)			X	<0.319	<9E-04	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.319	<9E-04	(F)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	I – PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
2P ₊ α-BHC (319-84-6)			X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.07	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.805	<2E-03	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
11P, α-Enosulfan (115-29-7)			X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
12P, β-Endosulfan (115-29-7)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
14P, Endrin (72-20-8)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.07	<2E-04	(F)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.07	<2E-04	(F)				1	ug/L	lbs	NA	NA	NA

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OUTFALL NUMBER EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515 001

CONTINUED FROM PAGE V-8

		2. MARK "X				3. E	FFLUENT				4. UN	IITS	5. INTA	KE (optione	ıl)
1, POLLUTANT AND	a.	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availat		c. LONG TERM VALUE (if ava		1 110 05	00110511		a. LONG T AVERAGE V		, NO 0E
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b, NO. OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.07	<2E-04	(F)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
20P, PCB-1221 (11104-28-2)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
21P, PCB-1232 (11141-16-5)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)		1.	X	<1.58	<4E-03	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL -001

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined
	using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and September 2018.
D	Value provided was estimated by the analytical laboratory.
Е	The analytical result provided is below the Method Detection Limit (MDL). There is not an EPA Region 6 approved Method Quantification Limit (MQL). The value provided is the MDL.
F	The analytical result provided is below the MDL and the EPA Region 6 approved MQL. The value provided is the MDL.
G	The analytical result provided is below the MDL but is above the EPA Region 6 approved MQL. The value
	provided is the MDL.
Н	The analytical result provided is above the MDL but is below the EPA Region 6 MQL.
	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
J	Results were obtained using the EPA Aroclor Method 608.3 as required by the Form 2C.
К	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
М	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-
	nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is
	measured as diphenylamine).
N	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in
	the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or
	marked as "believed present" in the previous permit application submitted in 2012.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

NPDES

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

Form Approved.

OMB No. 2040-0086,

Approval expires 3-31-98,

Please print or type in the unshaded areas only.

FORM SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I, OUTFALL LOCATION							
For each outfall, list the	latitude and l	ongitude of its	s location to t	he nearest 15	seconds and	the name of	the receiving water.
A. OUTFALL NUMBER	E	3. LATITUDE		С	. LONGITUDE		
(list)	1. DEG.	2. MIN.	3. SEC.	1, DEG	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
03A027	35.00	52.00	26.00	106.00	19.00	9.00	Perennial Reach of Sandia Canyon
							Water Quality Segment 20.6.4.126 NMAC
				-			

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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) CONTR	RIBUTING FLOW	3. TREATME	NT	
FALL NO. (list)		b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COD TABLE	ES FROM 2C-1
03A027	Strategic Computing Complex (SCC)	50,679 GPD	Dechlorination	2	Е
	Treated Cooling Tower Blowdown		Disinfection (other)	2	Н
			Reduction	2	L
			*		
			+		

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

	torm runoff, leaks, of YES (complete the		the discharges descr	ibed in Ite	ems II-A or B int		sonal?			
				3, FRE	QUENCY			4. FLOW		
			a. D.	AYS PER				B, TOTAL	VOLUME	
1, OUTFALL NUMBER (list)		2. OPERATION(s) ONTRIBUTING FLOW (list)	(NEEK specify verage)	b. MONTHS PER YEAR (specify average)	a. FLOW RA 1. LONG TERM AVERAGE	TE (in mgd) 2. MAXIMUM DAILY	(specify w 1, LONG TERM AVERAGE	2 MAXIMUM DAILY	C. DURATION (in days)
03A027	Treated Cooli	ng Tower Blowd	own 7.0		12.0	0.051 MGD	0.105 MGD	50,679 GALLONS	104,804 GALLONS	365
III. PRODUCTION			by EPA under Section		he Clean Water NO (go to Sec		ur facility?			
R Are the limit			ine expressed in term				ration)?			
D. Are the limit	YES (complete Iter		ine expressed in term	is of prod	The state of the s	SALES CONTRACTOR CONTRACTOR	rauon) (
C. If you answ			ity which represents			-/-	production, ex	pressed in the	erms and uni	ts used in the
applicable e	effluent guideline, a	ind indicate the affe	cted outfalls.			,				
	r	1. AVE	RAGE DAILY PROD					2. AFF	ECTED OUT	FALLS
a, QUANTITY	PER DAY b. U	INITS OF MEASUR	RE C, C	PERATI	ON, PRODUCT (specify)	, MATERIAL, ET	ГС.	(li	st outfall numb	ers)
IV. IMPROVEN	MENTS			E.						
A. Are you no	ow required by any	y Federal, State o	r local authority to n	neet any	implementation	schedule for t	he construction	n, upgrading o	r operations	of wastewater
		ve or enforcement	vironmental programs orders, enforcement of	complian		ers, stipulations,				not limited to,
	ATION OF CONDIT	TION, 2, AFF	ECTED OUTFALLS			DESCRIPTION	OF PROJEC			IANCE DATE
		a, NO,	b, SOURCE OF DISCHA	ARGE				a, F	REQUIRED	p. PROJECTED
NA		NA	NA	N	А			NA	N	А
discharges constructio	s) you now have un	derway or which yo	describing any addi ou plan. Indicate whet	ther each	program is nov	v underway or p				

PAGE 2 of 4

EPA I.D. NUMBER (copy from Item 1 of Form 1)

CONTINUED FROM PAGE 2

NM0890010515

V. INTAKE AND EFFLUENT CHARACTER			
NOTE: Tables V-A, V-B, and \	eding – Complete one set of tables for each /-C are included on separate sheets numbe	red V-1 through V-9.	
	pollutants listed in Table 2c-3 of the instructure ulist, briefly describe the reasons you believe		pelieve is discharged or may be discharged data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Aniline Carbon Disulfide Cresol Strontium Styrene Uranium Vanadium	Sanitary Effluent Reclamation Facility (SERF) Effluent Makeup Water: The effluent from the Sanitary Wastewater System (SWWS) treatment plant is routed to SERF for additional treatment so that it can be recycled and used as makeup water at the SCC Cooling Towers. A review of the waste stream profiles associated with the water treated at the SWWS identified the 7 Form 2C-3 pollutants listed in Section V.D.1.		
VI. POTENTIAL DISCHARGES NOT COV			and the section of th
Is any pollutant listed in Item V-C a substail YES (list all such pollutants	nce or a component of a substance which you	ou currently use or manufacture as an inter NO (go to Item VI-B)	rmediate or final product or byproduct?
NA		To (go to nom + 1 b)	
			à.
	DACE a of		CONTINUE ON DEVEDSE

os Alamos National Laboratory PA ID No. NM0890010515		NPDES-F2C-1	8-003-R0, Form 2C Outfall 03A027 March 2019
CONTINUED FROM THE FRONT			Maich 2019
VIL BIOLOGICAL TOXICITY TESTING DA	ATA	MARKET NO.	
	believe that any biological test for acute or chronic toxicity	has been made on any of your	discharges or on a receiving water in
relation to your discharge within the last 3 YES (identify the test(s) and	•	NO (go to Section VIII)	
Whole Effluent Toxicity 7 D 17%, 23%, and 31%.	ay Chronic Toxicity. Critical dilutio	on of 23% with dilution	on series of 10%, 13%,
	hr composite, 1/5 Years -hr composite, 1/5 Years		
results indicated that the Pimephales promelas. No fu	27 was performed on March 16, 18, and effluent from Outfall 03A027 passed turther WET testing has been performed. Heet provided with the permit applicate	the test for both Ceri See the WET Test Su	idoaphnia dubia and
~			
VIII CONTRACT ANALYSIS INFORMATI			
	V performed by a contract laboratory or consulting firm?		
each such laboratory of	, and telephone number of, and pollutants analyzed by, r firm below)	NO (go to Section IX)	
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843) 556-8171	VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910)795-0421	Dioxins and Furans
New Mexico Water Testing Laboratory Inc.	401 North Coronado Ave, Espanola, NM 87532	(505) 929-4545	E-Coli
Pacific EcoRisk	2250 Cordelia Rd., Fairfield CA 94534	(707) 207-7760	Whole Effluent Toxicity
IV OFFICIATION			
IX. CERTIFICATION	cument and all attachments were prepared under my dire	ction or supervision in accordan	no with a system designed to assure the
qualified personnel properly gather and directly responsible for gathering the infe	l evaluate the information submitted. Based on my inqui ormation, the information submitted is, to the best of my k	iry of the person or persons wh nowledge and belief, true, accur	to manage the system or those person
A. NAME & OFFICIAL TITLE (type or print	lse information, including the possibility of fine and imprise t)	B. PHONE NO. (area code & no.)	
	Laboratory Director ESHOSS	(505) 667-4218	

C. SIGNATURE

PAGE 4 of 4

D. DATE SIGNED

3-20-19

Los Alamos National Laboratory NPDES-F2C-18-003-R0, Form 2C Outfall 03A027 EPA ID No. NM0890010515 March 2019 CONTINUED FROM THE FRONT VII. BIOLOGICAL TOXICITY TESTING DATA Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years? YES (identify the test(s) and describe their purposes below) NO (go to Section VIII) EXTRA PAGE FOR SIGNATURE ONLY VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? NO (go to Section IX) $oxedsymbol{oxdet}$ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED A. NAME B. ADDRESS (area code & no.) (list) IX. CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that

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

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)
William S. Goodrum, Manager Los Alamos Field Office	(505) 667-5105
C. SIGNATURE	D. DATE SIGNED

EPA Form 3510-2C (8-90)

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Los Alamos National Laboratory EPA ID No. NM0890010515

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY, You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (cop) from Item 1 of Form 1)

NY0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 03A027

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	90			2. EFFLU	ENT			3. UN (specify if			4. INTAKE (optional)	
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availe	시구를 잃었는 집에 대표하였다.	c. LONG TERM AVF (if available		1 NO OF	- CONOTN		a. LONG ¹ AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	3.37	2.95					1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	47.4	41.5					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	12.7	11.1					1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	5.52(A)	4.83	4.86(A)	2.93	2.31(A)	0.976	10	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.112	0.098	(P)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.105	(A)	VALUE 0.072	(A)	VALUE 0.051 (2	A)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 19 (В)	VALUE 18.1	(B)	VALUE 17.3 (E	3)	13	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 24.6	(B)	VALUE 23.0	(B)	VALUE 22.8 (B)	15	°C		VALUE NA		NA
i. pH	MINIMUM 7.4 (C)	MAXIMUM 9.1 (C)	MINIMUM 7.7 (C)	MAXIMUM 8.3 (C)	CA STATE	· · · · · · · · · · · · · · · · · · ·	51	STANDARD	UNITS		130 %	

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	2. MA	RK "X"			3,	EFFLUENT				4. UNI	ΓS	5. INT	AKE (option	al)
1. POLLUTANT AND	a.	b.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		c. LONG TERM A' (if availa			221051		a. LONG TERM A		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		2.98	2.61					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0 (P)	0	0 (P)	0	0 (P)	0	103	mg/L	lbs	NA	NA	NA
c. Color	X		<5	NA	(F,E,O)					PCU	NA	NA	NA	NA
d. Fecal Coliform	X		6.3(A,L)	NA	6.3(A,L)	NA	1.9(A,L)	NA	48	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.107	0.094					1	mg/L	lbs	NA	NA	NA
f, Nitrate-Nitrite (as N)	X		0.950	0.831	(P)				1	mg/L	lbd	NA	NA	NA

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Los Alamos nal Laboratory
EPA ID No. 890010515
ITEM V-B CONTINUED FROM FRONT

LIEM A-R CONT		RK "X"			3.	EFFLUENT				4. UNI	rs	5. INTA	AKE (optiona	ıl)
1. POLLUTANT AND	a.	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A					a. LONG TE AVERAGE V		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		2.27	1.99					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.41	<1.23	(E)					mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		3.55(A,P)	3.10	3.55(A,P)	2.14	2.19(A,P)	0.928	9	mg/L	lbs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total	X		2.79(A)	NA	2.79(A)	NA	1.9(A)	NA	2	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		12.3	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total	X		5.72	AN					1	pCI/L	NA	NA	NA	NA
(4) Radium 226, Total	X		5.47	NA					1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₄) (14808-79-8)	X		18.0	15.74					1	mg/L	lbs	NA	NA	NA
I, Sulfide (as S)		X	<0.033	<0.0289	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		6.0	5.25	(P)				1	mg/L	lbs	NA	NA	NA
n. Surfactants	X		0.0204	0.018					1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	X		23.2 (A)	0.0203	23.2 (A)	0.014	19.4 (A)	0.0082	3	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		8.92	0.0078	(I)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		109	0.0953					1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<0.0003	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		<33	<0.0289	(E,O,P)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		2050	1.79	(P)				1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		0.868	0.0008	(I)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		3.63	0.0032	(D)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<0.0009	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<0.0017	(E,O)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

03A027

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

addition	nal details ar	nd requirem	nents.												
		2. MARK "X	("			3, E	FFLUENT				4, UN	IITS	5. INTA	AKE (options	ıl)
1. POLLUTANT AND	a.	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if av			20110511		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OI ANALYSE
METALS, CYANID	E, AND TO	TAL PHENO	OLS					1							
1M. Antimony, Total (7440-36-0)			X	<1	<9e-4	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<0.002	(H,O)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<2e-4	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		<3	<0.003	(G,O)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		16.3	0.0143					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)			X	<0.5	<4e-4	(G)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)		X		<0.067	<1e-4	(H,O)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<5e-4	(H,O)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		<2	<0.002	(G,O)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
12M, Thallium, Total (7440-28-0)			X	<0.6	<5e-4	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		206	0.180					1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<0.002	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols, Fotal		X		5.03	0.0044	(P)				1	ug/L	lbs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P-			X	DESCRIBE RESU	ILTS Ana	lytical Result =	<10.€ pg/L	(less than the M	IDL), hower	ver, the det	ection limit	(MDL) was g	greater than the	EPA Region	6 MQL

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CONTINUE ON REVERSE

Dioxin (1764-01-6)

Los Alamos nal Laborate EPA ID No. 18890010515 nal Laboratory CONTINUED FROM THE FRONT

		2. MARK "X	n			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	ıl)
1. POLLUTANT AND CAS NUMBER	a,	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERM VALUE (if ava		1 NO OF	20110511		a. LONG T AVERAGE V		
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO, OF ANALYSES
GC/MS FRACTION	I – VOLATII	LE COMPO	UNDS					147					(t)		
1V. Accrolein (107-02-8)			X	<1.67	<2e-3	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<2e-3	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)		X		<0.333	<3E-4	(G,O,P)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(J)									
5V. Bromoform (75-25-2)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<3e-4	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			×	<1.67	<1e-3	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)		X		<0.333	<3e-4	(E,O,P)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<3e-4	(E)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(٦)							x		
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<3e-4	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<3e-4	(G,M)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)		X		<0.333	<3e-4	(G,O,P)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
21V, Methyl Chloride (74-87-3)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA

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	2	2. MARK "X				3, E	FFLUENT				4. UN	ITS		KE (optiona	ıl)
1. POLLUTANT AND	a,	b.	C,	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ava		1 NO 05	- 001051		a. LONG T AVERAGE \		b. NO. O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d, NO, OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS (cont	inued)											
22V. Methylene Chloride (75-09-2)		X		2.94	3e-3	(I)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)		X		<0.333	<3e-4	(G,O,P)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<3e-4	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<3e-4	(G)			-	1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	– ACID CO	MPOUNDS							l				'		
1A. 2-Chlorophenol (95-57-8)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
2A, 2,4-Dichloro- phenol (120-83-2)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.0	<4e-3	(G)				1	ug/L	lbs	NA	NA	NA
6A, 2-Nitrophenol (88-75-5)			X	<3.0	<3e-6	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.0	<3e-3	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.0	<3e-3	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
11A, 2,4,6-Trichloro- phenol (88-05-2)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA

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Los Alamos inal Laboratory EPA ID No. 1890010515 CONTINUED FROM THE FRONT

		2. MARK "X					FFLUENT				4. UN	ITS		KE (optiona	(1)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DAI		b. MAXIMUM 30 [(if availal		c. LONG TERN VALUE (if ava		1 NO CE	- CONCEN		a. LONG T AVERAGE V	ERM 'ALUE	L NO OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.9	<3e-3	(B)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (<i>a</i>) Anthracene (56-55-3)			×	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
6В. Benzo (a) Ругепе (50-32-8)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			×	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
9B, Benzo (<i>k</i>) Fluoranthene (207-08-9)			X	<3.0	<3e-3	(B)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-(`hloro- ethoxy) Methane (111-91-1)			×	<0.003	<3e-6	(B)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
13B. Bis (<i>2-Ethyl-</i> <i>hexyl</i>) Phthalate (117-81-7)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.0	<3e-3	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.41	<4e-4	(G)		-		1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.0	<3e-3	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
20B, 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<3e-4	(G)	ii.			1	ug/L	lbs	NA	NA	NA
21B, 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA

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	- 2	2. MARK "X	ш				FFLUENT				4. UN	ITS		KE (optiona	ıl)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ava		d. NO. OF	a. CONCEN-		a, LONG T AVERAGE V		b. NO. O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	I – BASE/N	EUTRAL C	OMPOUNE	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<3E-4	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
24B, Diethyl Phthalate (84-66-2)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
25B, Dimethyl Phthalate (131 -11-3)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
26B, Di-N-Butyl Phthalate (84-74-2)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
28B. 2,6-Dinitro- toluene (606-20-2)			X	<3.0	<3e-3	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.3	<3e-4	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<3e-03	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.3	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.5	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	<0.3	<ee-4< td=""><td>(E)</td><td></td><td></td><td></td><td>1</td><td>ug/L</td><td>lbs</td><td>NA</td><td>NA</td><td>NA</td></ee-4<>	(E)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.0	<3e-3	(G)		•		1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA

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Los Alamos nal Laboratory EPA ID No. 1890010515 CONTINUED FROM THE FRONT

4 DOLLUTARE		2. MARK "X	1				FFLUENT				4. UN	ITS		KE (optiona	1)
1. POLLUTANT AND CAS NUMBER	a.	p.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ave		d. NO. OF	a CONCEN-		a. LONG T AVERAGE V		L NO 05
(if available)		PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<3E-03	(G,N)				1	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.3	3e-4	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.3	3e-4	(G)				1	ug/L	lbs	NA	NA	NA
46B ₂ 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.0	3e-3	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	N – PESTIC	IDES			11										
1P. Aldrin (309-00-2)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
2P ₊ α-BHC (319-84-6)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.00739	<6e-6	(E)	11			1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.085	<7e-5	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
11P, α-Enosulfan (115-29-7)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)	-		X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

CONTINUED FROM PAGE V-8

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03A027

	2	. MARK "X	"		3. EFFLUENT					4. UN	5. INTAKE (optional)				
1. POLLUTANT AND CAS NUMBER (if available)	a. TESTING REQUIRED	b.	C,	a. MAXIMUM DAI	b. MAXIMUM 30 DAY VA 1 DAILY VALUE (if available)			c. LONG TERM AVRG. VALUE (if available)					a. LONG TERM AVERAGE VALUE		
			BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO, OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)			"									
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
19P, PCB-1254 (11097-69-1)		X		<0.0362	<3e-5	(G,K,P)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
21P, PCB-1232 (11141-16-5)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.167	<1e-4	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A027

Α	Calculated using data collected between October 2015 and September 2016.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using
	data collected between October 2015 and September 2016.
С	The pH values provided were determined using data collected between October 2015 and September 2016.
D	Value provided was estimated by the analytical laboratory.
E	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved EPA
	Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
F	Preparation or preservation holding time was exceeded and the value provided has been estimated by the
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided is
	the MDL.
Н	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region 6
	approved MQL. The value provided is the MDL.
I	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
	Results were obtained using the EPA Aroclor Method 608.3 as required by the Form 2C. Please note, however,
К	that PCBs are believed to be present due to the use of recycled treated effluent from SWWS as makeup water in
	the cooling towers.
L	The E. Coli result is provided as an indicator for Fecal Coliform.
М	Result is for cis- and trans-1,3 dichloropropylene.
	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-
N	nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is
	measured as diphenylamine).
	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in
0	the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or
	marked as "believed present" in the previous permit application submitted in 2012.
Р	Identified as a potential pollutant from one of the sources discharging to the outfall.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0.890.010515

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

Please print or type in the unshaded areas only.

2C SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

NPDES	~	
I. OUTFALL I	OCATION	

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 NUMBER	1	B. LATITUDE		C, LONGITUDE					
(list)	1. DEG.	2. MIN.	3, SEC.	1. DEG.	2. MIN. 15.00	3, SEC. 45.00	D. RECEIVING WATER (name)		
03A048	35.00	52.00	11.00	106.00			Ephemeral Tributary to Los Alamos		
							Canyon, Water Quality Segment		
							Number 20.6.4.128 NMAC		

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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) CON	TRIBUTING FLOW	3. TREATMENT					
FALL NO. (list)		b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1				
03A048	TA-53-963/964 West and 978/979 East	87,606 GPD	Dechlorination	2	Е			
	Cooling Towers		Disinfection (other)	2	Н			
	- Treated Cooling Tower Blowdown		Reduction	2	L			
	· · · · · · · · · · · · · · · · · · ·							

OFFICIAL USE ONLY (effluent guidelines sub-categories)

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		ete the follow			3 FF	NO (go to Sec			4. FLOW		
					a. DAYS PER				B. TOTA	T	
4 007			ERATION(s)		WEEK	b. MONTHS PER YEAR (specify average)	a, FLOW RA	1	(specify with units)		
1. OUTFALL NUMBER (list)		CONTRIL	BUTING FLOW (list)		(specify average)		1, LONG TERM AVERAGE	2, MAXIMUM DAILY	1, LONG TERI AVERAGE	2, MAXIMUN DAILY	C. DURATIO (in days)
33048	Cooling T	Towers	t and 978/ oling Towe		7	12	0.088 MGD	0.169 MGD	87,606 GALLONS	168,900 GALLONS	365
II. PRODUCTIO	DN NC										
A, Does an effl		e limitation		by EPA unde	r Section 304 of	f the Clean Water	11.6	ur facility?			
B. Are the limit:			5	ne expresse	d in terms of pro	oduction (or other		eration)?			
	YES (compl	lete Item III-(7)		,	NO (go to Sec	ction IV)				
			list the quanti			al measurement	of your level of	production, ex	pressed in the	terms and u	nits used in th
ahhiicable e	uent guide	mie, and inc			Y PRODUCTIO	N					TEALLS
a. QUANTITY	QUANTITY PER DAY b, UNITS OF MEASURE					TION, PRODUCT (specify)	, MATERIAL, E	TC.	2. AFFECTED OUTFALLS (list outfall numbers)		
NA		NA		NA		., 971			NA		
treatment e	ow required equipment or ditions, admir	practices or	r any other en enforcement wing table)	orders, enfor	programs which cement complia	ny implementation may affect the diance schedule lett	scharges descr ers, stipulations	ribed in this app	olication? This and grant or lo	includes, but pan conditions	is not limited t
1. IDENTIFICA AGRE	ATION OF C		2. AFF	b. SOURCE C	TFALLS OF DISCHARGE	3, BRIEF	DESCRIPTION	1	T 4. FINAL COMPLIANCE I		
NA :			NA	NA		NA			N		NA
discharges) you now ha					water pollution co					
constructio	7	IE DESCRI	PTION OF A	DITIONAL	CONTROL PPO	GRAMS IS ATTA	CHED				

EPA I.D. NUMBER (copy from Item 1 of Form 1)

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V, INTAKE AND EFFLUENT CHARACTER										
A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.										
D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.										
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2, SOURCE							
NA	NA	NA	NA							
			h .							
1										
VI. POTENTIAL DISCHARGES NOT COV	EDED BY ANALYSIS									
	nce or a component of a substance which yo	ou currently use or manufacture as an intern	nediate or final product or byproduct?							
YES (list all such pollutants		NO (go to Item VI-B)								
NA										
1										
			1							

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Do you have any knowledge or reason to beli relation to your discharge within the last 3 years	eve that any biological test for acute or chronic toxicity	has been made on any of your dis	scharges or on a receiving water in
YES (identify the test(s) and des		NO (go to Section VIII)	
	, ,		
AN			
		1	
VIII. CONTRACT ANALYSIS INFORMATION			
Were any of the analyses reported in Item V	performed by a contract laboratory or consulting firm?		
	d telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory or fit	m helow)	[NO (go to Section 1X)	
A, NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843) 556-8171	VOC, SVOC, Pesticides,
dan naboracorres and	2010 Bavage Road, Charleston Sc 25407	(8497930 0171	Metals, Radiochemistry,
			General Chemistry, BOD, TSS
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120,	(910)795-0421	Dioxins and Furans
	Wilmington NC 28405		
New Mexico Water Testing	401 North Coronado Ave, Espanola, NM	(505) 929-4545	E-Coli
Laboratory Inc.	87532	(303/323 4343	1 6011
1	I control of the cont		
*			
IN OCCUPATION			
IX. CERTIFICATION			
I certify under penalty of law that this docur	nent and all attachments were prepared under my dire		
I certify under penalty of law that this docur qualified personnel properly gather and ev directly responsible for gathering the inform	raluate the information submitted. Based on my inqui pation, the information submitted is, to the best of my ki	ry of the person or persons who nowledge and belief, true, accurat	manage the system or those persons
I certify under penalty of law that this docur qualified personnel properly gather and ev directly responsible for gathering the inform are significant penalties for submitting false	valuate the information submitted. Based on my inqui nation, the information submitted is, to the best of my k information, including the possibility of fine and impriso	ry of the person or persons who nowledge and belief, true, accurat onment for knowing violations	manage the system or those persons
I certify under penalty of law that this docur qualified personnel properly gather and ev directly responsible for gathering the inform	valuate the information submitted. Based on my inqui nation, the information submitted is, to the best of my k information, including the possibility of fine and impriso	ry of the person or persons who nowledge and belief, true, accurat	manage the system or those persons
I certify under penalty of law that this docur qualified personnel properly gather and ev directly responsible for gathering the inform are significant penalties for submitting false	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my kinformation, including the possibility of fine and imprise	ry of the person or persons who nowledge and belief, true, accurat onment for knowing violations	manage the system or those persons
I certify under penalty of law that this docur qualified personnel properly gather and ev directly responsible for gathering the inform are significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print) Michael W. Hazen, Associate I	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my kninformation, including the possibility of fine and imprise Laboratory Director ESHQSS	ny of the person or persons who nowledge and belief, true, accurate the same of the person of the pe	manage the system or those persons
I certify under penalty of law that this docur qualified personnel properly gather and evidirectly responsible for gathering the informare significant penalties for submitting false. A. NAME & OFFICIAL TITLE (type or print)	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my kninformation, including the possibility of fine and imprise Laboratory Director ESHQSS	ny of the person or persons who nowledge and belief, true, accurate the summent for knowing violations. 3. PHONE NO. (area code & no.) (505) 667-4218 D. DATE SIGNED	manage the system or those persons
I certify under penalty of law that this docur qualified personnel properly gather and ev directly responsible for gathering the inform are significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print) Michael W. Hazen, Associate I	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my kninformation, including the possibility of fine and imprise Laboratory Director ESHQSS	ny of the person or persons who nowledge and belief, true, accurate the same of the person of the pe	manage the system or those persons

EPA ID No. NM00890010515 March 2019 CONTINUED FROM THE FRONT VII, BIOLOGICAL TOXICITY TESTING DATA Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years? YES (identify the test(s) and describe their purposes below) NO (go to Section VIII) EXTRA PAGE FOR SIGNATURE ONLY VIII, CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? NO (go to Section 1X) YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED A. NAME B. ADDRESS (area code & no.) (list) IX, CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations A. NAME & OFFICIAL TITLE (type or print) B. PHONE NO. (area code & no.) William S. Goodrum, Manager Los Alamos Field Office (505) 667-5105

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C. SIGNATUR

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D. DATE SIGNED

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA LD. NUMBER (copy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 03A048

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

			2. EFFLU	ENT						4. INTAKE (optional)	
a. MAXIMUM DA	AILY VALUE					4 NO OF	- CONCEN				b. NO. OF
(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
1.86	2.62	(D)				1	mg/L	lbs	NA	NA	NA
24.6	34.7					1	mg/L	lbs	NA	NA	NA
2.78	3.92					1	mg/L	lbs	NA	NA	NA
5.90	8.32	5.9	7.06	1.96	1.43	17	mg/L	lbs	NA	NA	NA
0.0382	0.054	(D)				1	mg/L	lbs	NA	NA	NA
VALUE 0.1689	(A)	VALUE 0.1434	(A)	VALUE 0.0876 (A)	365	MGD	NA	VALUE NA		NA
VALUE 17.9 ((B)	VALUE 16.7	(B)	VALUE 16.1 (B)	13	°C		VALUE NA		NA
VALUE 23.5 ((B)	VALUE 22.6	(B)	VALUE 21.7 (B)	12	°C		VALUE NA		NA
MINIMUM 6.9 (C)	MAXIMUM 8.9 (C)	MINIMUM 7.3 (C)	MAXIMUM 8.7 (C)			208	STANDARE	UNITS			
	CONCENTRATION 1.86 24.6 2.78 5.90 0.0382 VALUE 0.1689 VALUE 17.9 VALUE 23.5 MINIMUM	CONCENTRATION (2) MASS 1.86 2.62	a. MAXIMUM DAILY VALUE (if availation (1) (2) MASS CONCENTRATION (2) MASS CONCENTRATION (1) (1) (1) (2) MASS 1.86 2.62 (D) 24.6 34.7 (D) 2.78 3.92 (D) 5.90 8.32 5.9 0.0382 0.054 (D) VALUE 0.1689 (A) VALUE 0.1434 VALUE 17.9 (B) VALUE 16.7 VALUE 23.5 (B) VALUE 22.6 MINIMUM MAXIMUM MINIMUM	a. MAXIMUM DAILY VALUE b. MAXIMUM 30 DAY VALUE (if available) concentration (2) MASS concentration (2) MASS 1.86 2.62 (D) (D) 24.6 34.7 (D) (D) 5.90 8.32 5.9 7.06 0.0382 0.054 (D) (D) VALUE 0.1689 (A) VALUE 0.1434 (A) VALUE 17.9 (B) VALUE 22.6 (B) VALUE 22.6 (B) MINIMUM MAXIMUM MINIMUM MAXIMUM	a. MAXIMUM DAILY VALUE	a. MAXIMUM DAILY VALUE b. MAXIMUM 30 DAY VALUE (if available) c. LONG TERM AVRG. VALUE (if available) CONCENTRATION (2) MASS (1) CONCENTRATION (2) MASS 1 . 86 2 . 62 (D) (1) CONCENTRATION (2) MASS 2 . 78 3 . 92 (D) (D)	a. MAXIMUM DAILY VALUE	Security Security	a. MAXIMUM DAILY VALUE b. MAXIMUM 30 DAY VALUE (if available) c. LONG TERM AVRG. VALUE (if available) d. NO. OF ANALYSES b. MASS 1.86 2.62 (D)	A MAXIMUM DALLY VALUE S. MAXIMUM DALLY VALUE S. LONG TERM AVR. VALUE S. LONG TERM AVER. S. LONG TERM AVER. VALUE S. LONG TERM AVER. VAL	Secretary Secr

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	The second second second	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INT	AKE (optiona	al)
1. POLLUTANT	a.	b.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERM AV (if availal		1 NO 05	DONOTH		a. LONG TERM A VALUE		L NO 05
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		4.22	5.95					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0 (0)	0.00	0.00 (0)	0.00	0.00 (0)	0.00	209	mg/L	lbs	NA	NA	NA
c. Color		X	<5	NA	(E)				1	PCU	NA	NA	NA	NA
d. Fecal Coliform		X	1	NA	(K)				1	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.59	0.832					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		3.11	4.38					1	mg/L	lbs	NA	NA	NA

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TEM V-B CONT	2. MA				3.	EFFLUENT				4. UNI	TS	5, INT	AKE (option	al)
1, POLLUTANT AND CAS NO.	a.	b.	a, MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A (if availa		1 NO 05	OONOTH		a. LONG TE AVERAGE V		
(if available)	BELIÉVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.334	0.471					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.44	NA	(E)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		0.192	0.271	0.192	0.23	0.136	0.0997	17	mg/L	lbs	NA	NA	NA
j. Radioactivity							ĺ							
(1) Alpha, Total		X	<1.85	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		16.8	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.189	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total	X		<0.103	NA	(E,N)				1	pCi/L	NA	NA	NA	, NA
k. Sulfate (as SO ₃) (14808-79-8)	X		35.5	50.00					1	mg/L	lbs	NA	NA	NA
I. Sulfide (as S)		X	<0.033	<5e-02	(E)				1	mg/L	lbs	NA	NA	NA
m, Sulfite (as SO ₃) (14265-45-3)	X		13.8	19.45	(0)				1	mg/L	lbs	NA	NA	NA
n, Surfactants	X		<0.017	<0.02	(F,N)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Totał (7429-90-5)	X		<19.30	<0.0272	(H,N)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		76.4	0.108	(I)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		66.4	0.0936	(I)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<4.2e-4	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)		X	<33	<0.0465	(E)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		11800	16.6					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		2.45	3.45e-3					1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)		X	<1	<1.4e-3	(E)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<1.4e-3	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<2.8e-3	-(E,N)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

OUTFALL NUMBER

03A048

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater, If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements:

		2. MARK "X	10			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND	a.	b.	C.	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c, LONG TERM VALUE (if ava		J NO OF	- CONCEN		a. LONG TE AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
METALS, CYANIDE	E, AND TO	AL PHENC	LS												
1M. Antimony, Total (7440-36-0)			X	<1	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		4.26	0.006	6.2	7.4e-3	4.06	3e-3	5	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<3e-04	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		9.43	1.3e-2	(D,I)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		1.06	1.5e-3					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)			X	<0.5	<7e-04	(G)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)			X	<0.067	<9e-05	(H)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<8e-04	(H,N)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		<2	<3e-03	(G,N)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<8e-04	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)			X	<3.3	<5e-03	(G)				1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)		X		<1.67	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenois, Total			X	<1.67	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
DIOXIN													·		

Dioxin (1764-01-6)

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	- :	2. MARK "X				3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	ul)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA		b. MAXIMUM 30 I (if availa		c. LONG TERM VALUE (if av		/ NO 05	20110511		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- VOLATII	E COMPO	UNDS			Tail		3							
1V. Accrolein (107-02-8)			X	<1.67	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(٦)				*					
5V. Bromoform (75-25-2)		X		<0.333	<5e-04	(G, N)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
9V, Chloroethane (75-00-3)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(J)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<5e-04	(G,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	, II			3. E	FFLUENT				4. UN	ITS	5, INTA	AKE (option	ul)
1, POLLUTANT AND	a	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ave			201051		a. LONG T AVERAGE \		
CAS NUMBER (if available)	TESTING REQUIRED			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – VOLATIL	E COMPO	UNDS (con	(inued)											
22V. Methylene Chloride (75-09-2)			X	<1.67	2e-03	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
30V, Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<5e-04	(G)				1	uġ/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<7e-03	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.00	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
7A, 4-Nitrophenol (100-02-7)			X	<3.00	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)	. 1		X	<3.00	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X				3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	u/)
1. POLLUTANT AND	a.	b,	C.	a. MAXIMUM DA		b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava					a. LONG T AVERAGE V	ERM	
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NE	EUTRAL CO	MPOUND												
1B. Acenaphthene (83-32-9)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
2B, Acenaphtylene (208-96-8)			X	<0.30	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
4B, Benzidine (92-87-5)			X	<3.90	<5e-03	(G)				1	ug/L	lbs	NA	NA	NA
5B, Benzo (a) Anthracene (56-55-3)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			×	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.30	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			×	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
10B, Bis (2-Chloro- ethoxy) Methane (111-91-1)			×	<3.0	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-(`hloro- ethyl') Ether (111-44-4)			X	<3.0	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.0	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	Na
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.410	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.0	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
20B, 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
21B, 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	n .				FFLUENT				4. UN	ITS		AKE (optiona	al)
1. POLLUTANT AND	a.	b.	C.	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ave		d. NO. OF	a. CONCEN-		a, LONG T AVERAGE \		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	N - BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
24B, Diethyl Phthalate (84-66-2)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
25B, Dimethyl Phthalate (131 -11-3)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	Na
26B, Di-N-Butyl Phthalate (84-74-2)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
28B. 2,6-Dinitro- toluene (606-20-2)			X	<3.00	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<4e-03	(G)		740		1	ug/L	lbs	NA	NA	NA
31B, Fluoranthene (206-44-0)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
34B, Hexachloro- butadiene (87-68-3)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
35B, Hexachloro- cyclopentadiene (77-47-4)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.50	<5e-03	(G)				1	ug/L	lbs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.300	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
40B, Nitrobenzene (98-95-3)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
42B, N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA

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		2, MARK "X				3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND CAS NUMBER	a,	b,	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		d. NO. OF	a. CONCEN-		a, LONG T AVERAGE V		
(if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – BASE/NI	EUTRAL CO	OMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<4e-03	(G, M)				1	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.300	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	N - PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
2P. α-BHC (319-84-6)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.007	<1e-05	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.081	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
13P, Endosulfan Sulfate (1031-07-8)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

NM0890010515

03A048

CONTINUED FRO								03A				UTO.	T S INT	NET (n
1. POLLUTANT AND	a	2. MARK "X	" C.	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 30		c. LONG TERM VALUE (if ave			4. UN	IIS	a. LONG T AVERAGE \		
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATI	ON (2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	nued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0354	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0354	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0354	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0354	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0354	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0354	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0354	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.158	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A048

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and
D	Value provided was estimated by the analytical laboratory.
E	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
F	Preparation or preservation holding time was exceeded and the value provided has been estimated by the laboratory.
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided is the MDL.
Н	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region 6 approved MQL. The value provided is the MDL.
1	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
M	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is measured as diphenylamine).
N	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or marked as "believed present" in the previous permit application submitted in 2012.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

Please print or type in the unshaded areas only

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

FORM

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

NPDES I. OUTFALL LOCATION

A. OUTFALL NUMBER	E	3. LATITUDE		C.	LONGITUDE		
(list)	1. DEG.	2, MIN.	3, SEC.	_ 1. DEG.	2. MIN.	3, SEC.	D. RECEIVING WATER (name)
3A113	35.00	52.00	3.00	106.00	15.00	43.00	Ephemeral Reach of Sandia Canyon
)3A113							Water Quality Segment 20.6.4.128 NMAG
			1/4				

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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

1. OUT-	2, OPERATION(S) CONT	TRIBUTING FLOW	3, TREATME	NT	
FALL NO. (list)		b. AVERAGE FLOW (include units)	a, DESCRIPTION	b. LIST COI TABLE	DES FROM 2C-1
03A113	TA-53-592 Cooling Tower	1,576 GPD	Disinfection (other)	2	Н
	- Treated Cooling Tower Blowdown		Dechlorination	2	E
		()	Reduction	2	L
03A113	Storm Water	16,763 GPD	NA	NA	NA

OFFICIAL USE ONLY (effluent guidelines sub-categories)

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PAGE 1 of 4

لــــــ	YES (complete	J	0 /				NO (go to Sec	1		151000		
							EQUENCY			4. FLOW	VOLUME	_
		2. OPE	ERATION(s)			AYS PER WEEK	b. MONTHS	a, FLOW RA	TE (in mgd)		vith units)	
1. OUTFALL NUMBER (list)			BUTING FLOW (list)	!		(specify werage)	PER YEAR (specify average)	1, LONG TERM AVERAGE	2, MAXIMUM DAILY	1, LONG TERM AVERAGE	2. MAXIMUN DAILY	C. DURATIOI (in days)
)3A113	TA-53-592 - Trea		Tower ling Tower	Blowd	down 7.0)	12.0	0.001576 MGD	0.01459 MGD	1,576 GALLONS	14,590 GALLONS	365
	Oh Waha						1	0.035050	0.12670	16 767	126 670	10
	Storm Wate	r			0.9)	1.6	0.016763 MGD	0.13678 MGD	16,763 GALLONS	136,678 GALLONS	49
II. PRODUCTI	ON											I.
		limitation i	promulgated	hv FPA	under Sectio	n 304 of	the Clean Wate	r Act apply to yo	ur facility?			
	YES (complete			D , L ,	undu		NO (go to Se		ar radinty.			
B, Are the limit	-			ine expr	ressed in tern		duction (or other		eration)?			
C. If you anew	YES (complete			ity which	h represents		NO (go to Se		production ex	roressed in the	terms and u	nits used in the
applicable e	effluent guidelin	ie, and inc	dicate the affe	ected ou	itfalls.	ari actua	ar measurement	or your level or	production, ex	pressed in the	terms and di	into used in the
			1. AV	ERAGE	DAILY PROI			. MATERIAL F			FECTED OU	
a, QUANTITY	Y PER DAY	b, UNITS	OF MEASU	RE	С. (DPERAT	ION, PRODUCT (specify)	IC.	(list outfall num	bers)	
NA	N.	A		N	IA					NA		
									19			
IV. IMPROVEN	MENTS											
		any Fed	leral, State of	or local	authority to	meet an	y implementatio	n schedule for	the construction	on, upgrading	or operations	of wastewate
treatment e	equipment or pr	actices or	any other er	nvironme	ental program	s which	may affect the d	lischarges descr	ibed in this ap	olication? This	includes, but	s not limited to
	YES (complet			O GC O	Chiorodinon	compila	NO (go to It		, dourt ordere,	and gront or to	an 55 rainone	
1. IDENTIFICA	ATION OF COM	NDITION,	2. AF	FECTED	OUTFALLS		3 BDIE	F DESCRIPTIO	N OF PROJEC	т 4.	FINAL COM	PLIANCE DAT
AGR	EEMENT, ETC		a, NO,	b. SOU	RCE OF DISCH	IARGE	J. DIVIL	DESCRIPTION	1 OF PROJEC	_	REQUIRED	b. PROJECTE
NA			NA	NA			NA			NA		NA
											1	
					21							
							vater pollution c					
	s) you now have						ch program is no					
Constructio	_	DESCRI	PTION OF A	DOITION	NAL CONTRO	DL PROC	GRAMS IS ATTA	ACHED				
FDA F 25	= 510-2C (8-90)					DACE	E 2 of 4				CONTINU	JE ON PAGE

EPA I.D. NUMBER (copy from Item 1 of Form 1)

CONTINUED FROM PAGE 2

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A, B, & C: See instructions before proces	eding – Complete one set of tables for each /-C are included on separate sheets numbe	outfall – Annotate the outfall number in the s	pace provided.
D. Use the space below to list any of the	pollutants listed in Table 2c-3 of the instructulation by being pollutants listed in Table 2c-3 of the instructulation by being pollutants.	tions, which you know or have reason to be	elieve is discharged or may be discharged data in your possession.
1. POLLUTANT	2, SOURCE	1. POLLUTANT	2. SOURCE
NA	NA	NA	NA
VI. POTENTIAL DISCHARGES NOT COV	EDED BY ANALYSIS		
	nce or a component of a substance which yo	ou currently use or manufacture as an intern	nediate or final product or byproduct?
YES (list all such pollutants	below)	NO (go to Item VI-B)	N ONLY
NA			
	6		

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

III. BIOLOGICAL TOXICITY TESTING DATA to you have any knowledge or reason to belied elation to your discharge within the last 3 year	eve that any biological test for acute or chronic toxicity	has been made on any of your dis	scharges or on a receiving water in
YES (identify the test(s) and des	cribe their purposes below)	NO (go to Section VIII)	*
NA			
/III. CONTRACT ANALYSIS INFORMATION	THE THE PERSON A SECOND		
Vere any of the analyses reported in Item V	performed by a contract laboratory or consulting firm?		
YES (list the name, address, an each such laboratory or fir	d telephone number of, and pollutants analyzed by, m below)	NO (go to Section IX)	
A. NAME	B, ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843)556-8171	VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910)795-0421	Dioxins and Furans
New Mexico Water Testing Laboratory Inc.	401 North Coronado Ave, Espanola, NM 87532	(505) 929-4545	E-Coli
IX. CERTIFICATION			
I certify under penalty of law that this docum	nent and all attachments were prepared under my dire valuate the information submitted. Based on my inqui	ry of the person or persons who	manage the system or those persons
directly responsible for gathering the informare significant penalties for submitting false	nation, the information submitted is, to the best of my ki information, including the possibility of fine and imprison I -	onment for knowing violations.	o, and complete it am and the the the
directly responsible for gathering the informare significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print)	information, including the possibility of fine and imprison	onment for knowing violations. 3. PHONE NO. (area code & no.)	5, and compact. The control of the c
directly responsible for gathering the informare significant penalties for submitting false	information, including the possibility of fine and imprison E aboratory Director ESHQSS	onment for knowing violations.	5, 3.10 compact. Carrotte that the

VII. BIOLOGICAL TOXICITY TESTING DATA			
	leve that any biological test for acute or chronic toxic	city has been made on any of your	discharges or on a receiving water in
relation to your discharge within the last 3 year		NO (t- St 1/11)	
YES (identify the test(s) and des	scribe their purposes below)	NO (go to Section VIII)	
EXTR	A PAGE FOR SIG	SNATURE O	NLY
*			
VIII. CONTRACT ANALYSIS INFORMATION			
Were any of the analyses reported in Item V	performed by a contract laboratory or consulting firm	1?	
YES (list the name, address, and each such laboratory or fire	d telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
		C. TELEPHONE	D. POLLUTANTS ANALYZED
A. NAME	B. ADDRESS	(area code & no.)	(list)
IX. CERTIFICATION			PART TO THE PART OF THE PART O
I certify under penalty of law that this docume qualified personnel properly gather and eva directly responsible for gathering the informa	ent and all attachments were prepared under my di uluate the information submitted. Based on my inq ution, the information submitted is, to the best of my information, including the possibility of fine and impr	uiry of the person or persons who knowledge and belief, true, accura	manage the system or those persons
William S. Goodrum, Manager Lo	os Alamos Field Office	(505) 667-5105	
C. SIGNATURE Wood		D. DATE SIGNED 3-25-19	

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 03A113

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				2. EFFLU	ENT			3. UNITS (specify if blank)			4. INTAKE (optional)	
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AVF (if available		1 NO 05	- 000050		a, LONG T AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a: CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	1.53	0.186	(D)				1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	37.1	4.52					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	2.55	0.31					1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	5.68	0.692	5.68	0.167	1.80	2.36e-2	16	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	<0.017	<2.1e-3	(E)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.01459	(A)	VALUE 0.0035	(A)	VALUE 0.001576	(A)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 16.3	(B)	VALUE 14.9	(B)	VALUE 13.4 (E	3)	12	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 26.0	(B)	VALUE 23.8	(B)	VALUE 21.8 (E	3)	13	°C		VALUE NA		NA
i. pH	MINIMUM 6.7 (C)	MAXIMUM 8.7 (C)	MINIMUM 6.8 (C)	MAXIMUM 8.5 (C)			196	STANDARD	UNITS			- P. W.

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	2. MAI	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INTA	AKE (option	al)
1. POLLUTANT AND	a,	b,	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERM AV (if availal					a. LONG TERM A VALUE		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION		b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		0.589	7.2e-02					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0 (0)	0.0	0.0 (0)	0.0	0.0 (0)	0.0	201	mg/L	lbs	NA	NA	NA
c, Color	X		<5	NA	(E,N)				1	PCU	NA	NA	NA	NA
d. Fecal Coliform		X	<1	NA	(E,K)				1	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.84	1.0e-01					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		0.779	9.5e-02					1	mg/L	lbs	NA	NA	NA

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Los Alamos nal Laboratory
EPA ID No. Na. 390010515
ITEM V-B CONTINUED FROM FRONT

	2. MAI	RK "X"				EFFLUENT				4. UNI	TS	5, INT/	AKE (option	<i>al</i>)
1. POLLUTANT AND CAS NO.	a.	b.	a, MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A (if availa		4 NO OF	- CONCEN		a. LONG TE AVERAGE V		L NO OF
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (<i>as</i> N)	X		0.249	3.0e-02					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.44	NA	(E)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		0.302	3.7e-02	0.302	8.89e-3	0.122	1.61e-3	16	mg/L	lbs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total	X		2.95	NA					1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		6.66	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.0833	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<-0.0737	NA	(E)				1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₄) (14808-79-8)	×		220	26.8					1	mg/L	lbs	NA	NA	NA
L Sulfide (as S)		X	<0.033	<4e-03	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		74.7	9.1	(0)				1	mg/L	lbs	NA	NA	NA
n, Surfactants		X	<0.017	<2.1e-3	(E)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	X		<19.30	<2.4e-3	(H,N)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		60.3	7.3e-03	(I)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		49.3	6.0e-03	(I)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		<33	<4.0e-3	(E,N)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		7680	0.935					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		2.02	2.5e-04					1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		2.4	2.9e-04	(D)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<1.2e-4	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<2.4e-4	(E,N)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

NM0 8 9 0 0 1 0 5 1 5 0 3 A 1 1 3

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

		2. MARK "X	ıı .			3. E	FFLUENT				4, UN	ITS	5. INTA	KE (option	ıl)
1. POLLUTANT AND	a,	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERN VALUE (if ava					a. LONG TI AVERAGE V		l uo or
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
METALS, CYANID	E, AND TO	AL PHENC	LS												
1M. Antimony, Total (7440-36-0)			X	<1	<1e-04	(G)				1	ug/L	lbs	AN	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<2e-04	(H,N)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		7.87	1e-03	(D,I)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		10.4	1e-03					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)		X		0.518	6e-05	(D)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)		X		<0.067	<8e-06	(H,N)	12			1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<7e-05	(H,N)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)			X	<2	<2e-04	(G)		19		1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)		v	X	<0.3	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<7e-05	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		<3.3	<4e-04	(G,N)				1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols, Total		X		6.31	8e-04					1	ug/L	lbs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-C1-6)				DESCRIBE RESU		pg/L was less tha	an the MDL.	The MDL used wa	s greater	than the EP	A MQL of 10 p	g/L.			

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		2. MARK "X	и				FFLUENT				4. UN	ITS	5. INTA	KE (optiona	·l)
1, POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERM VALUE (if ava					a, LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – VOLATIL	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(٦)									
5V. Bromoform (75-25-2)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
7V, Chlorobenzene (108-90-7)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(٦)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<4e-05	(G,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	н				FFLUENT				4. UN	ITS		AKE (optiona	(1)
1. POLLUTANT AND	a.	b.	C.	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if av		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE \		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE:
GC/MS FRACTION	N – VOLATIL	E COMPO	UNDS (con	(inued)											
22V. Methylene Chloride (75-09-2)		X		<1.67	<2e-04	(G, N)				1	ug/L	lbs	NA	NA	NA
23V, 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)	17					(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS													
1A, 2-Chlorophenol (95-57-8)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.21	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
6A, 2-Nitrophenol (88-75-5)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
11A: 2,4,6-Trichloro- phenol (88-05-2)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUED FRO		2. MARK "X	и			2 5	FFLUENT				4. UN	ITS	5 INTA	KE (optiona	1/)
1. POLLUTANT AND						b. MAXIMUM 30 I	DAY VALUE	c. LONG TERM			4. UN	113	a. LONG TI	ERM	1)
CAS NUMBER (if available)	a. TESTING REQUIRED	b, BELIEVED PRESENT			ľ	(if availab		(1)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	AVERAGE V		b. NO. OF
GC/MS FRACTION				CONCENTRATION S	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	THURETOES	HOTHOR	D. 140 CO	CONCENTRATION	(2) MASS	MINETOL
1B, Acenaphthene (83-32-9)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	Na
4B. Benzidine (92-87-5)			X	<4.06	<5e-04	(G)				11	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			×	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.313	<4e-5	(G)	A			1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.13	<4e-04	(G)			-	1	ug/L	lbs	NA	NA	NA
12B, Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
14B, 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
16B, 2-Chloro- naphthalene (91-58-7)		59.5	X	<0.427	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.13	<4e-04	(E)		Pass		1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA .
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	The state of the s			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if avo		1 110 05	20110511		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – BASE/N	EUTRAL C	OMPOUND	S (continued)	W.	77									
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
26B, Di-N-Butyl Phthalate (84-74-2)			X	<0.313	<4e-05	(G)		-		1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
28B. 2,6-Dinitro- toluene (606-20-2)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.13	4e-04	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)	27		X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			\times	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.13	<4e-04	(G)		7		1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.65	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
40B, Nitrobenzene (98-95-3)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			\times	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA

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Los Alamos nal Laboratory
EPA ID No. New 890010515
CONTINUED FROM THE FRONT

		2. MARK "X	n				FFLUENT				4. UN	ITS	5, INTA	KE (optiona	ıl)
1. POLLUTANT AND	a.	b,	C,	a MAXIMUM DA		b. MAXIMUM 30 I (if availa		c. LONG TERM VALUE (if ava		1 110 05	- 001051		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO, OF ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S (continued)											
43B, N-Nitro- sodiphenylamine (86-30-6)			X	<3.13	<4e-04	(G,M)				1	ug/L	lbs	NA	NA	NA
44B, Phenanthrene (85-01-8)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.13	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	Na	NA	NA
2P, α-BHC (319-84-6)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
4P, γ-BHC (58-89-9)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.0068	<8e-07	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.0781	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
10P., Dieldrin (60-57-1)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA

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Los Alamos National Laboratory EPA ID No. NM0890010515

EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

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NM0890010515

03A113

	1	2. MARK "X	11			3. E	FFLUENT				4. UN	IITS	5. INTA	KE (optione	al)
1, POLLUTANT AND	a.	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c, LONG TERM VALUE (if ave		, NO. 05	GONOEN		a. LONG T AVERAGE V		L NO 05
CAS NUMBER (if available)		BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO, OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)												(4)
17P. Heptachlor Epoxide (1024-57-3)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	Na	NA
19P. PCB-1254 (11097-69-1)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
24P, PCB-1016 (12674-11-2)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.153	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A113

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and September 2018.
D	Value provided was estimated by the analytical laboratory.
E	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
F	Preparation or preservation holding time was exceeded and the value provided has been estimated by the laboratory.
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided is the MDL.
Н	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region 6 approved MQL. The value provided is the MDL.
i .	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
М	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is measured as diphenylamine).
N	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or marked as "believed present" in the previous permit application submitted in 2012.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

A-UR-19-22215 15 of 15

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515 Form Approved.

OMB No. 2040-0086.

Approval expires 3-31-98.

2C SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

NPDES	Consolidated Permits Program

1, DEG. 2, WIN. 3, SEC. 1, DEG. 2, WIN. 3, SEC.		D. RECEIVING WATER (name)					C.		3. LATITUDE	E	A. OUTFALL NUMBER
		VING WATER (name)	D. RECEI		3, SEC,	2 MIN	1, DEG,	3. SEC.	2. MIN.	1. DEG.	(list)
Canyon Water Quality Segment	Mortanda	Tributary to	Canyon,	en Site	49.00	17.00	106.00	47.00	51.00	35.00	03A160
		lity Segment	ter Qual	anyon Wa							
20.6.4.128 NMAC			8 NMAC	0.6.4.12							

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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) CONTR	RIBUTING FLOW	3. TREATMEN	IT	
FALL NO. (list)		b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CO	DES FRON E 2C-1
03A160	National High Magnetic Field	2,567 GPD	Dechlorination	2	Е
	Laboratory (NHMFL) Cooling Towers				
	- Treated Cooling Tower Blowdown				
	4				
8					
5					

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90) PAGE 1 of 4 CONTINUE ON REVERSE

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

				the discharges	described in		3 intermittent or sea	asonal?			
<u>\</u>	YES (complete	the follow	ing table)				Section III)		,		
					a, DAYS PE	REQUENCY			4. FLOW B. TOTAL	VOLUME	'
1. OUTFALL			ERATION(s) BUTING FLOW		WEEK	b. MONTH PER YEA		ATE (in mgd)	(specify 1	rith units)	C. DURATION
NUMBER (list)		CONTRI	(list)		(specify average)	(specify avera		2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	(in days)
03A160	National Hi Laboratory				2	7	0.002567 MGD	0.00647 MGD	2,567 GALLONS	6,470 GALLONS	87
				r Blowdown			1				
	544.5 (2,000.000)										
									Ā	1	
						1	-				
						1					
III. PRODUCTION								Maydal			
A. Does an effl	uent guideline li YES (complete	Manager Level Control of		by EPA under S	ection 304 o	of the Clean W	ater Act apply to yo	ur facility?			
B. Are the limit				ne expressed in	n terms of pr		ther measure of ope	eration\?			
	YES (complete	Item III-(7)			NO (go to	Section IV)				
	ered "yes" to Ite				ents an acti	ual measurem	ent of your level of	production, ex	pressed in the	terms and un	its used in the
			1. AVI	RAGE DAILY					2. AF	FECTED OUT	FALLS
a. QUANTITY	PER DAY	b. UNITS	OF MEASUF	RE	c. OPERA	TION, PRODU (spec	JCT, MATERIAL, E	TC.		ist outfall numi	
NA	N.F	A		NA					NA		
											1
IV. IMPROVEN	MENTS				7.70						VI 1 5
							ation schedule for e discharges descr				
	ditions, administ	trative or	enforcement			ance schedule	letters, stipulations				
L	YES (complete	e the follow	wing table)			✓ NO (go t	o Item IV-B)				
	ATION OF CON EEMENT, ETC.		2. AFf	ECTED OUTF	ALLS	3. BF	RIEF DESCRIPTION	N OF PROJEC	T 4.	FINAL COMP	LIANCE DATE
			a, NO,	b, SOURCE OF I	DISCHARGE					REQUIRED	b, PROJECTED
AN			NA	NA		NA			NA	1	ΙA
										- 25	
B OPTIONAL	: Voll may att	ach addi	tional shoots	describing an	/ additional	water pollution	n control programs	(or other en	ironmental pro	iects which n	nav affect vov
	s) you now have						now underway or I				

EPA Form 3510-2C (8-90) PAGE 2 of 4 CONTINUE ON PAGE 3

MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (copy from Item 1 of Form 1)

CONTINUED FROM PAGE 2

NM0890010515

V. INTAKE AND EFFLUENT CHARACTE			
NOTE: Tables V-A, V-B, and V	/-C are included on separate sheets numbe		
D. Use the space below to list any of the from any outfall. For every pollutant you	pollutants listed in Table 2c-3 of the instructure u list, briefly describe the reasons you belie	ctions, which you know or have reason to be ve it to be present and report any analytical o	elieve is discharged or may be discharged data in your possession.
1, POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NA	NA	NA	NA
1			
	ı		
	ľ		
VI. POTENTIAL DISCHARGES NOT COV	ERED BY ANALYSIS		
	nce or a component of a substance which y	ou currently use or manufacture as an interm	nediate or final product or byproduct?
YES (list all such pollutants	below)	NO (go to Item VI-B)	
NA			
ľ			
2			1

EPA Form 3510-2C (8-90) PAGE 3 of 4 CONTINUE ON REVERSE

VII. BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to beli- relation to your discharge within the last 3 year	eve that any biological test for acute or chronic toxicity	has been made on any of your dis-	charges or on a receiving water in
YES (identify the test(s) and des		NO (go to Section VIII)	,
	enter purposes seron;	(En to predion 1111)	
NA			ì
			1
			JI.
			1
WILL GOVERNOT ANALYSIS INFORMATION			
VIII. CONTRACT ANALYSIS INFORMATION			
Were any of the analyses reported in Item V	performed by a contract laboratory or consulting firm?		
	d telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory or fir	m below)		
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843) 556-8171	Biological Oxygen Demand,
dbn haboratories bhe	2040 Bavage Road, Charleston Sc 25407	(043/330 01/1	General Chemistry,
			Pesticides, Polychlorinated Biphenyls, Radiochemistry,
		Ab i	Semi-Volatile Organic Compounds, Total Metals,
			Total Suspended Solids,
			Volatile Organic Compounds
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910)795-0421	Dioxins
	Wilmington NC 28405		
New Mexico Water Testing	401 North Coronado Ave, Espanola, NM	(505) 929-4545	E-Coli
Laboratory Inc.	87532		
SWRI Southwest Research Institute	Division 01 6220 Culebra Rd San Antonio TX7838	(210) 522-3867	Arsenic, Selenium
Institute	San Anconio 1X/836		
IX. CERTIFICATION			
	ment and all attachments were prepared under my directions and all attachments were prepared under my directions.		
directly responsible for gathering the inform	valuate the information submitted. Based on my inquation, the information submitted is, to the best of my	knowledge and belief, true, accurate	e, and complete. I am aware that there
are significant penalties for submitting false	information, including the possibility of fine and impris	sonment for knowing violations.	
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO. (area code & no.)	
Michael W. Hazen, Associate I	Laboratory Director ESHQSS	(505) 667-4218	
C. SIGNATURE		D. DATE SIGNED	
. 10.			
Coman	- ton	3-20-19	
EPA Form 3510-2C (8-90)	PAGE 4 of 4		

March 2016 CONTINUED FROM THE FRONT VII. BIOLOGICAL TOXICITY TESTING DATA Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years? YES (identify the test(s) and describe their purposes below) NO (go to Section VIII) EXTRA PAGE FOR SIGNATURE ONLY VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? NO (go to Section $I\lambda$) YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED A. NAME B. ADDRESS (area code & no.) (list) IX. CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. B. PHONE NO. (area code & no.) A. NAME & OFFICIAL TITLE (type or print) William S. Gogdrum, Manager Los Alamos Field Office (505) 667-5105 SIGNATURE

EPA Form 3510-2C (8-90)

PAGE 4 of 4

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
NM0890010515

V, INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 03A160

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				ENT			3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AVF		d. NO. OF	a. CONCEN-		a. LONG 1 AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	<1.0	<0.054	(D, F)				1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	7.3	0.394	(D,E)				1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	1.16	0.0626	(D)				1	mg/L	lbs	NA	NA	NA
d, Total Suspended Solids (TSS)	1.4	0.0756	1.4	0.0467	1.1	0.0236	14	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.0285	0.00154	(D, F)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.0065	(A)	VALUE 0.004	(A)	VALUE 0.0026 (A)	87	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 20.4	(B)	VALUE 18.5	(B)	VALUE 16.9 (B	1)	11	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 25.3	(B)	VALUE 23.9	(B)	VALUE 23.4 (B)	11	°C		VALUE NA		NA
i. pH	MINIMUM 7 (C)	MAXIMUM 8.8 (C)	MINIMUM 7.6(C)	MAXIMUM 8.7(C)			182	STANDARD	UNITS			

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (If available)	2. MA	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INTAKE (optional)				
	a,	b.,	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG, VALUE (if available)					a. LONG TERM AVERAGE VALUE				
	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION (2) MASS CONCENTRATION (2) MASS ANALYSES TRATION		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES						
a. Bromide (24959-67-9)	X		0.193	0.0104	(D,E)				1	mg/L	lbs	NA	NA	NA		
b. Chlorine, Total Residual	X		0 (N)	0	0 (N)	0	0 (N)	0	48	mg/L	lbs	NA	NA	NA		
c. Calor	X		5	NA	(D, G)				1	PCU	NA	NA	NA	NA		
d, Fecal Coliform		X	<1	NA	(D,F,K)				1	#/100mL	NA	NA	NA	NA		
e. Fluoride (16984-48-8)	X		1.19	0.0643	(D)				1	mg/L	lbs	NA	NA	NA		
f. Nitrate-Nitrite (as N)	X		4.51	0.244	(D)				1	mg/L	lbs	NA	NA	NA		

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NPDES-F2C-18-007-R0, Form 2

#fall 03A160

March 2016

Los Alamos al Laboratory EPA ID No. 1 90010515 ITEM V-B CONTINUED FROM FRONT

2. MARK "X"		RK "X"			3.	EFFLUENT				4, UNI	rs	5. INT/	AKE (optiona	al)					
1. POLLUTANT AND	a	b,	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A (if availa					a. LONG TE AVERAGE V							
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES					
g. Nitrogen, Total Organic (as N)	X		0.035	0.00189	(D, E, F)				1	mg/L	lbs	NA	NA	NA					
h: Oil and Grease	X		1.96	0.106	(D,E)				1	mg/L	lbs	NA	NA	NA					
i. Phosphorus (as P), Total (7723-14-0)	X		3.1	0.167	3.1	0.103	0.3249	0.00696	14	mg/L	lbs	NA	NA	NA					
j, Radioactivity																			
(1) Alpha, Total		X	<0.96	NA	(D,F)				1	pCi/L	NA	NA	NA	NA					
(2) Beta, Total	X		15.9	NA	(D)				1	pCi/L	NA	NA	NA	NA					
(3) Radium, Total	X		<0.379	NA	(D)				1	pCi/L	NA	NA	NA	NA					
(4) Radium 226, Total	X		1.03	NA	(D)				1	pCi/L	NA	NA	NA	NA					
k, Sulfate (as SO ₃) (14808-79-8)	X		29.9	1.61	(D)				1	mg/L	lbs	NA	NA	NA					
I. Sulfide (as S)		X	<0.03	<0.0016	(D,F)				1	mg/L	lbs	NA	NA	NA					
m. Sulfite (as SO ₃) (14265-45-3)	X		0.04	0.00216	(D)				1	mg/L	lbs	NA	NA	NA					
n. Surfactants	X		0.0495	0.00267	(D, E, G)				1	mg/L	lbs	NA	NA	NA					
o. Aluminum, Total (7429-90-5)		X	0	0	0	0	0	0	4	ug/L	lbs	NA	NA	NA					
p. Barium, Total (7440-39-3)	X		1.4	8E-05	(D)				1	ug/L	lbs	NA	NA	NA					
q. Boron, ⊤otal (7440-42-8)	X		216	0.0117	(D)				1	ug/L	lbs	NA	NA	NA					
r, Cobalt, Total (7440-48-4)		X	<1	<5e-05	(D,H)				1	ug/L	lbs	NA	NA	NA					
s. Iron, Total (7439-89-6)	X		45.2	0.00244	(D)				1	ug/L	lbs	NA	NA	NA					
t, Magnesium, Total (7439-95-4)	X		5810	0.314	(D)				1	ug/L	lbs	NA	NA	NA					
u. Molybdenum, Total (7439-98-7)	X		15.5	8e-04	(D)				1	ug/L	lbs	NA	NA	NA					
v. Manganese, Total (7439-96-5)		X	<2	<1e-04	(D,F)				1	ug/L	lbs	NA -	NA	NA					
w. Tin, Total (7440-31-5)		X	<2.5	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA					
x. Titanium, Total (7440-32-6)		X	<1	<5e-05	(D,F)				1	ug/L	lbs	NA	NA	NA					

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EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

NM0890010515 03A160

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

	2	2. MARK "X	n			3. E	FFLUENT	4. UN	ITS	5. INTA	AKE (optiona	al)			
1, POLLUTANT AND	a	b,	C,	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 (if availa		VALUE (if available)					a. LONG T AVERAGE \		b. NO. OF
CAS NUMBER (if available)		BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
METALS, CYANIDI	E, AND TOT	TAL PHENC	DLS												
1M. Antimony, Total (7440-36-0)			X	<3.5	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		2.59	0.0001	2.59	0.0863	2.25	0.048	4	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<1	<5e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		30.4	0.0016	(D)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		7.48	0.0004	3.82	0.127	1.2	0.025	306	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)		X		1.52	8e-05	(D)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)			X	<0.66	<4e-06	(D,I)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		1.35	7e-05	(D)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		72.3	0.0039	(D)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.45	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		4.4	2e-04	(D)				1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)		X		21.8	1e-03	3.35	0.112	0.6366	0.014	46	ug/L	lbs	NA	NA	NA
15M. Phenols, Total		X		5	3e-04	(D,E)				1	ug/L	lbs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			X	DESCRIBE RESU	ILTS The re	sult of 10.6 pg/	was less t	than the MDL. Ho	owever, the	e MDL was gr	eater than th	e MQL of 10) pg/L. {D,I}		

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CONTINUED FRO		2. MARK "X	я			3. E	FFLUENT				4. UN	ITS	5. INTAKE (optional)					
1. POLLUTANT AND	a.	b,	C.	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM VALUE (if ava		1 NO OF	20110511		a. LONG TERM AVERAGE VALUE		b. NO. OF			
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES			
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS												u.			
1V. Accrolein (107-02-8)			X	<1.25	<7e-05	(D,H)				11	ug/L	lbs	NA	NA	NA			
2V. Acrylonitrile (107-13-1)			X	<1.0	<5e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
3V. Benzene (71-43-2)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
4V. Bis (Chloro- methyl) Ether (542-88-1)						(L)												
5V. Bromoform (75-25-2)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
6V. Carbon Tetrachloride (56-23-5)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
7V. Chlorobenzene (108-90-7)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
8V. Chlorodi- bromomethane (124-48-1)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
9V. Chloroethane (75-00-3)			X	<0.3	<2e-05	(D, F)				1	ug/L	lbs	NA	NA	NA			
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.5	<8e-05	(D,F)				1	ug/L	lbs	NA	NA	NA			
11V. Chloraform (67-66-3)			X	<0.25	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA			
12V_ Dichloro- bromomethane (75-27-4)			X	<0.25	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA			
13V. Dichloro- difluoromethane (75-71-8)						(J)												
14V, 1,1-Dichloro- ethane (75-34-3)			X	<0.3	<2e-05	(D, F)				1	ug/L	lbs	NA	NA	NA			
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
16V, 1,1-Dichloro- ethylene (75-35-4)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
17V, 1,2-Dichloro- propane (78-87-5)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.25	<1e-05	(D,H,L)				1	ug/L	lbs	NA	NA	NA			
19V. Ethylbenzene (100-41-4)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
20V. Methyl Bromide (74-83-9)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA			
21V. Methyl Chloride (74-87-3)			X	<0.3	<2e-05	(D, F)				1	ug/L	lbs	NA	NA	NA			

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	VITAGE V	2. MARK "X	"			3, E	FFLUENT				4. UN	ITS	5. INTA	AKE (option	al)
1. POLLUTANT AND	a.	b	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERN VALUE (if ave					a. LONG T AVERAGE V		
CAS NUMBER (ıf available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b, MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- VOLATII	LE COMPO	UNDS (con	inued)											<i>(</i>
22V. Methylene Chloride (75-09-2)			X	<3	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.325	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.25	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.5	<3e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS								'					
1A. 2-Chlorophenol (95-57-8)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
4A, 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.0	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.0	<3e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
6A, 2-Nitrophenol (88-75-5)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
7A, 4-Nitrophenol (100-02-7)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
8A, P-Chloro-M- Cresol (59-50-7)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)		X		8.41	5e-04	(D,E)				1	ug/L	lbs	NA	NA	NA
11A, 2,4,6-Trichloro- phenol (88-05-2)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA

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ıtfall 03A160

March 2016

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nal Laboratory

CONTINUED FROM THE FRONT

		2, MARK "X	n			3. E	FFLUENT				4. UN	ITS	5, INTA	KE (optiona	1)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava			20110511		a. LONG TE AVERAGE V		
CAS NUMBER (if available)		PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NI	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.31	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.2	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
48: Benzidine (92-87-5)			X	<3.0	<2e-04	(D,E,H)				1	ug/L	lbs	NA	NA	NA
5B, Benzo (a) Anthracene (56-55-3)		X		<0.26	<1e-05	(D,E)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			×	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.2	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.0	<2e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromopheny Phenyl Ether (101-55-3)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
21B, 1,3-Di-chloro- benzene (541-73-1)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	u			3. E	FFLUENT				4. UN	ITS	5, INTA	KE (option	ul)
1. POLLUTANT AND	a.	b.	C	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if avo					a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B. 1,4-Dichlcro- benzene (106-46-7)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)		X		67.4	<4e-03	(D)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
26B, Di-N-Butyl Phthalate (84-74-2)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<3.0	<2e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.0	<2e-04	(D,E,H)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
38B. Isophorore (78-59-1)			X	<3.0	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	<0.3	<2e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.0	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
41B, N-Nitro- sodimethylamine (62-75-9)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
42B, N-Nitrosodi- N-Propylamine (621-64-7)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON REVERSE

	VITHE PRO	2. MARK "X	n			3, E	FFLUENT				4. UN	ITS	5, INTA	KE (optiona	1)
1. POLLUTANT AND CAS NUMBER	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c, LONG TERM VALUE (if ava		1 110 05	0010511		a. LONG TI AVERAGE V		
(if available)	TESTING REQUIRED	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – BASE/N	EUTRAL CO	OMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<2e-04	(D,K,M)				1	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.2	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
45B, Pyrene (129-00-0)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	N - PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
2P. α-BHC (319-84-6)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.00707	<4e-07	(D,F)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
7P, 4,4'-DDT (50-29-3)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
15P, Endrin Aldehyde (7421-93-4)			X	<0.00707	<4e-07	(D,H))		1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)		,	X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-8 **CONTINUE ON PAGE V-9** CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

NM0890010515

03A160

		2. MARK "X	33			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	ıl)
1. POLLUTANT AND	a	b,	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l		c. LONG TERM VALUE (if avo			00110511		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)					*1)							
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0358	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.16	<9e-06	(D,H)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A160

А	Calculated using data collected between June 2017 and May 2018.
0	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using
В	data collected between June 2017 and May 2018.
С	The pH values provided were determined using data collected between June 2017 and May 2018.
D	The analytical result provided is from the 2012 permit reapplication.
Е	Value provided was estimated by the analytical laboratory.
_	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved
Г	EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
C	Preparation or preservation holding time was exceeded and the value provided has been estimated by the
G	laboratory.
ш	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided
П	is the MDL.
1	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region
	6 approved MQL. The value provided is the MDL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-
	nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is
М	measured as diphenylamine).
N	Identified as a potential pollutant from one of the sources discharging to the outfall.

LA-UR-19-22215 15 of 15

EPA I,D, NUMBER (copy from Item 1 of Form 1)

NM0890010515

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

Please print or type in the unshaded areas only.

FORM

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I OITH	Control of the Contro
2C	ŞEPA
NPDES	1998 (S-1994 (S) 1/19

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 NUMBER		B. LATITUDE		C	LONGITUD	E	
(list)	1. DEG.	2, MIN,	3, SEC.	1, DEG.	2, MIN.	3. SEC.	D. RECEIVING WATER (name)
03A181	35.00	51.00	51.00	106.00	18.00	5.00	Effluent Canyon, Tributary of Mortandad
							Canyon, Water Quality Segment
							20.6.4.128 NMAC

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B, 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) CONT	TRIBUTING FLOW	3. TREATME	NT	
FALL NO. (list)	a. OPERATION (/is/)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COD TABLE	ES FROM 2C-1
03A181	TA-55-6 Cooling Towers	9365 GPD	Dechlorination	2	E
	- Treated Cooling Tower Blowdown		Disinfection (other)	2	Н
			Reduction	2	L
		*			
ĺ					

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

I	YES (compl	jonow	O -2()		1	NO (go to Sec			4 51 6111		
						REQUENCY			4. FLOW	VOLUME	
			ERATION(s)		a, DAYS PE WEEK	b. MONTHS	a. FLOW RA	TE (in mgd)		volume with units)	
1. OUTFALL NUMBER (list)			BUTING FLOW (list)		(specify average)	PER YEAR (specify average)	1. LONG TERM AVERAGE	2, MAXIMUM DAILY	1, LONG TERM AVERAGE	2, MAXIMUM DAILY	C. DURATION (in days)
33A181		Cooling T reated Co		r Blowdown	7.0	12.0	0.009 MGD	0.032 MGD	9,365 GALLONS	31,986 GALLONS	365
II. PRODUCTIO											
A. Does an effl	1	ne limitation lete Item III-l		by EPA under	Section 304 o	of the Clean Water NO (go to Se		ur facility?			
B. Are the limit	1	applicable e		ine expressed	in terms of pr	oduction (or other		eration)?			
	ered "yes" to	Item III-B,	list the quant	ity which repre	sents an actu	ual measurement		production, ex	pressed in the	terms and uni	ts used in th
аррисавле в	amuent guide	anie, and m		ERAGE DAILY	PRODUCTIO	ON			2.45	FECTED OUT	EALLS
a. QUANTITY	PER DAY	b. UNITS	OF MEASU	RE	c. OPERA	TION, PRODUCT (specify)	, MATERIAL, E	TC.		ist outfall numb	
IV. IMPROVEN	MENTS !										
A. Are you no	ow required					ny implementation may affect the d					
	ditions, admi		enforcement			NO (go to Ita	ters, stipulations				
1. IDENTIFICA		ONDITION,		ECTED OUTF	ALLS		F DESCRIPTION	N OF PROJEC	т 4.	FINAL COMP	LIANCE DAT
Aditi	LEWIEIT, E	10.	a, NO,	b. SOURCE OF	DISCHARGE				a.	REQUIRED	b, PROJECTE
NA			NA	NA		NA			NA	N	Α
discharges construction	s) you now ha	ave underwa	ay or which y	ou plan, Indicat	te whether ea	water pollution conch program is no	w underway or p				

EPA Form 3510-2C (8-90) PAGE 2 of 4 CONTINUE ON PAGE 3

EPA I.D. NUMBER (copy from Item 1 of Form 1)

CONTINUED FROM PAGE 2

NM0890010515

A, B, & C: See instructions before proceed	eding - Complete one set of tables for each	outfall – Annotate the outfall number in the s	space provided.
D. Use the space below to list any of the	V-C are included on separate sheets numbe pollutants listed in Table 2c-3 of the instruc	ctions, which you know or have reason to be	elieve is discharged or may be discharged
1. POLLUTANT	u list, briefly describe the reasons you believ 2, SOURCE	1. POLLUTANT	2, SOURCE
NA	NA	NA	NA
VI. POTENTIAL DISCHARGES NOT COV			
YES (list all such pollutants	nce or a component of a substance which you below)	ou currently use or manutacture as an intern NO (go to Item VI-B)	nediate or final product or byproduct?

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

relation to your discharge within the last 3 year		has been made on any of your dis	scharges or on a receiving water in
	ars?		scharges or on a receiving water in
YES (identify the test(s) and de	scribe their purposes below)	NO (go to Section VIII)	
NA.			
III. CONTRACT ANALYSIS INFORMATION		ATTICKT'S ATTIC	
Vere any of the analyses reported in Item V	performed by a contract laboratory or consulting firm?		
VES Hist the pame address a	nd telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory or fit		[NO (go to Section 1x)	
		C. TELEPHONE	D. POLLUTANTS ANALYZED
A. NAME	B. ADDRESS	(area code & no.)	(list)
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843)556-8171	VOC, SVOC, Pesticides,
			Metals, Radiochemistry,
			General Chemistry, BOD,
	1	I .	TSS
			TSS
ane Rear Analytical LLC	3306 Kitty Hawk Road, Suite 120	(910) 795-0421	
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910)795-0421	Dioxins and Furans
Cape Fear Analytical LLC		(910)795-0421	
Cape Fear Analytical LLC		(910)795-0421	
Jew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(910) 795-0421	
ew Mexico Water Testing	Wilmington NC 28405	4	Dioxins and Furans
Jew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
Jew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
ew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
Jew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
Jew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
Jew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
ew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
New Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
New Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
New Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
New Mexico Water Testing Laboratory Inc.	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	4	Dioxins and Furans
Jew Mexico Water Testing	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532	(505)929-4545	Dioxins and Furans E-Coli
New Mexico Water Testing Laboratory Inc. X. CERTIFICATION I certify under penalty of law that this docur	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(505) 929-4545	Dioxins and Furans E-Coli with a system designed to assure the
New Mexico Water Testing Laboratory Inc. X. CERTIFICATION I certify under penalty of law that this docur qualified personnel properly gather and even	ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquiration, the information submitted is, to the best of my known that the information submitted is to the best of my known that the information submitted is to the best of my known that the information submitted is to the best of my known that the information submitted is to the best of my known that the information submitted is to the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the information submitted is the best of my known that the best of my known the best of my known that the best of my known the best of my known that the best of my known that the best of my known the best of my known that the best of my known that the be	otion or supervision in accordance by of the person or persons who nowledge and belief, true, accurat	Dioxins and Furans E-Coli e with a system designed to assure the manage the system or those person
New Mexico Water Testing Laboratory Inc. X. CERTIFICATION I certify under penalty of law that this document of the content o	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquirect and all attachments were prepared under my direct valuate the information submitted.	otion or supervision in accordance by of the person or persons who nowledge and belief, true, accurat	Dioxins and Furans E-Coli with a system designed to assure the manage the system or those person
New Mexico Water Testing Laboratory Inc. X. CERTIFICATION I certify under penalty of law that this docur qualified personnel properly gather and ev directly responsible for gathering the inform are significant penalties for submitting false	ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquirect in the information submitted is, to the best of my known information, including the possibility of fine and imprison	otion or supervision in accordance by of the person or persons who nowledge and belief, true, accurat	Dioxins and Furans E-Coli with a system designed to assure the manage the system or those person
X. CERTIFICATION I certify under penalty of law that this docur qualified personnel properly gather and evidirectly responsible for gathering the informare significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print)	ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquirect information, including the possibility of fine and imprison.	ction or supervision in accordance y of the person or persons who nowledge and belief, true, accurat nament for knowing violations.	Dioxins and Furans E-Coli Ewith a system designed to assure the manage the system or those person
qualified personnel properly gather and ex- directly responsible for gathering the inform are significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print) Michael W. Hazen, Associate I	ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquirection, the information submitted is, to the best of my known information, including the possibility of fine and imprison. Based on my inquirection, including the possibility of fine and imprison.	ction or supervision in accordance by of the person or persons who cowledge and belief, true, accurate comment for knowing violations. PHONE NO. (area code & no.) (505) 667-4218	Dioxins and Furans E-Coli with a system designed to assure the manage the system or those person
X. CERTIFICATION I certify under penalty of law that this docur qualified personnel properly gather and evidirectly responsible for gathering the informare significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print) lichael W. Hazen, Associate I	ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquirect action, the information submitted is, to the best of my known information, including the possibility of fine and imprison. Baboratory Director ESHQSS	ction or supervision in accordance y of the person or persons who nowledge and belief, true, accurat nament for knowing violations.	Dioxins and Furans E-Coli Ewith a system designed to assure the manage the system or those person
X. CERTIFICATION I certify under penalty of law that this docur qualified personnel properly gather and evidirectly responsible for gathering the informare significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print)	ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquirect action, the information submitted is, to the best of my known information, including the possibility of fine and imprison. Baboratory Director ESHQSS	ction or supervision in accordance by of the person or persons who cowledge and belief, true, accurate comment for knowing violations. PHONE NO. (area code & no.) (505) 667-4218	Dioxins and Furans E-Coli e with a system designed to assure the manage the system or those person

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA			
relation to your discharge within the last 3 year	ieve that any biological test for acute or chronic toxic ars?	city has been made on any of your dis	scharges or on a receiving water in
YES (identify the test(s) and des		NO (go to Section VIII)	
EXTR	A PAGE FOR SIG	SNATURE OI	NLY
VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V p	performed by a contract laboratory or consulting firm	?	
YES (list the name, address, and each such laboratory or fire	d telephone number of, and pollutants analyzed by, m below)	NO (go to Section IX)	
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
IX. CERTIFICATION			
qualified personnel properly gather and eva directly responsible for gathering the informa	ent and all attachments were prepared under my dis aluate the information submitted. Based on my inq ation, the information submitted is, to the best of my information, including the possibility of fine and impri	uiry of the person or persons who i knowledge and belief, true, accurate	manage the system or those persons
William S. Goodrum, Manager Lo C. SIGNATURE	os Alamos Field Office	(505) 667-5105 D. DATE SIGNED	
1 Man 4		3-25-19	15

EPA Form 3510-2C (8-90)

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 03A181

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				2. EFFLU	ENT			3, UN (specify if			4. INTAKE (optional)	100
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AVE (if available		1 110 05	- CONCEN		a, LONG 1 AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOI)	<1.00	<2.7e-1	(E)				1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	38.7	10.3					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	3.69	0.985					1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	0.70	0.187	0.7	8.42e-2	0.700	5.47e-2	17	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.0268	7.15e-3	(D)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.0320	(A)	VALUE 0.0144	(A)	VALUE 0.0094	(A)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 19.9	(B)	VALUE 18.6	(B)	VALUE 18.3 (E	3)	3	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 23.9	(B)	VALUE 22.9	(B)	VALUE 22.2 (E	3)	3	°C		VALUE NA		NA
i. pH	MINIMUM 7 (C)	MAXIMUM 9 (C)	MINIMUM 7.1 (C)	MAXIMUM 8.8 (C)			48	STANDARI	UNITS	50 C		

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	2. MA	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INT	AKE (option	al)
1. POLLUTANT AND	a,	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERM AV (if avoilal					a. LONG TERM A VALUE		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		<0.067	<1.8e-2	(E)				1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		<0 (0)	< 0	0 (0)	0	0 (0)	0	210	mg/L	lbs	NA	NA	NA
c. Color		X	<5	NA	(F)				1	PCU	NA	NA	NA	NA
d, Fecal Coliform	X		1	NA	(K)				1	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.481	1.3e-1					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		1.42	3.8e-1					1	mg/L	lbs	NA	NA	NA

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CONTINUE ON REVERSE

EPA ID No. 390010515 ITEM V-B CONTINUED FROM FRONT

	2. MA	RK "X"			3.	EFFLUENT	16			4. UNI	TS	5. INT/	AKE (option	ıl)
1. POLLUTANT AND CAS NO.	a.	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A (if availa		1 NO OF	- CONCEN		a. LONG TE AVERAGE V		L NO 05
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d, NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.234	6.3e-2					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.41	<3.8e-1	(E)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		6 (0)	1.6	6.0 (0)	7.22e-1	3.146 (0)	2.46e-1	17	mg/L	lbs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total		X	<0.772	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		4.03	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.549	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<0.228	NA	(E)				1	pCi/L	NA	NA	NA	NA
k, Sulfate (as SO ₃) (14808-79-8)	X		69.3	18.5					1	mg/L	lbs	NA	NA	NA
1. Sulfide (as S)		X	<0.033	<9e-03	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		9.7	2.59	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants	X		0.0204	5.5e-3	(D,F)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	X		<19.3	<5.2e-3	(H,N)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		64.4	1.7e-2	(I)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		45	1.2e-2	(I)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.30	<8.0e-5	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)		X	<33.0	<8.8e-3	(E)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		8230	2.2					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		2.92	7.79e-4	(I)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)		X	<1	<2.7e-4	(E)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<2.7e-4	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<5.3e-4	(E,N)				1	ug/L	lbs	NA	NA	NA

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols, If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you believe is absent. When you believe is absent, you must provide the results of at least one analysis for that pollutant, you must provide the results of at least one analysis for that pollutant if you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for that pollutant or acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

	2	MARK "X	n .			3. E	FFLUENT				4. UN	ITS	5, INTA	KE (optiona	il)
1. POLLUTANT AND CAS NUMBER	a,	b,	C,	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		4 NO OF	a. CONCEN-		a. LONG TI AVERAGE V		b. NO. O
(if available)	REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
METALS, CYANIDI	E, AND TOT	AL PHENC	DLS												
1M. Antimony, Total (7440-36-0)			X	<1	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		2.55	6.8e-4	(D)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.20	<5e-5	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.30	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Fotal (7440-47-3)		X		12.5	3.3e-3	(I)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		3.24	8.7e-4					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total 7439-92-1)			X	<0.50	<1e-4	(G)				1	ug/L	lbs	NA	NA	NA
BM. Mercury, Total 7439-97-6)			X	<0.067	<2e-5	(H)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total 7440-02-0)		X		1.88	5e-4	(D)				1	ug/L	lbs	NA	NA	NA
IOM. Selenium, Total (7782-49-2)		X		<2	<5e-4	(G, N)				1	ug/L	lbs	NA	NA	NA
11M, Silver, Total 7440-22-4)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
2M. Thallium, Total (7440-28-0)			X	<0.600	<2e-4	(H)				1	ug/L	lbs	NA	NA	NA
3M. Zinc, Total 7440-66-6)			X	<3.30	<9e-4	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cyanide, otal (57-12-5)			X	<1.67	<4e-4	(G)				1	ug/L	lbs	NA	NA	NA
5M. Phenols, otal		X		<1.67	<4e-4	(E)				1	ug/L	lbs	NA	NA	NA
DIOXIN				- 11											

Dioxin (1764-01-6) EPA Form 3510-2C (8-90)

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		2. MARK "X	1)				FFLUENT				4. UN	ITS	5, INTA	KE (optiona	ıl)
1. POLLUTANT AND	a,	b,	C,	a. MAXIMUM DAI	LY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava					a. LONG TI AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	– VOLATII	E COMPO	UNDS								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
1V. Accrolein (107-02-8)			X	<1.67	<4e-4	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<4e-4	(G)				1	ug/L	lbs	NA	NA	NA
3V, Benzene (71-43-2)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(J)									
5V. Bromoform (75-25-2)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<4e-4	(E)				1.	ug/L	lbs	NA	NA	NA
11V. Chloraform (67-66-3)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
13V, Dichloro- difluoromethane (75-71-8)						(J)							1		
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
17V, 1,2-Dichloro- propane (78-87-5)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<9e-5	(G,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
21V, Methyl Chloride (74-87-3)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	u.				FFLUENT				4. UN	ITS		KE (optiona	ıl)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if avo		4 NO OF	a. CONCEN-		a, LONG T AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	I – VOLATII	E COMPO	UNDS (con	tinued)											
22V. Methylene Chloride (75-09-2)			X	<1.67	<4e-4	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<9e-5	(G)		,		1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS											*		
1A, 2-Chlorophenol (95-57-8)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<1e-3	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
8A, P-Chloro-M- Cresol (59-50-7)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
10A, Phenol (108-95-2)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
11A_ 2,4,6-Trichloro- phenol (88-05-2)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA

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	2	2. MARK "X	33			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	1/)
1. POLLUTANT AND CAS NUMBER	a,	b.	C,	a. MAXIMUM DA	LY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava		J NO 05	20110511		a. LONG T AVERAGE V		
(if available)	TESTING REQUIRED	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NE	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.90	<1e-3	(G)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
12B, Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
13B, Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
16B, 2-Chloro- naphthalene (91-58-7)			X	<0.410	<1e-4	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			×	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
21B, 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA

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	2	2. MARK "X	33			3, E	FFLUENT				4. UN	ITS	5. INTA	AKE (option	ul)
1. POLLUTANT AND	a,	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if av			00110511		a, LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF
GC/MS FRACTION	– BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (<i>as Azo-</i> <i>benzene</i>) (122-66-7)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
31B, Fluoranthene (206-44-0)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	ΝĀ	NA
36B Hexachloro- ethane (67-72-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.50	<9e-4	(G)				1	ug/L	lbs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUED FROM THE FRONT

		2. MARK "X	п			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	1)
1. POLLUTANT AND	a.	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c, LONG TERM VALUE (if ava			00110511		a, LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S (continued)											Alexander and a second
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.00	<8e-4	(G,M)				1	ug/L	lbs	NA	NA	NA
44B, Phenanthrene (85-01-8)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	N - PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	ŇΑ	NA	NA
2P. α-BHC (319-84-6)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.00672	<2e-6	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.0773	<2e-5	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	AN	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
11P ₋ α-Enosulfan (115-29-7)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.00672	<2e-6	(G)			1	1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON PAGE V-9

EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

CONTINUED FROM PAGE V-8

NM0890010515

03A181

		2. MARK "X	u			3. E	FFLUENT				4. UN	ITS	5. INTA	AKE (option	ıl)
1, POLLUTANT AND	a.	b,	C.	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availate		c. LONG TERM VALUE (if avo			20110511		a. LONG T AVERAGE V		. NO OF
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)							37					
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.152	<4e-5	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A181

Calculated using data collected between October 2017 and September 2018.
Summer (June, July, August) and Winter (December, January, February) temperatures were determined using
data collected between October 2017 and September 2018.
The pH values provided were determined using data collected between October 2014 and September 2018.
Value provided was estimated by the analytical laboratory.
The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved
EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
Preparation or preservation holding time was exceeded and the value provided has been estimated by the
laboratory.
The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided
is the MDL.
The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region
6 approved MQL. The value provided is the MDL.
The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
The E. Coli result is provided as an indicator for Fecal Coliform.
Result is for cis- and trans-1,3 dichloropropylene.
The result provided is for diphenylamine due to similar mass spectra and decomposition of N-
nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is
measured as diphenylamine).
The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in
the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or
marked as "believed present" in the previous permit application submitted in 2012.
Identified as a potential pollutant from one of the sources discharging to the outfall.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98,

Please print or type in the unshaded areas only.

FORM

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER S

2C NPDES	WEPA	EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATION Consolidated Permits Program
OUTFALL L	OCATION	
or each out	fall, list the latitude and long	gitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER		B, LATITUDE		C	, LONGITUD	E	
(list)	1, DEG,	2, MIN.	3, SEC,	1. DEG,	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
03A199	35.00	52.00	20.00	106.00	18.00	46.00	Ephemeral Tributary Sandia Canyon in
							Water Quality Segment 20.6.4.126 NMAC

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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) CON	TRIBUTING FLOW	3. TREATMEN	NT	
FALL NO. (list)		b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CO TABLE	DES FROM E 2C-1
03A199	Laboratory Data Communications	36,024 GPD	Dechlorination	2	E
	Center (LDCC)		Disinfection (other)	2	н
	- Treated Cooling Tower Blowdown		Reduction	2	L
			_		
:					
	USE ONLY (effluent guidelines sub-categorie				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90) PAGE 1 of 4 CONTINUE ON REVERSE

					3 FDI	EQUENCY			4. FLOW				
					a, DAYS PER	1				L VOLUME	T		
			ERATION(s)		WEEK	b. MONTHS	a, FLOW RA	TE (in mgd)		with units)			
1. OUTFALL NUMBER (/ist)		CONTRI	BUTING FLOW (list)	1	(specify average)	PER YEAR (specify average)	1. LONG TERM AVERAGE	2 MAXIMUM DAILY	1. LONG TERM AVERAGE	2 MAXIMUN DAILY	C. DURATIO (in days)		
3 A 199		y Data C	ommunicat:	ons Center	7	12	0.036	0.074	36,024	74,000	365		
	(LDCC) - Trea	ated Coo	ling Tower	Blowdown									
			_										
							-						
									-				
PRODUCTION													
. Does an effl	uent guideline YES (comple			by EPA under S		the Clean Water NO (go to See		ur facility?					
Are the limit			,	line expressed i		duction (or other		ration)?					
	YES (comple					NO (go to Se							
If you answ	ered "yes" to effluent guideli	Item III-B,	list the quan	tity which repres	sents an actua	al measurement	of your level of	production, ex	pressed in the	e terms and ur	its used in th		
applicable 6	eniueni guideii	ne, and inc		ERAGE DAILY	PRODUCTIO	N					-		
- OLIANTIDA	(DED DAY	L LIMITO				ION, PRODUCT	, MATERIAL, E	TC.		FFECTED OU (list outfall num			
a. QUANTITY	PERDAT	D. UNITS	OF MEASU	KE		(specify)							
A	ī	NA		NA				NA					
				1									
				40									
/. IMPROVEN			land Chata	- 4 '4				lee eesteed					
						y implementation may affect the di							
permit cond	7			orders, enforce	ment compliar	nce schedule lett		court orders,	and grant or lo	an conditions.			
	YES (comple	ete the follo	wing table)			✓ NO (go to Ite	em IV-B)						
		Service and the service of the servi	2. AF	ECTED OUTF	ALLS	3. BRIEF	DESCRIPTION	OF PROJEC	T 4	FINAL COMP	LIANCE DAT		
AGREEMENT, ETC.				b. SOURCE OF	DISCHARGE				а	REQUIRED	b. PROJECTE		
AOIN				NA		NA			NA	Α	NA		
			NA	****						- 1			
TA A			NA							- 1			
			NA										
			NA										
			NA										
			NA										
			NA										
			NA										
			NA										
А	L: You may a	ittach addi			/ additional w	rater pollution co	ontrol programs	(or other env	rironmental pr	ojects which r	nay affect v		
A B. OPTIONAL	s) you now have	ittach addi ve underwa	tional sheets	describing any	/ additional w e whether eac	ater pollution co h program is nov	ontrol programs w underway or p	(or other env lanned, and ir	ironmental prodicate your ac	ojects which r	nay affect y d schedules		

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

CONTINUED FROM PAGE 2

NM0890010515

D. Use the spa from any ou 1, NA VI. POTENTIAL Is any pollutant	DISCHARGES NOT CO	OVERED BY ANALYSIS stance or a component of a substance w		2. SOURCE NA
VI. POTENTIAL	DISCHARGES NOT Co	2. SOURCE NA OVERED BY ANALYSIS stance or a component of a substance w	1. POLLUTANT NA thich you currently use or manufacture as an	2. SOURCE NA
VI. POTENTIAL Is any pollutant	listed in Item V-C a subs	OVERED BY ANALYSIS stance or a component of a substance w	hich you currently use or manufacture as an	
ls any pollutant	listed in Item V-C a subs	stance or a component of a substance w	thich you currently use or manufacture as an	intermediate or final product or byproduct?
Is any pollutant	listed in Item V-C a subs	stance or a component of a substance w	hich you currently use or manufacture as an	intermediate or final product or byproduct?
Is any pollutant	listed in Item V-C a subs	stance or a component of a substance w	thich you currently use or manufacture as an	intermediate or final product or byproduct?
			Z NO (to (V/L D)	
		1831 /	V NO (go to Hem VI-B)	

o you have a elation to your	, ,		7 NO (
	YES (identify the test(s) and de	scribe their purposes below)	NO (go to Section VIII)	
A				
II. CONTRA	CT ANALYSIS INFORMATION			
ere any of th	ne analyses reported in Item V			
,		performed by a contract laboratory or consulting firm?		
		performed by a contract laboratory or consulting firm?	□ NO /	
V		nd telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
V	YES (list the name, address, ar	nd telephone number of, and pollutants analyzed by,	C. TELEPHONE	D. POLLUTANTS ANALYZED
	YES (list the name, address, ar each such laboratory or fin A. NAME	d telephone number of, and pollulants analyzed by, rm below) B. ADDRESS	C. TELEPHONE (area code & no.)	(list)
	YES (list the name, address, ar each such laboratory or fit	nd telephone number of, and pollutants analyzed by, rm below)	C. TELEPHONE	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry,
	YES (list the name, address, ar each such laboratory or fin A. NAME	d telephone number of, and pollulants analyzed by, rm below) B. ADDRESS	C. TELEPHONE (area code & no.)	(list) VOC, SVOC, Pesticides,
	YES (list the name, address, ar each such laboratory or fin A. NAME	d telephone number of, and pollulants analyzed by, rm below) B. ADDRESS	C. TELEPHONE (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD,
EL Labora	YES (list the name, address, ar each such laboratory or fin A. NAME	d telephone number of, and pollulants analyzed by, m below) B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120,	C. TELEPHONE (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD,
EL Labora	YES (list the name, address, are each such laboratory or fine A. NAME	B. ADDRESS 2040 Savage Road, Charleston SC 29407	C. TELEPHONE (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB
EL Labora	YES (list the name, address, are each such laboratory or fine A. NAME tories LLC	d telephone number of, and pollulants analyzed by, mm below) B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	C. TELEPHONE (area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB Dioxins and Furans
EL Labora	YES (list the name, address, are each such laboratory or fine A. NAME tories LLC Analytical LLC	d telephone number of, and pollulants analyzed by, m below) B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120,	C. TELEPHONE (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB
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Cape Fear	YES (list the name, address, are each such laboratory or find A. NAME tories LLC Analytical LLC Water Testing Inc.	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	C. TELEPHONE (area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB Dioxins and Furans
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Cape Fear Jew Mexico Jew Mexico Jew Mexico Jew Mexico	YES (list the name, address, are each such laboratory or find A. NAME tories LLC Analytical LLC Water Testing Inc.	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532	C. TELEPHONE (area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB Dioxins and Furans E-Coli
Cape Fear Jew Mexico Aboratory X. CERTIFIC I certify under qualified per directly responder	YES (list the name, address, are each such laboratory or find A. NAME tories LLC Analytical LLC Water Testing Inc. ATION or penalty of law that this documes onnel properly gather and even sonnel properly gather and even sible for gathering the inform	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquirect patient, the information submitted is, to the best of my king and the submitted is a set of my king and the submi	C. TELEPHONE (area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB Dioxins and Furans E-Coli with a system designed to assure the manage the system or those perso
EL Labora ape Fear lew Mexico aboratory X. CERTIFIC I certify unde qualified per directly responsare significar	YES (list the name, address, are each such laboratory or find A. NAME Tories LLC Water Testing Inc. ATION or penalty of law that this document properly gather and expensible for gathering the informat penalties for submitting false	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ment and all attachments were prepared under my direct valuate the information submitted. Based on my inquirect in the information submitted is, to the best of my kin information, including the possibility of fine and imprison.	C. TELEPHONE (area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 tion or supervision in accordance y of the person or persons who owledge and belief, true, accurate ment for knowing violations.	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB Dioxins and Furans E-Coli with a system designed to assure the manage the system or those perso
A. NAME & C	YES (list the name, address, are each such laboratory or find A. NAME Tories LLC Water Testing Inc. ATION ATIO	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ment and all attachments were prepared under my direct caluate the information submitted. Based on my inquirination, the information submitted is, to the best of my kninformation, including the possibility of fine and impriso	C. TELEPHONE (area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (505) 929-4545 tion or supervision in accordance y of the person or persons who owledge and belief, true, accurate noment for knowing violations. PHONE NO. (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB Dioxins and Furans E-Coli with a system designed to assure the manage the system or those perso
EL Labora Tape Fear Tew Mexico Tew Mexico Teaching and the second and the sec	YES (list the name, address, are each such laboratory or find A. NAME Tories LLC Analytical LLC Water Testing Inc. ATION For penalty of law that this documes on the property gather and even sible for gathering the information penalties for submitting false of the penalties	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ment and all attachments were prepared under my directivaluate the information submitted. Based on my inquirination, the information submitted is, to the best of my kn information, including the possibility of fine and imprisonation of the coronadory Director ESHQSS	C. TELEPHONE (area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 tion or supervision in accordance y of the person or persons who owledge and belief, true, accurate nment for knowing violations. PHONE NO. (area code & no.) (505) 667-4218	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB Dioxins and Furans E-Coli with a system designed to assure the manage the system or those perso
ew Mexico aboratory C. CERTIFIC certify unde qualified per directly respo	YES (list the name, address, are each such laboratory or find A. NAME Tories LLC Analytical LLC Water Testing Inc. ATION For penalty of law that this documes on the property gather and even sible for gathering the information penalties for submitting false of the penalty	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ment and all attachments were prepared under my directivaluate the information submitted. Based on my inquirination, the information submitted is, to the best of my kn information, including the possibility of fine and imprisonation of the coronadory Director ESHQSS	C. TELEPHONE (area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (505) 929-4545 tion or supervision in accordance y of the person or persons who owledge and belief, true, accurate noment for knowing violations. PHONE NO. (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS, PCB Dioxins and Furans E-Coli with a system designed to assure the manage the system or those perso

EXTRA PAGE FOR SIGNATURE ONLY EXTRA PAGE FOR SIGNATURE ONLY YES (bitney) the test(t) and describe their preparet below)	VII. BIOLOGICAL TOXICITY TESTING DATA	A HERITANIAN DATE OF THE PARTY		
EXTRA PAGE FOR SIGNATURE ONLY IND (go to Straton VIII) IND (go to Straton VIII)			city has been made on any of your di	scharges or on a receiving water in
EXTRA PAGE FOR SIGNATURE ONLY Vill CONTRACT ANALYSIS INFORMATION	I		NO / /- Surfies (//II)	
Were any of the analyses reported in item V performed by a contract laboratory or consulting firm? YES (first the mana, exheres, and retephone number of, and pollutants analyzed by, couls such laboratory; or firm below) A. NAME	TES (laemify the test(s) and de	SCHOE THEIR PURPOSES DEIOW)	☐ NO (go to Section VIII)	
Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? YES (list the name, address, and telephone number of, and pollutants analysed by, each such laboratory or firm below) A. NAME	EXTR	A PAGE FOR SIG	SNATURE OI	NLY
YES (list the name, address, and telephone number of, and pollutums analyced by, each such laboratory or firm below) A. NAME B. ADDRESS C. TELEPHONE (area code & na.)	VIII. CONTRACT ANALYSIS INFORMATION			
YES (list the name, address, and telephone number of, and pollutums analyced by, each such laboratory or firm below) A. NAME B. ADDRESS C. TELEPHONE (area code & na.)			?	
IX. CERTIFICATION IX. CERTIFICA	YES (list the name, address, and	d telephone number of, and pollutants analyzed by,	_	
IX. CERTIFICATION IX. CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified presonnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, including the possibility of fine and imprisonment for knowing violations. A. NAME & OFFICIAL TITLE (type or primt) William S. Ggodrum, Manager Los Alamos Field Office D. DATE SIGNED		·	C. TELEPHONE	D. POLLUTANTS ANALYZED
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. A. NAME & OFFICIAL TITLE (type or print) William S. Goodrum, Manager Los Alamos Field Office D. DATE SIGNED	A. IMANIE	B. ADDITESS	(area code & no.)	(list)
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. A. NAME & OFFICIAL TITLE (type or print) William S. Goodrum, Manager Los Alamos Field Office D. DATE SIGNED	IV. CERTIFICATION			
qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. A. NAME & OFFICIAL TITLE (type or print) William S. Goodrum, Manager Los Alamos Field Office D. DATE SIGNED				
William S. Goodrum, Manager Los Alamos Field Office (505) 667-5105 C. SIGNATURE D. DATE SIGNED	qualified personnel properly gather and eva directly responsible for gathering the informa are significant penalties for submitting false in	lluate the information submitted. Based on my inquition, the information submitted is, to the best of my	uiry of the person or persons who i knowledge and belief, true, accurate sonment for knowing violations.	manage the system or those persons
C. SIGNATURE D. DATE SIGNED				
		os Alamos Field Office	(505) 667-5105	
	C. SIGNATURE		CONTROL OF	σ. ⁷ .

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				2. EFFLU	ENT			3, UN (specify if		4. INTAKE (optional)		
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AVR (if available		1 NO OF	- CONCEN		a. LONG ¹ AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	1.82	1.12	(D)				1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	37.1	22.9					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	8.84	5.46					1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	4.7(A)	2.90	4.7(A)	1.79	1.51(A)	0.476	17	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.0504	0.0311					1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.074	(A)	VALUE 0.0457	(A)	VALUE 0.036 (2	7)	364	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 19.1	(B)	VALUE 18.6	(B)	VALUE 17.9 (B)	12	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 24.3	(B)	VALUE 23.4	(B)	VALUE 22.2 (B)	12	°C		VALUE NA		NA
i. pH	MINIMUM 7.3 (C)	MAXIMUM 8.6 (C)	MINIMUM 7.5 (C)	MAXIMUM 8.5 (C)			209	STANDARE	UNITS			

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

		RK "X"			3.	EFFLUENT				4. UNI	rs	5. INT	AKE (option	al)
1. POLLUTANT AND	a.	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 l		c. LONG TERM AV (if availab					a. LONG TERM A		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		3.75	2.32					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0.98 (I,O)	0.6052	0.98 (I,O)	0.373	0.02 (I,O)	0.006	209	mg/L	lbs	NA	NA	NA
c. Color		X	<5	NA	(E,F)				1	PCU	NA	NA	NA	NA
d. Fecal Coliform		X	<1	NA	(E,K)				1	No/100mL	lbs	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.278	0.1717					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		1.4	0.8646					1	mg/L	lbs	NA	NA	NA

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al Laboratory Los Alamos EPA ID No. 1 90010515 ITEM V-B CONTINUED FROM FRONT

	2. MA	RK "X"			3.	EFFLUENT				4. UNI	ΓS	5. INT/	AKE (optiona	ıl)
1. POLLUTANT AND	a,	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A' (if availa		1.110.05	0011051		a. LONG TE AVERAGE V		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.852	0.5262					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease	X		<1.51	<0.9325	(E,N)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		1.58 (0)	0.9757	1.5 (0)	0.602	0.7239 (0)	0.228	17	mg/L	lbs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total		X	<2.88	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		5.8	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total	X		0.7747	NA					1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total	X		0.740	NA					1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₃) (14808-79-8)	X		25.5	15.748					1	mg/L	lbs	NA	NA	NA
l. Sulfide (as S)		X	<0.033	<0.0204	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		9.1	5.62	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants		X	<0.017	<0.0105	(E,F)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	X		<19.3	<0.0119	(H,N)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		51.7	0.0319	(I)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		34.9	0.0216	(I)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)		X	<33	<2e-02	(E)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		6620	4.09					1	ug/L	lbs	NA	NA	NA
u, Molybdenum, Total (7439-98-7)	X		1.85	1e-03	(I)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		<1	<6e-04	(E,N)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<6e-04	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<1e-3	(E,N)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
NM0890010515 03A199

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements:

	2	MARK "X	"			3. E	FFLUENT				4. UN	ITS	5, INTA	KE (optiona	2/)
1. POLLUTANT AND	a.	b,	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		d. NO. OF	a. CONCEN-		a. LONG TE AVERAGE V		b. NO. Of
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b, MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
METALS, CYANIDI	E, AND TOT	AL PHENO	LS		4										
1M. Antimony, Total (7440-36-0)			X	<1	<6e-04	(G)				1	ug/L	lbs	NА	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<1e-03	(G,N)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		7.88	5e-03	(D)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		3.15	2e-03					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)		X		<0.5	<3e-04	(G,N)				1	ug/L	lbs	NA	NA	NA
BM, Mercury, Total (7439-97-6)		X		<0.067	<4e-5	(H,N)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<4e-04	(H,N)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		<2	<1e-03	(G, N)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<2e-04	(G)	-			1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<4e-04	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		3.6	2e-03	(D)		8		1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols, Total		X		<1.67	<1e-03	(E,N)				1	ug/L	lbs	NA	NA	NA
DIOXIN															

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Dioxin (1764-01-6)

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CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. 390010515
CONTINUED FROM THE FRONT

	2	2. MARK "X	11			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND CAS NUMBER	a,	b	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ava		1 110 05	- CONCEN		a, LONG T AVERAGE V		
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – VOLATIL	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<1E-03	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<1E-03	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(J)	1								
5V. Bromoform (75-25-2)		X		0.85	5E-04	(D)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)		X		<0.333	<2E-04	(G,N)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)		X		<0.333	<2E-04	(E,N)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)		X		<0.333	<2E-04	(E,N)				1	ug/L	lbs	NA	NA	NA
13V, Dichloro- difluoromethane (75-71-8)						(J)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<2E-04	(G,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON PAGE V-5

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM PAGE V-4

CONTINUED FRO		2. MARK "X	n			3, 8	FFLUENT	4, UNITS		5. INTA	al)				
1, POLLUTANT AND	a.	b,	C.	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ave	ailable)	AIO CE	- 001051		a LONG TERM AVERAGE VALUE		h NO 05
CAS NUMBER (if available)	TESTING REQUIRED	BÉLIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO, OF ANALYSE
GC/MS FRACTION	I – VOLATII	LE COMPO	UNDS (con	tinued)											
22V. Methylene Chloride (75-09-2)		X		<1.67	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)		X		<0.333	<2e-04	(G,N,O)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
28V, 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)	_								
31V. Vinyl Chloride (75-01-4)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS	3												
1A. 2-Chlorophenol (95-57-8)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.05	<3e-03	(G)				1	ug/L	lbs	NA	NA	NA
6A, 2-Nitrophenol (88-75-5)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA

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Los Alamos nal Laboratory EPA ID No. 90010515

CONTINUED FROM THE FRONT

		2. MARK "X	u			3. EFFLUENT					4. UN	ITS	5. INTA	1)	
1. POLLUTANT AND CAS NUMBER	a,	b,	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERM VALUE (if ava		d. NO, OF	a. CONCEN-		a. LONG TI AVERAGE V		L NO 05
(if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NI	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.94	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
10B, Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
15B, Butyl Benzyl Phthalate (85-68-7)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
16B, 2-Chloro- naphthalene (91-58-7)			X	<0.414	<3e-04	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
19B, Dibenzo (a,h) Anthracene (53-70-3)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA

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	2. MARK "X"		n	3, EFFLUENT								4, UNITS		5. INTAKE (optional	
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 ! (if availa		c, LONG TERM AVRG. VALUE (if available)			- 00110511		a. LONG TERM AVERAGE VALUE		L NO 05
(if available)	AS NUMBER TESTING BELIE (if available) REQUIRED PRES		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
24B, Diethyl Phthalate (84-66-2)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
25B, Dimethyl Phthalate (131 -11-3)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
32B, Fluorene (86-73-7)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	ΝA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			\times	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
38B, Isophorone (78-59-1)			X	<3.54	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. 390010515
CONTINUED FROM THE FRONT

	2, MARK "X"		D.	3, EFFLUENT							4. UN	ITS	5. INTAKE (optional)		
1. POLLUTANT AND	a.	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availai		c. LONG TERM VALUE (if ava		d. NO. OF	- CONCEN		a. LONG T AVERAGE V		L NO O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
43B, N-Nitro- sodiphenylamine (86-30-6)			X	<3.03	<2e-03	(G,M)				1	ug/L	lbs	NA	NA	NA
44В, Phenanthrene (85-01-8)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
2P. α-BHC (319-84-6)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
5P, δ-BHC (319-86-8)			X	<0.007	<4e-06	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.0805	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0105	<6e-06	(G)	4			1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

NM0890010515

03A199

CONTINUED FROM PAGE V-8

		2. MARK "X	11			3, E				4. UN	ITS	5. INTA	al)		
1. POLLUTANT AND	a.	b,	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)			c. LONG TERM AVRG. VALUE (if available)		a CONCEN		a. LONG TERM AVERAGE VALUE		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)							7/					
17P. Heptachlor Epoxide (1024-57-3)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.158	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C **OUTFALL - 03A199**

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using
	data collected between October 2017 and September 2018.
С	
	The pH values provided were determined using data collected between October 2014 and September 2018.
D	Value provided was estimated by the analytical laboratory.
E	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved
	EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
F	Preparation or preservation holding time was exceeded and the value provided has been estimated by the
	laboratory.
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided
	is the MDL.
Н	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region
	6 approved MQL. The value provided is the MDL.
1	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-
М	nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is
	measured as diphenylamine).
	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in
N	the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or
	marked as "believed present" in the previous permit application submitted in 2012.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

LA-UR-19-22215

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

Form Approved. OMB No. 2040-0086, Approval expires 3-31-98.

Please print or type in the unshaded areas only.

FORM

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

A. OUTFALL NUMBER		B. LATITUDE			LONGITUDE		f the receiving water.
(list)	1. DEG.	2, MIN,	3, SEC.	1, DEG.	2, MIN,	3, SEC.	D. RECEIVING WATER (name)
04A022	35.00	52.00	17.00	106.00	18.00	58.00	Mortandad Canyon, Water Quality
							Segment 20.6.4.128 NMAC

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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

1. OUT-	2. OPERATION(S) CON	TRIBUTING FLOW	3. TREATME	TV	
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b, LIST CO	DES FROM 2C-1
04A022	Once Through Cooling Water	1,020 GPD	Dechlorination	2	E
	- Circulating Tank/Sump		Reduction	2	L
	- Air Washers				
04A022	Treated Emergency Cooling Water	1,008 GPD	Dechlorination	2	E
0 111022	~ TA-3-66 Foundry		Reduction	2	L
	(NOT ROUTINE)				
	Stormwater - TA3-66 Roof Drains		Declorination		
04A022		1,413 GPD		2	Е
OFFICIAL	LISE ONLY (afflyant quidulinus sub catagonia				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

	torm runoff, le			the discharges	described in	n Items II-A or B in		sonal?			
	, , , , ,	.,	6		3, F	REQUENCY	- Committee of the comm		4. FLOW		
			A		a. DAYS PI		EL OLA DA	TE /:		VOLUME	T -
1. OUTFALL NUMBER (list)			ERATION(s) BUTING FLOW (list)		WEEK (specify average)	PER YEAR	a FLOW RA 1 LONG TERM AVERAGE	2 MAXIMUM DAILY	1. LONG TERM AVERAGE	with units) 1 2. MAXIMUN DAILY	C. DURATION (in days)
04A022	- 0		ing Water ng Tank/Su	mp	7	12	0.00102 MGD	0.0144 MGD	1,020 GALLONS	14,400 GALLONS	365
	Emergency		Water (no	t routine)	0.4	0.7	0.0010 MGD	0.028 MGD	1,008 GALLONS	28,000 GALLONS	22
	Stormwate				0.9	1.6	0.0014 MGD	0.007 MGD	1,413	6,894	49
	- TA	1-3-66 RO	of Drains						GALLONS	GALLONS	
III. PRODUCTIO	ON				*						
A. Does an effl	luent guideline YES (comple		. =	by EPA under	Section 304	of the Clean Water		ur facility?			
B. Are the limit	ations in the	applicable e	effluent guidel	ine expressed	in terms of p	roduction (or other	The second of the second secon	eration)?			
0.15	YES (comple			1		NO (go to Se			11 11		
	ered "yes" to effluent guidel				sents an act	tual measurement	of your level of	production, ex	pressed in the	terms and ur	nits used in the
			1. AV	RAGE DAILY					2. Al	FECTED OU	TFALLS
a. QUANTITY	PER DAY	b. UNITS	OF MEASUR	RE	c. OPERA	ATION, PRODUCT (specify)	, MATERIAL, E	TC.		list outfall num	
NA		NA		NA					NA		
	1										
IV. IMPROVEN	MENTS							THE STATE OF THE S			
						any implementation					
						ch may affect the di iance schedule lett					
	YES (compl	ete the follo	wing table)			NO (go to Ite	em IV-B)				
1. IDENTIFICA			2. AFF	ECTED OUTF	ALLS	3 BRIE	F DESCRIPTION	N OF PROJEC	т 4.	FINAL COMP	PLIANCE DATE
AGRI	EEMENT, ET	C.	a. NO.	b. SOURCE OF	DISCHARGE	-	BEOOM! (10)	1011110020	_	REQUIRED	b. PROJECTED
NA			NA	NA		NA			NA		NA
						water pollution co ach program is no					
constructio	on,							namica, and ir	.c.outc your ac	sad or plaine	a Juneaujea ic
		IF DESCRI	PTION OF AL	DITIONAL CO		OGRAMS IS ATTA	CHED				
EPA Form 35	10-2C (8-90)				PAC	GE 2 of 4				CONTINU	JE ON PAGE 3

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CONTINUED FROM PAGE 2

NM0890010515

A, B, & C: See instructions before procee NOTE: Tables V-A, V-B, and V		outfall – Annotate the outfall number in the street V-1 through V-9.	space provided.
D. Use the space below to list any of the	pollutants listed in Table 2c-3 of the instruc-	ctions, which you know or have reason to be ve it to be present and report any analytical	elieve is discharged or may be discharged data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2, SOURCE
NA	NA	NA	NA
	,		
VI. POTENTIAL DISCHARGES NOT COVI			
Is any pollutant listed in Item V-C a substar YES (list all such pollutants is	nce or a component of a substance which y below)	ou currently use or manufacture as an intern NO (go to Item VI-B)	nediate or final product or byproduct?
NA			
		*	

EPA Form 3510-2C (8-90) PAGE 3 of 4 CONTINUE ON REVERSE Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

Do you have any knowledge or reason to bel relation to your discharge within the last 3 ye			
relevant to voto discolarne within the last 3 Vo	leve that any biological test for acute or chronic toxicity	has been made on any of your dis	charges or on a receiving water in
YES (identify the test(s) and de		NO (go to Section VIII)	
L 1E3 (identify the test(s) and de	serior then purposes verowy	(go to section vitt)	
NA			
-			
			1
VIII. CONTRACT ANALYSIS INFORMATIO	N E LE L		
Were any of the analyses reported in Item V	performed by a contract laboratory or consulting firm?		
VES (list the name address a	nd telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory or fi		Mo (go to section 1x)	
A. NAME	B, ADDRESS	C. TELEPHONE	D. POLLUTANTS ANALYZED
	, ribbilities	(area code & no.)	(list)
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843)556-8171	VOC, SVOC, Pesticides, Metals, Radiochemistry,
			General Chemistry, BOD,
			TSS
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910)795-0421	Dioxins and Furans
	Wilmington NC 20103		
New Mexico Water Testing	401 North Coronado Ave, Espanola, NM	(505) 929-4545	E-Coli
Laboratory Inc.	87532		
		1	
1			
IX CERTIFICATION			
IX. CERTIFICATION			
I certify under penalty of law that this docu-	ment and all attachments were prepared under my dire valuate the information submitted. Based on my inqui		
I certify under penalty of law that this docu qualified personnel properly gather and e directly responsible for gathering the inform	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my k	iry of the person or persons who nowledge and belief, true, accurate	manage the system or those persons
I certify under penalty of law that this docu qualified personnel properly gather and e directly responsible for gathering the inform are significant penalties for submitting false	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my k information, including the possibility of fine and imprisi	iry of the person or persons who nowledge and belief, true, accurate onment for knowing violations.	manage the system or those persons
I certify under penalty of law that this docu qualified personnel properly gather and e directly responsible for gathering the inform	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my k information, including the possibility of fine and imprisi	iry of the person or persons who nowledge and belief, true, accurate	manage the system or those persons
I certify under penalty of law that this docu qualified personnel properly gather and e directly responsible for gathering the inform are significant penalties for submitting false	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my keinformation, including the possibility of fine and imprising	iry of the person or persons who nowledge and belief, true, accurate onment for knowing violations.	manage the system or those persons
I certify under penalty of law that this docu qualified personnel properly gather and e directly responsible for gathering the informare significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print)	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my kerinformation, including the possibility of fine and imprision. Laboratory Director ESHQSS	iry of the person or persons who mowledge and belief, true, accurate comment for knowing violations. B. PHONE NO. (area code & no.) (505) 667-4218	manage the system or those persons
I certify under penalty of law that this docu qualified personnel properly gather and e directly responsible for gathering the informare significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print)	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my kerinformation, including the possibility of fine and imprision. Laboratory Director ESHQSS	iny of the person or persons who nowledge and belief, true, accurate comment for knowing violations. B. PHONE NO. (area code & no.) (505) 667-4218 D. DATE SIGNED	manage the system or those persons
I certify under penalty of law that this docu qualified personnel properly gather and e directly responsible for gathering the informare significant penalties for submitting false A. NAME & OFFICIAL TITLE (type or print)	valuate the information submitted. Based on my inquination, the information submitted is, to the best of my kerinformation, including the possibility of fine and imprision. Laboratory Director ESHQSS	iry of the person or persons who mowledge and belief, true, accurate comment for knowing violations. B. PHONE NO. (area code & no.) (505) 667-4218	manage the system or those persons

CONTINUED FROM THE FRONT VII. BIOLOGICAL TOXICITY TESTING DATA Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years? NO (go to Section VIII) YES (identify the test(s) and describe their purposes below) EXTRA PAGE FOR SIGNATURE ONLY VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? YES (list the name, address, and telephone number of, and pollutants analyzed by, NO (go to Section IX) each such laboratory or firm below) D. POLLUTANTS ANALYZED C. TELEPHONE A. NAME B. ADDRESS (area code & no.) (list) IX. CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. A. NAME & OFFICIAL TITLE (type or print) B. PHONE NO. (area code & no.) William S. Goodrum, Manager Los Alamos Field Office (505) 667-5105 D. DATE SIGNED

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY, You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages, SEE INSTRUCTIONS,

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V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 04A022

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				2. EFFLU	ENT		3. UN (specify if			4. INTAKE (optional)		
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if avail		c. LONG TERM AVR (if available		1 110 05	- CONCEN		a. LONG 1 AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	1.27	0.153	(D)				1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	19.0	2.28	(D)				1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	<0.66	<0.0793	(E)				1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	13.4	1.61	13.4	0.475	3.631	0.0309	18	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.0343	0.00412	(D)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.0144	(A)	VALUE 0.0043	(A)	VALUE 0.001 (2	<i>Y</i>)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 16.2	(B)	VALUE 12.8	(B)	VALUE 12.1 (B)	13	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 23.1	(B)	VALUE 21.9	(B)	VALUE 20.8 (B)	13	°C		VALUE NA		NA
i. pH	MINIMUM 7	MAXIMUM 8.2	MINIMUM 7.2	MAXIMUM 8.1			191	STANDARE	UNITS			

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	2. MA	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INT.	AKE (option	al)
1. POLLUTANT	a,	b.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM A' (if availa			00110511		a. LONG TERM / VALUE		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b, MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a, Bromide (24959-67-9)	X		<0.067	<0.008	(E)				1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0 (0)	0	0 (0)	0	0 (0)	0	41	mg/L	lbs	NA	NA	NA
c. Color	X		<5	NA	(E,N)				1	PCU	NA	NA	NA	NA
d. Fecal Coliform		X	<1	NA	(E,K)				1	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.247	0.0297					1	mg/L	lbs	NA	NA	NA
f, Nitrate-Nitrite (as N)	X		0.215	0.0258					1	mg/L	lbs	NA	NA	NA

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Los Alamos nal Laboratory EPA ID No. i 90010515 ITEM V-B CONTINUED FROM FRONT

4 5011117417	2. MA	RK "X"				EFFLUENT				4. UNI	rs	5. INT	AKE (optiona	al)
1. POLLUTANT AND CAS NO.	а,	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A' (if availa		- 1 NO OF	- CONOTN		a. LONG TE AVERAGE V		1 110 05
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.0434	0.00522	(D)				1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.44	<0.173	(E)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		0.0294	0.00353	(E)				1	mg/L	lbs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total		X	<1.14	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		<2.21	NA	(E,N)				1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.534	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<0.19	NA	(E)				1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₃) (14808-79-8)	X		2.48	0.298					1	mg/L	lbs	NA	NA	NA
I. Sulfide (as S)		X	<0.033	<4E-03	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)		X	0	0					1	mg/L	lbs	NA	NA	NA
n. Surfactants	X		0.0266	0.0032	(D)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)		X	<19.3	<0.0023	(H)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		64.3	0.00773	(I)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		20.9	0.00251	(I)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		33.2	0.00399	(D)				1	ug/L	lbs	NA	NA	NA
t, Magnesium, Total (7439-95-4)	X		2800	0.336					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		1.67	2E-04	(I)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)		X	<1	<1E-04	(E)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<1E-04	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<2E-04	(E,N)				1	ug/L	lbs	NA	NA	NA

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Los Alamos National Laboratory EPA ID No. NM0890010515

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
NM0890010515 04A022

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

	2	MARK "X"	•			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	al)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERM VALUE (if ava		1 NO 05	a. CONCEN-		a. LONG TI AVERAGE V		b. NO. O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	
METALS, CYANIDI	E, AND TOT	AL PHENO	LS												
1M. Antimony, Total (7440-36-0)			X	<1	<1E-04	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<2E-04	(H,N)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<2E-05	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		3.49	4E-04	(I,D)				1	ug/L	lbs	NA	NA	NA
6M, Copper, Total (7440-50-8)		X		5.46	7E-04					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)			X	<0.5	<6E-05	(G)				1	ug/L	lbs	NA	NA	NA
3M. Mercury, Total 7439-97-6)			X	<0.067	<8E-06	(H)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total 7440-02-0)			X	<0.6	<7E-05	(H)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Fotal (7782-49-2)		X		<2	<2E-04	(G,N)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total 7440-22-4)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
12M, Thallium, Fotal (7440-28-0)			X	<0.6	<7E-05	(H)				1	ug/L	lbs	NA	NA	NA
13M, Zinc, Total 7440-66-6)		X		26.5	3E-03					1	ug/L	lbs	NA	NA	NA
14М. Cyanide, Гotal (57-12-5)			X	<1.67	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
5M. Phenols, Fotal			X	<1.67	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA

2,3,7,8-Tetrachlorodibenzo-P- DESCRIBE RESULTS Analytical result is <11.7 pg/L (lower than the MDL). However, the MDL is greater than the EPA MQL 10 pg/L.

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Dioxin (1764-01-6)

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CONTINUED FROM THE FRONT

	2	2. MARK "X	ii.			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (option	ıl)
1. POLLUTANT AND	a.	b,	C,	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if av			20112511		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
4V, Bis (Chloro- methyl) Ether (542-88-1)						(J)									
5V. Bromoform (75-25-2)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
8V_ Chlorodi- bromomethane (124-48-1)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<2e-4	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)			X	<0.333	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(J)									
14V ₋ 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<4E-05	(G,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA

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CONTINUED FROM		2. MARK "X	11			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (option	ıl)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		c. LONG TERM VALUE (if ava		4 NO 05	- CONCEN		a. LONG T AVERAGE V		NO 0
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. O ANALYSE
GC/MS FRACTION	- VOLATII	E COMPO	UNDS (cont	imued)											
22V. Methylene Chloride (75-09-2)			X	<1.67	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	– ACID CC	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.0	<6E-04	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

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CONTINUED FROM THE FRONT 2. MARK "X" 3. EFFLUENT 4 UNITS 5. INTAKE (optional) 1. POLLUTANT b. MAXIMUM 30 DAY VALUE c. LONG TERM AVRG. a. LONG TERM AND a. MAXIMUM DAILY VALUE (if available) AVERAGE VALUE VALUE (if available) CAS NUMBER d. NO. OF a. CONCENb. NO. OF TESTING BELIEVED BELIEVED (1) CONCENTRATION (1) CONCENTRATION (1) CONCENTRATION (1) (if available) TRATION REQUIRED PRESENT ABSENT (2) MASS (2) MASS ANALYSES b. MASS ANALYSES (2) MASS CONCENTRATION (2) MASS GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS 1B. Acenaphthene < 0.3 <4E-05 (G) 1 ug/L lbs NA NA NA (83-32-9)2B. Acenaphtylene < 0.3 <4E-05 (E) 1 lbs NA NA NA uq/L (208-96-8) 3B. Anthracene < 0.3 <4E-05 (G) 1 ug/L lbs NA NA NA (120-12-7)4B. Benzidine (G) < 3.9 <5E-04 1 uq/L lbs NA NA NA (92-87-5) 5B. Benzo (a) Anthracene < 0.3 <4E-05 (G) 1 uq/L lbs NA NA NA (56-55-3)6B. Benzo (a) < 0.3 < 4E - 05(G) 1 uq/L lbs NA NA NA Pyrene (50-32-8) 7B. 3.4-Benzofluoranthene < 0.3 <4E-05 (G) 1 uq/L lbs NA NA NA (205-99-2)8B. Benzo (ghi) NA < 0.3 <4E-05 (E) 1 ug/L lbs NA NA Pervlene (191-24-2) 9B. Benzo (k) Fluoranthene < 0.3 <4E-05 (G) 1 ug/L lbs NA NA NA (207-08-9)10B. Bis (2-Chloroethoxy) Methane (E) <3.0 <4E-04 1 uq/L lbs NA NA NA (111-91-1) 11B, Bis (2-Chloroethyl) Ether <3.0 <4E-04 (G) 1 ug/L lbs NA NA NA (111-44-4) 12B. Bis (2-Chloroisopropyl) (G) 1 ug/L lbs NA NA NA <1.67 <2E-04 Ether (102-80-1) 13B. Bis (2-Ethylhexyl) Phthalate < 0.3 <4E-05 (G) 1 ug/L lbs NA NA NA (117-81-7) 14B. 4-Bromophenyl Phenyl Ether NA <4E-05 (E) 1 uq/L lbs NA NA <3.0 (101-55-3)15B. Butvl Benzvl lbs (G) 1 uq/L NA NA NA < 0.3 <4E-05 Phthalate (85-68-7) 16B, 2-Chloronaphthalene (G) 1 lbs NA NA NA < 0.41 <5E-05 ug/L (91-58-7) 17B. 4-Chlorophenyl Phenyl Ether (E) 1 ug/L lbs NA NA NA <3.0 <4E-04 (7005-72-3) 18B. Chrysene 1 NA NA NA < 0.3 <4E-05 (G) uq/L lbs (218-01-9) 19B. Dibenzo (a,h) Anthracene < 0.3 <4E-05 (G) 1 uq/L lbs NA NA NA (53-70-3)20B. 1,2-Dichloro-(G) 1 lbs NA NA NA < 0.333 <4E-05 ug/L benzene (95-50-1) 21B, 1,3-Di-chlorolbs < 0.333 <4E-05 (G) 1 ug/L NA NA NA benzene (541-73-1)

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CONTINUED FROM		2. MARK "X	(b)			3. E	FFLUENT				4. UN	ITS		KE (option	ıl)
1. POLLUTANT AND	a,	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availat		c. LONG TERM VALUE (if avo					a, LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL C	OMPOUND												
22B, 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<3.0	<4E-04	(G)			(e	1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<0.3	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			\times	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.5	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.3	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
40B, Nitrobenzene (98-95-3)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			\times	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUED FROM THE FRONT

	2. MARK "X"						FFLUENT				4. UNITS 5. INTAKE (optional)				
1. POLLUTANT AND CAS NUMBER	a. TESTING	b. BELIEVED	c. BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availa		c. LONG TERM VALUE (if ave		d. NO. OF	a. CONCEN-		a, LONG T AVERAGE V	ERM	b. NO. OF
(if available)	REQUIRED		ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE:
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S (continued)											-
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<4e-04	(G,M)				1	ug/L	lbs	NA	NA	NA
44B, Phenanthrene (85-01-8)			X	<0.3	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	N - PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
2P ₋ α-BHC (319-84-6)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
3P_ β-BHC (319-85-7)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.00739	<9E-07	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.85	<1E-05	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
11P _• α-Enosulfan (115-29-7)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

CONTINUED FROM PAGE V-8

NM0890010515 04A022

	1	2. MARK "X	n			3. E	FFLUENT				4. UNITS		5. INTA	ıl)	
1. POLLUTANT AND	a,	b,	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if avo			aguaru		a, LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	1 1	b. NO. OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)												
17P, Heptachlor Epoxide (1024-57-3)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.167	<2E-05	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C **OUTFALL - 04A022**

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and September 2018.
D	Value provided was estimated by the analytical laboratory.
E	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
F	Preparation or preservation holding time was exceeded and the value provided has been estimated by the laboratory.
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided is the MDL.
Н	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region 6 approved MQL. The value provided is the MDL.
1	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is
М	measured as diphenylamine).
	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in
	the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or
N	marked as "believed present" in the previous permit application submitted in 2012.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

LA-UR-19-22215

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

Please print or type in the unshaded areas only.

2C SEPA

NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

I. OUTFALL LOCATION							
For each outfall, list the	latitude and	longitude of its	s location to t	he nearest 15	seconds and	the name of	the receiving water.
A. OUTFALL NUMBER		B. LATITUDE	Ø 33	С	. LONGITUD	E	
(list)	1. DEG.	2, MIN.	3, SEC.	1, DEG,	2, MIN.	3, SEC,	D. RECEIVING WATER (name)
05A055	30.00	50.00	49.00	106.00	19.00	52.00	Ephemeral Tributary to Canon De Valle,
							Water Quality Segment 20.6.4.128 NMAC

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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) CONT	TRIBUTING FLOW	3. TREATMEN	NT	
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COL TABLE	DES FROM 2C-1
05A055	High Explosives Wastewater Treatment	270 GPD	Slow Sand Filtration	1	v
	Facility (HEWTF)		Carbon Adsorption	2	А
	- Treated Effluent		Ion Exchange	2	J
			Evaporation	1	F
	n _g				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

C. Except for st	torm runoff, leaks, or sp YES (complete the follow		the discharges	described in	Items II-A or B int NO (go to Sec		sonal?							
				3. FF	REQUENCY			4, FLOW						
				a, DAYS PE		FLOWER	TF / .		VOLUME					
1. OUTFALL NUMBER (list)		PERATION(s) RIBUTING FLOW (list)		WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a, FLOW RA 1, LONG TERM AVERAGE	2. MAXIMUM DAILY	1, LONG TERM AVERAGE	2. MAXIMUI DAILY	C. DURATION				
05 A 055	High Explosives Facility (HEWTF)			0.1	0.1	0,0003 MGD	0.0021	270 Gallons	2,120 Gallons	4				
	ractifity (RBWIF)	Treatment	racificy				MGD	Gallons	Gallons					
III. PRODUCTIO	ON													
TO CENT TO STATE S	uent guideline limitation		by EPA under S	ection 304 c	of the Clean Water NO (go to Se		ur facility?							
B. Are the limit	ations in the applicable		ine expressed in	n terms of pr			eration\?							
	YES (complete Item III		onproducti	cima oi pi	NO (go to Se		action;							
C. If you answ	ered "yes" to Item III-E	B, list the quant	ity which repres	ents an acti			production, ex	pressed in the	terms and u	nits used in the				
applicable e	effluent guideline, and i		ected outfalls, ERAGE DAILY F	PRODUCTION	ON.			1						
a OLIANITITY	A DED DAY L LINIT				TION, PRODUCT	, MATERIAL, E	TC.	Part Control of the C	FECTED OU					
a, QUANTITY	PER DAY D. UNII	S OF MEASUR	KE .		(specify)									
NA	NA		NA					NA						
treatment e	MENTS ow required by any Forequipment or practices ditions, administrative of the complete the following the foll	or any other er or enforcement	vironmental pro	grams which	h may affect the d	ischarges descri ers, stipulations	bed in this app	olication? This i	ncludes, but	s not limited to.				
	ATION OF CONDITION EEMENT, ETC.		ECTED OUTFA		3, BRIEF	DESCRIPTION	OF PROJEC	'		PLIANCE DATE				
		a, NO.	b. SOURCE OF D	DISCHARGE					REQUIRED	b, PROJECTED				
NA		NA	NA		NA			NA		NA				
	L: You may attach ad b) you now have under on. MARK "X" IF DESCF	way or which y	ou plan. Indicate	whether ea	ach program is no	w underway or p								

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

CONTINUED FROM PAGE 2

NM0890010515

V. INTAKE AND EFFLUENT CHARACTEI			
NOTE: Tables V-A, V-B, and \	eding – Complete one set of tables for each /-C are included on separate sheets numbe	red V-1 through V-9.	
 D. Use the space below to list any of the from any outfall. For every pollutant yo 	pollutants listed in Table 2c-3 of the instruct u list, briefly describe the reasons you belie	ctions, which you know or have reason to we it to be present and report any analytica	believe is discharged or may be discharged al data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Dinitrotoluene (2C-3) Styrene (2C-3 and 2C-4) Uranium (2C-3)	High Explosives Waste Treatment Facility (HEWTF) - Chemicals identified on influent Waste Stream Profile forms.		
VI. POTENTIAL DISCHARGES NOT COV			
Is any pollutant listed in Item V-C a substant	nce or a component of a substance which you	ou currently use or manufacture as an inte NO (go to Item VI-B)	ermediate or final product or byproduct?
YES (list all such pollutants	netow)	NO (go to tiem vi-n)	

VII. BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to believelation to your discharge within the last 3 year	eve that any biological test for acute or chronic toxicity irs?	has been made on any of your dis	charges or on a receiving water in
YES (identify the test(s) and des		NO (go to Section VIII)	ı.
NA			
AVI			1
			1
			Į.
			1
			_
VIII. CONTRACT ANALYSIS INFORMATION			
	performed by a contract laboratory or consulting firm?		
✓ YES (list the name, address, an each such laboratory or fir)	d telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
		C. TELEPHONE	D. POLLUTANTS ANALYZED
A. NAME	B. ADDRESS	(area code & no.)	(list)
GEL Laboratories LLC	2040 Savage Road	(843) 556-8171	Biological Oxygen Demand,
	Charleston SC 29407		General Chemistry Pesticides, Polychlorinated
			Biphenyls, Radiochemistry, Semi-volatile Organic
			Compounds
			Total Metals, Total Suspended Solids, Volatile
			Organic Compounds
New Mexico Water Testing	401 North Coronado Ave	(505) 929-4545	E.Coli
Laboratory, Inc.	Espanola, NM 87532		
Cape Fear Analytical LLC	3306 Kitty Hawk Road Suite 120	(910) 795-0421	TCDD (dioxin)
	Wilmington, NC 28405		
IV CERTIFICATION			
IX. CERTIFICATION	neet and all attachments were recovered under the	action or supposite in accordance	with a custom decisioned to persure that
	nent and all attachments were prepared under my din valuate the information submitted. Based on my inqu		
directly responsible for gathering the inform	nation, the information submitted is, to the best of my	knowledge and belief, true, accurat	
	information, including the possibility of fine and impris	B. PHONE NO. (area code & no.)	
A. NAME & OFFICIAL TITLE (type or print)		,	
Michael W. Hazen, Associate I	Laboratory Director ESHQSS	(505) 667-4218	
C. SIGNATURE		D. DATE SIGNED	
LoMair	Acres	3-20-19	
	4	20011	
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CONTINUED FROM THE FRONT

VII, BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to beli relation to your discharge within the last 3 year YES (identify the test(s) and des		city has been made on any of your dis	scharges or on a receiving water in
La rac (managy ma ram) y and and	arms men purposes reson ;		
EXTR	A PAGE FOR SIC	SNATURE OI	NLY
VIII. CONTRACT ANALYSIS INFORMATION			
Were any of the analyses reported in Item V p	performed by a contract laboratory or consulting fire	m?	
YES (list the name, address, and each such laboratory or firm	l telephone number of, and pollutants analyzed by, n below)	NO (go to Section IX)	
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
IX. CERTIFICATION			TOP - INFORMATION
I certify under penalty of law that this docume qualified personnel properly gather and eva directly responsible for gathering the informa	ent and all attachments were prepared under my o luate the information submitted. Based on my in tion, the information submitted is, to the best of m nformation, including the possibility of fine and imp	quiry of the person or persons who r rknowledge and belief, true, accurate	manage the system or those persons
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO. (area code & no.)	
William S. Goodryn, Manager Lo	os Alamos Field Office	(505) 667-5105	
C. SIGNATURE		D. DATE SIGNED 3-25-19	

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
NMO 8 9 0 0 1 0 5 1 5

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 05A055

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				2, EFFLU	ENT			3. UNI (specify if					
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)		c, LONG TERM AVR (if available		1 NO 05	- CONOTN		a. LONG AVERAGE		L NO 05	
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES	
a. Biochemical Oxygen Demand (BOD)	5.98	1.1e-1					1	mg/L	lbs	NA	NA	NA	
b. Chemical Oxygen Demand (COD)	99.0	1.75					1	mg/L	lbs	NA	NA	NA	
c. Total Organic Carbon (TOC)	1.50	2.65e-2	(D)				1	mg/L	lbs	NA	NA	NA	
d. Total Suspended Solids (TSS)	<0.57	<1e-2	(E)				1	mg/L	lbs	NA	NA	NA	
e. Ammonia (as N)	2.27	4.02e-2	(0)				1	mg/L	lbs	NA	NA	NA	
f. Flow	VALUE 0.0021	(A)	VALUE 0.0021	(A)	VALUE 0.0003 (A)	est.	MGD	NA	VALUE		NA	
g. Temperature (winter)	VALUE 14.5	(B)	VALUE NA		VALUE NA		est.	°C		VALUE NA		NA	
h. Temperature (summer)	VALUE 23.7	(B)	VALUE NA		VALUE NA		est.	°C		VALUE NA		NA	
i. pH	MINIMUM 6.5 (C)	MAXIMUM 8.7 (C)	MINIMUM NA	MAXIMUM NA	10000000000000000000000000000000000000		NA	STANDARD	UNITS		是是		

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall, See the instructions for additional details and requirements.

	2, MA	RK "X"			3.	EFFLUENT				4. UNI	rs	5. INTAKE (optional)		
1. POLLUTANT AND	a,	b.	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AV					a. LONG TERM A		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		5.76	0.1					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0.02	3.5e-04	(I)				1	mg/L	lbs	NA	NA	NA
c. Color		X	<5	NA	(E)				1	PCU	NA	NA	NA	NA
d. Fecal Coliform		X	<1	NA	(E,K)				1	cfu/100m	NA	NA	NA	NA
e, Fluoride (16984-48-8)	X		2.87	0.051					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		29.5	0.522					1	mg/L	lbs	NA	NA	NA

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ITEM V-B CONT	INUED FRO	OM FRONT											_	March 201	
1, POLLUTANT	2. MAI	RK "X"				EFFLUENT				4. UNI	TS	5. INTAKE (optional)			
AND CAS NO.	a.	b. BELIEVED	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 I		c, LONG TERM A' (if availa		d. NO. OF	a. CONCEN-		a, LONG TE AVERAGE V		b. NO. OF	
(if available)	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE	
g. Nitrogen, Total Organic (as N)	X		3.88	0.69					1	mg/L	lbs	NA	NA	NA	
h. Oil and Grease	X		<1.59	<0.028	(E,N)				1	mg/L	lbs	NA	NA	NA	
i. Phosphorus (as P), Total (7723-14-0)	X		5.65	0.1					1	mg/L	lbs	NA	NA	NA	
j. Radioactivity															
(1) Alpha, Total		X	0	NA	(E)				1	pCi/L	NA	NA	NA	NA	
(2) Beta, Total	X		85.9	NA					1	pCi/L	NA	NA	NA	NA	
(3) Radium, Total	X		<0.1819	NA	(E,N)				1	pCi/L	NA	NA	NA	NA	
(4) Radium 226, Total	X		<0.0759	NA	(E,N)				1	pCi/L	Na	NA	NA	NA	
k. Sulfate (as SO ₃) (14808-79-8)	X		987	17.46					1	mg/L	lbs	NA	NA	NA	
I. Sulfide (as S)		X	<0.033	<6e-04	(E)				1	mg/L	lbs	NA	NA	NA	
m. Sulfite (as SO ₃) (14265-45-3)	X		0	0					1	mg/L	lbs	NA	NA	NA	
n. Surfactants		X	<0.017	<3e-04	(E,F)				1	mg/L	lbs	NA	NA	NA	
o. Aluminum, Total (7429-90-5)		X	<19.3	<0.341	(H)				1	ug/L	lbs	NA	NA	NA	
p. Barium, Total (7440-39-3)	X		1.47	0.026	(D,I)				1	ug/L	lbs	NA	NA	NA	
q. Boron, Total (7440-42-8)	X		1510	26.7					1	ug/L	lbs	NA	NA	NA	
r. Cobalt, Total (7440-48-4)		X	<0.3	<5.3e-3	(G)				1	ug/L	lbs	NA	NA	Na	
s. Iron, Total (7439-89-6)	X		66.7	1.18	(D)				1	ug/L	lbs	NA	NA	NA	
t. Magnesium, Total (7439-95-4)		X	<10	<0.177	(E)				1	ug/L	lbs	NA	NA	NA	
u. Molybdenum, Total (7439-98-7)	X		34.7	0.614					1	ug/L	lbs	NA	NA	NA	
v. Manganese, Total (7439-96-5)		X	<1	<0.018	(E)				1	ug/L	lbs	NA	NA	NA	
w. Tin, Total (7440-31-5)		X	<1	<0.018	(E)				1	ug/L	lbs	NA	NA	NA	
x. Titanium, Total (7440-32-6)		X	<2	<0.035	(E)	10.			1	ug/L	lbs	NA	NA	NA	

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EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

NM0890010515 05A055

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

	2	MARK "X	11			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	al)
1. POLLUTANT AND	a,	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		1 NO OF	- CONCEN		a. LONG TE AVERAGE V		b. NO. O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	
METALS, CYANIDI	E, AND TOT	AL PHENC	DLS												
1M. Antimony, Total (7440-36-0)		X		22.1	0.039	(I)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		22.9	0.405	(D)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)		X		0.2	0.0035	(I)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<0.005	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		1.56	0.0276	(D, I)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		11.2	0.1982					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)		X		3.49	0.0617	(D)				1	ug/L	lbs	NA	NA	NA
BM. Mercury, Total (7439-97-6)		X		0.085	0.0015	(D)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		5.26	0.0931					1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		9.25	0.1637	(D)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<0.005	(G)				1	ug/L	lbs	NA	NA	NA
12M. Thallium Total (7440-28-0)			X	<0.6	<0.011	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		49.8	0.8811					1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<3e-05	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols, Fotal		X		<1.67	<3e-05	(E,N)				1	ug/L	lbs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			X	DESCRIBE RESU	LTS Analyt	ical Result is <	11 pg/L (les	ss than the MDL).	Howver,	the MDL is	greater than	the EPA MQI	L OF 10 pg/L. (H)		

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		2. MARK "X	11			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND CAS NUMBER	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 i (if availar	ble)	c. LONG TERM VALUE (if ava	ailable)	- 4 NO OF	- CONCEN		a. LONG T AVERAGE \	/ALUE	L NO 05
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b, MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – VOLATII	LE COMPO	UNDS									·			
1V. Accrolein (107-02-8)			X	<1.67	<3e-05	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<3e-50	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0.33	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (<i>Chloro-methyl</i>) Ether (542-88-1)						(L)									
5V. Bromoform (75-25-2)			X	<0.33	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<6e-06	(E)				1	ug/L	lbs	NA	NA	NA
10V, 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<3e-05	(E)				1	ug/L	lbs	NA	NA	NA
11V, Chloraform (67-66-3)			X	<0.333	<6e-06	(E,O)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<6e-06	(E)				1	ug/L	lbs	NA	NA	NA
13V, Dichloro- difluoromethane (75-71-8)						(J)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<6e-06	(E)				1	ug/L	lbs	NA	ÑA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<6e-06	(G,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<6e-06	(E)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	п				FFLUENT				4. UN	ITS		KE (optiona	ıl)
1. POLLUTANT AND	a.	b	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERN VALUE (if ave		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. OI
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATII	E COMPO	UNDS (con	tinued)											
22V. Methylene Chloride (75-09-2)			X	<1.67	<3e-05	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
24V, Tetrachloro- ethylene (127-18-4)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<6e-06	(G,O)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<6e-06	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS								-					V
1A, 2-Chlorophenol (95-57-8)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<9e-05	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
8A, P-Chloro-M- Cresol (59-50-7)			X	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA

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	- 2	2. MARK "X	13				FFLUENT				4. UN	ITS		KE (optiona	(I)
1. POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availa		c. LONG TERM VALUE (if ava		1 NO 65	- 001051		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE:
GC/MS FRACTION	- BASE/NI	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
2B, Acenaphtylene (208-96-8)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.90	<7e-05	(G)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (<i>a</i>) Anthracene (56-55-3)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			×	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<3e-05	(G)				1	ug/L	lbs	NA	NA	NA
13B, Bis (<i>2-Ethyl-</i> <i>hexyl</i>) Phthalate (117-81-7)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			×	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
16B, 2-Chloro- naphthalene (91-58-7)			X	<0.410	<7e-06	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
20B, 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA

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		2. MARK "X	"				FFLUENT				4. UN	ITS		AKE (option	al)
1, POLLUTANT AND	a	b,	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		c. LONG TERM VALUE (if ava		1 110 05	- 001051		a, LONG T AVERAGE \		L NO 05
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b, NO. OF ANALYSES
GC/MS FRACTION	– BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B. 1,4-Dichlcro- benzene (106-46-7)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichlcro- benzidine (91-94-1)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.300	<5e-06	(G)				1_	ug/L	lbs	NA	NA	NA
26B, Di-N-Butyl Phthalate (84-74-2)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<3.00	<5e-05	(G,O)		14		1	ug/L	lbs	NA	NA	NA
28B. 2,6-Dinitro- toluene (606-20-2)			X	<3.00	<5e-05	(E,O)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
30B, 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	ΝA	NA
38B. Isopharone (78-59-1)			X	<3.50	<6e-05	(G)				1	ug/L	lbs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
41B, N-Nitro- sodimethylamine (62-75-9)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
42B, N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA

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EPA ID No. 990010515
CONTINUED FROM THE FRONT

CONTINUED FRO		2. MARK "X	ш			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	·/)
1. POLLUTANT AND CAS NUMBER	a.	b,	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 ((if availal		c. LONG TERM VALUE (if ava		1 110 05	CONOFN		a, LONG T AVERAGE V	ERM	
(if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO, OF ANALYSES	a. CONCEN- TRATION	b, MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<5E-05	(G,M)				1	ug/L	lbs	NA	NA	NA
44B, Phenanthrene (85-01-8)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTIO	N – PESTIC	IDES							<u>, </u>						
1P. Aldrin (309-00-2)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
2P, α-BHC (319-84-6)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
4P _* γ-BHC (58-89-9)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.0070	<1e-07	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.0805	<1e-60	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
9P_4,4'-DDD (72-54-8)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.0070	<le-07< td=""><td>(G)</td><td></td><td></td><td></td><td>1</td><td>ug/L</td><td>lbs</td><td>NA</td><td>NA</td><td>NA</td></le-07<>	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA

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OUTFALL NUMBER

NM0890010515

05A055

CONTINUED FROM PAGE V-8

		2. MARK "X	13			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	1/)
1. POLLUTANT AND	a	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		1 110 05	2011251		a. LONG T AVERAGE V		l No of
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b, NO, OF ANALYSE:
GC/MS FRACTION	- PESTICI	IDES (contin	ued)												
17P, Heptachlor Epoxide (1024-57-3)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	AN	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.1580	<3e-06	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 05A055

	The flow rates provided are estimated based upon tank capacity and a maximum flow rate to the outfall of 3
Α	gpm.
В	The temperatures provided are based upon historical data provided in the 2004 NPDES Permit Application.
	The pH range provided are based upon historical data provided in the 2004 NPDES Permit Application and
С	field parameter data collected in August of 2019.
D	Value provided was estimated by the analytical laboratory.
E	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved
	EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
F	Preparation or preservation holding time was exceeded and the value provided has been estimated by the
	laboratory.
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided
	is the MDL.
Н	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region
	6 approved MQL. The value provided is the MDL.
	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-
	nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is
M	measured as diphenylamine).
	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in
	the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or
N	marked as "believed present" in the previous permit application submitted in 2012.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98,

Please print or type in the unshaded areas only

FORM



U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

2C NPDES	SEPA	EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program
LOUTEALLI	OCATION	

. OUTFALL NUMBER (list)		B. LATITUDE		C.	LONGITUDE					
(list)	1, DEG.	2, MIN,	3, SEC.	1, DEG.	2. MIN.	3, SEC,	D. RECEIVING WATER (name)			
13S	35.00	51.00	8.00	106.00	16.00	33.00	Canada del Buey, Ephemeral Reach in			
130			1			Water Quality Segment 20.6.128 NMAC				

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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) CONT	RIBUTING FLOW	3. TREATMEN	NT.	
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COD TABLE	ES FROM 2C-1
13S	Sanitary Wastewater (SWWS) System	228,808 GPD	Grit Removal	1	М
	Treated Effluent		Mixing	1	0
			Screening	1	Т
			Sedimentation (settling)	1	U
			Dechlorination	2	Е
i			Disinfection (chlorine)	2	F
1			Activated Sludge	3	A
			Pre-Aeration	3	Е
		(sludge)	Composting	5	G
		(sludge)	Drying Beds	5	Н
1		(sludge)	Landfill	5	Q
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OFFICIAL USE ONLY (effluent guidelines sub-categories)

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				2 5	REQUENCY			4. FLOW		
				a, DAYS PE					L VOLUME	
		ERATION(s)		WEEK	b. MONTHS	a. FLOW RA	TE (in mgd)	(specif)	with units)	- OUDATIO
1. OUTFALL NUMBER (list)	CONTRI	BUTING FLOW (list)		(specify average)	PER YEAR (specify average)	1. LONG TERM AVERAGE	2, MAXIMUM DAILY	1. LONG TER AVERAGE	2 MAXIMU DAILY	C. DURATIO (in days)
	y Wastewat Effluent	er System	(SWWS)	7	12	0.0229 MGD	0.418 MGD	228,808 GALLONS	418,000 GALLONS	365
. PRODUCTION Does an effluent guide	line limitation		by EPA unde	er Section 304 c	of the Clean Water NO (go to Sec		ur facility?			
. Are the limitations in the			ine expresse	ed in terms of pr			eration)?			
	nplete Item III-				NO (go to See					1
 If you answered "yes' applicable effluent gu 					ual measurement	of your level of	production, ex	pressed in th	e terms and u	nits used in the
		1. AV	ERAGE DAIL	Y PRODUCTION	NC			2. A	FFECTED OL	ITFALLS
a, QUANTITY PER DAY	b. UNITS	OF MEASU	RE	c. OPERA	TION, PRODUCT (specify)	, MATERIAL, E	TC.		(list outfall nur	
A	NA		NA			_		NA		
A. Are you now require treatment equipment permit conditions, ad YES (co	or practices o	r any other er enforcement	vironmental	programs which	h may affect the di	ischarges descri ers, stipulations	ibed in this app	plication? This	includes, but	is not limited to
I. IDENTIFICATION OF AGREEMENT,		2. AF	ECTED OU	TFALLS	3. BRIEF	DESCRIPTION	N OF PROJEC	т	FINAL COM	PLIANCE DAT
		a. NO.	b. SOURCE (OF DISCHARGE					. REQUIRED	b. PROJECTE
IA		NA	NA		NA			N	A	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

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V. INTAKE AND EFFLUENT CHARACTERISTICS A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.											
NOTE: Tables V-A, V-B, and \	/-C are included on separate sheets number	red V-1 through V-9.									
D. Use the space below to list any of the from any outfall. For every pollutant yo	pollutants listed in Table 2c-3 of the instruct u list, briefly describe the reasons you believ	tions, which you know or have reason to be the it to be present and report any analytical	delieve is discharged or may be discharged data in your possession.								
1, POLLUTANT	2. SOURCE	1. POLLUTANT	2, SOURCE								
Aniline (2C-3) Carbon Disulfide (2C-3) Cresol (2C-3) Strontium (2C-3) Styrene (2C-3) Uranium (2C-3) Vanadium (2C-3)	Sanitary Wastewater System (SWWS) Effluent. A review of the waste stream profiles associated with the water treated at the SWWS identified the 7 Form 2C-3 pollutants listed in Section V.D.1.										
VI. POTENTIAL DISCHARGES NOT COV	ERED BY ANALYSIS										
	nce or a component of a substance which yo	ou currently use or manufacture as an inter	mediate or final product or byproduct?								
YES (list all such pollutants	helow)	NO (go to Item VI-B)									
NA											

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VII. BIOLOGICAL TOXICITY TESTING DAT							
Do you have any knowledge or reason to be relation to your discharge within the last 3 ye	lieve that any biological test for acute or chronic toxicity ears?	has been made on any of your dis	scharges or on a receiving water in				
YES (identify the test(s) and de		NO (go to Section VIII)					
NA							
IVA							
VIII. CONTRACT ANALYSIS INFORMATIO	N V						
	/ performed by a contract laboratory or consulting firm?						
YES (list the name, address, a each such laboratory or f	nd telephone number of, and pollutants analyzed by,	NO (go to Section IX)					
A. NAME	B. ADDRESS	C. TELEPHONE	D. POLLUTANTS ANALYZED				
A. NAIVIE	B. ADDRESS	(area code & no.)	(list)				
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843)556-8171	OC, SVOC, Pesticides, Metals, Radiochemistry,				
			General Chemistry, BOD,				
			TSS				
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120,	(910)795-0421	Dioxins and Furans				
	Wilmington NC 28405						
New Mexico Water Testing	401 North Coronado Ave, Espanola, NM	(505) 929-4545	E-Coli				
Laboratory Inc.	87532	Manual Tr. St. of State Co.					
			1				
IX. CERTIFICATION							
	ment and all attachments were prepared under my dire	ction or supervision in accordance	with a system designed to assure the				
qualified personnel properly gather and e	valuate the information submitted. Based on my inqui-	ry of the person or persons who	manage the system or those person				
	mation, the information submitted is, to the best of my ki e information, including the possibility of fine and impriso		e, and complete. I am aware that ther				
A. NAME & OFFICIAL TITLE (type or print)	A CONTRACT OF THE PROPERTY OF	3. PHONE NO. (area code & no.)					
Michael W. Hazen, Associate		(505) 667-4218					
C. SIGNATURE	•	D. DATE SIGNED					
Collan	~ AOR	3-20-19					
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VII. BIOLOGICAL TOXICITY TESTING DATA Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years? YES (identify the test(s) and describe their purposes below) NO (go to Section VIII) EXTRA PAGE FOR SIGNATURE ONLY VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? YES (list the name, address, and telephone number of, and pollutants analyzed by, NO (go to Section IX) each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED A. NAME B. ADDRESS (area code & no.) (list) IX. CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. A. NAME & OFFIGIAL TITLE (type or print) B. PHONE NO. (area code & no.) William S odrum, Manager Los Alamos Field Office (505) 667-5105 D. DATE SIGNED

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

n. MAXIMUM DAI ONCENTRATION 1.59	(2) MASS 5.546	b. MAXIMUM 30 (if availa (1) CONCENTRATION		c, LONG TERM AVRO (if available)					a. LONG T	ERM	
1.59		CONCENTRATION	(2) MASS			J J NO OF 1	CONSEN		a. LONG TERM AVERAGE VALUE		b. NO, OF ANALYSES
	5.546				(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	
60.5		(D)				1	mg/L	lbs	NA	NA	NA
67.5	235.5					1	mg/L	lbs	NA	NA	NA
6.04	21.07					1	mg/L	lbs	NA	NA	NA
5.08	17.72					1	mg/L	lbs	NA	NA	NA
0.215	0.75	(P)				1	mg/L	lbs	NA	NA	NA
LUE 0.418 ((A)	VALUE 0.2529 (A)		VALUE 0.229 (A) 365		365	MGD	NA	VALUE		NA
LUE 8.0 (E	3)	VALUE NA		VALUE NA	0	°C		VALUE NA		NA	
LUE 25.5 (1	в)	VALUE NA		VALUE NA	0	°C		VALUE NA		NA	
NIMUM 7.5 (C)	MAXIMUM 7.7 (C)	MINIMUM 7.5 (C)	MAXIMUM 7.7 (C)			2	STANDARD	UNITS			1000
0 LUE	5.08 .215 E 0.418 (E 8.0 (E 25.5 (I	5.08 17.72 .215 0.75 E 0.418 (A) E 8.0 (B) E 25.5 (B)	5.08 17.72 .215 0.75 (P) E 0.418 (A) VALUE 0.2529 E 8.0 (B) VALUE NA E 25.5 (B) VALUE NA	5.08 17.72 .215 0.75 (P) E 0.418 (A) VALUE 0.2529 (A) E 8.0 (B) VALUE NA E 25.5 (B) WALUE NA	5.08 17.72	5.08 17.72 .215 0.75 (P) E 0.418 (A) VALUE 0.2529 (A) VALUE 0.229 (A) E 8.0 (B) VALUE NA VALUE NA VALUE NA NA NA NA NA NA NA NA NA NA NA NA NA	1 .215 0.75 (P) 1 1	1 mg/L 215 0.75 (P) 1 mg/L E 0.418 (A) VALUE 0.2529 (A) VALUE 0.229 (A) 365 MGD E 8.0 (B) VALUE NA VALUE NA 0 °C E 25.5 (B) VALUE NA VALUE NA 0 °C	1 mg/L lbs 1 mg/L	1 mg/L lbs NA 215 0.75 (P) 1 mg/L lbs NA E 0.418 (A) VALUE 0.2529 (A) VALUE 0.229 (A) 365 MGD NA VALUE NA E 8.0 (B) VALUE NA VALUE NA 0 °C VALUE NA E 25.5 (B) VALUE NA VALUE NA 0 °C VALUE NA MINIMUM MAXIMUM MINIMUM MAXIMUM	1 mg/L lbs NA NA 1 mg/L lbs N

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2, MARK "X"		3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)					a. LONG TERM AVERAGE VALUE			
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES	
a. Bromide (24959-67-9)	X		0.126	0.4395	(D)				1	mg/L	lbs	NA	NA	NA	
b. Chlorine, Total Residual	X		1.62 (C,P)	5.6512	1.62 (C,P)	3.419	0.985(C,P)	1.881	2	mg/L	lbs	NA	NA	NA	
c. Color	X		10	NA					1	PCU	NA	NA	NA	NA	
d. Fecal Coliform	X		2	(L)					1	#/100mL	NA	NA	NA	NA	
e, Fluoride (16984-48-8)	X		0.348	1.214					1	mg/L	lbs	NA	NA	NA	
f. Nitrate-Nitrite (as N)	X		0.0498	0.1737	(D)				1	mg/L	lbs	NA	NA	NA	

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COutfall 13S

March 2019

1 DOLLUTANT	2. MA	RK "X"				EFFLUENT				4. UNI	TS		AKE (optiona	ul)
1. POLLUTANT AND CAS NO.	a. BELIEVED	b, BELIEVED	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AV (if availa		d. NO. OF	a. CONCEN-		a, LONG TE AVERAGE V		
(if available)	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.991	3.457	(P)				1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.49	<5.198	(E)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		3.12	10.884	(P)				1	mg/L	lbs	AN	NA	NA
j. Radioactivity														
(1) Alpha, Total	X		<1.16		(0)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		13.2	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.487	NA					1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<0.31	NA					1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₃) (14808-79-8)	X		19.3	67.326					1	mg/L	lbs	NA	NA	NA
I. Sulfide (as S)		X	<0.033	<0.1151					1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		0	0	(P)				1	mg/L	lbs	NA	NA	NA
n, Surfactants	X		0.0389	0.1357	(D)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	X		21.7	0.0757	(D)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		21.8	0.0760	(I)				1	ug/L	lbs	NA -	NA	NA
q. Boron, Total (7440-42-8)	X		51.9	0.1810	(I)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)	X		<0.3	<0.0010	(G,O)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		49.7	0.1734	(D)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		6570	22.92					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X	5	1.85	0.0065	(I)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		31.8	0.1109					1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<0.0035	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<0.0070	(E,O)				1	ug/L	lbs	NA	NA	NA

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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater, Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

		2, MARK "X	"			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (optioni	ıl)
1. POLLUTANT AND	a.	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ave		J. NO. 05	OONGEN		a, LONG T AVERAGE V		, NO 05
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
METALS, CYANID	E, AND TOT	TAL PHENC	DLS												
1M, Antimony, Total (7440-36-0)			X	<1	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		3	0.0105	(D)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<7e-04	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
5M, Chromium, Total (7440-47-3)		X		<3	<0.011	(G,O)				1	ug/L	lbs	NA	NA	NA
6M, Copper, Total (7440-50-8)		X		1.2	4e-03					1	ug/L	lbs	NA	NA	NA
7M. Lead, ⊤otal (7439-92-1)			X	<0.5	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)		X		<0.067	<2e-04	(H,O)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<2e-03	(H,O)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		<2	<7e-03	(G,O)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<2e-03	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		48.5	0.1692					1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<6e-03	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols, Total		X		2.21	0.0077	(D,P)				1	ug/L	lbs	NA	NA	NA
DIOXIN															

2,3,7,8-Tetrachlorodibenzo-P-

DESCRIBE RESULTS Analytical Result = <11.3 pg/L (lower than the MDL) however, the MDL used is greater than EPA MQL of 10 pg/L.

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CONTINUE ON REVERSE

Dioxin (1764-01-6)

4 BOLLITANT		MARK "X					FFLUENT				4. UN	ITS		KE (optiona	ıl)
1. POLLUTANT AND CAS NUMBER	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERN VALUE (if ave		J NO OF	- CONCEN		a, LONG T AVERAGE V		, ,,, ,,,
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – VOLATIL	E COMPO	JNDS												
1V. Accrolein (107-02-8)			X	<1.67	<6e-03	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<6e-03	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)		X		0.68	2e-03	(D,P)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(J)									
5V. Bromoform (75-25-2)		X		4.46	2e-02	(I)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)		X		25.2	9e-02	(I)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<0.006	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)		X		20.2	7e-02	(P)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)		X		32.6	1e-01					1	ug/L	lbs	NA	NA	NA
13V, Dichloro- difluoromethane (75-71-8)						(٦)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
17V _* 1,2-Dichloro- propane (78-87-5)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<1e-03	(G,M)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)		X		<0.333	<1e-03	(G, P)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA

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	VITAGE V	2. MARK "X	п			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND	a,	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ave		, NO 0-	- 0011051		a. LONG T AVERAGE V		L NO 05
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- VOLATII	LE COMPO	UNDS (cont												
22V. Methylene Chloride (75-09-2)			X	<1.67	<6e-03	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)		X		<0.333	<1e-03	(G,P)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
28V, 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(IJ)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS	3												
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<2e-02	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.00	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.00	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
8A, P-Chloro-M- Cresol (59-50-7)			X	<3.00	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
10A, Phenol (108-95-2)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON REVERSE

Los Alamos nal Laboratory EPA ID No. Nwo890010515 CONTINUED FROM THE FRONT

		2. MARK "X					FFLUENT				4. UN	ITS		KE (optiona	1)
1. POLLUTANT AND CAS NUMBER	a,	b,	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERN VALUE (if ava		d. NO. OF	- 001051		a. LONG TI AVERAGE V		
(if available)		PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NI	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.3	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
3B, Anthracene (120-12-7)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.9	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.3	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-('hloro- ethoxy') Methane (111-91-1)			X	<3.0	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<0.006	(G)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)		X		6.54	2e-02	(I)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.0	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.41	1E-03	(G)				1	ug/L	lbs	NA	NA	NA
17B, 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.0	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
20B, 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON PAGE V-7

CONTINUED FRO	-	2. MARK "X	("			3. E	FFLUENT				4. UN	ITS	5, INTA	AKE (option	al)
1. POLLUTANT AND	a,	b.	C.	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if av		- NO 05	OCNOEN		a. LONG T AVERAGE \	/ALUE	J. NO 05
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	N - BASE/N	EUTRAL C	OMPOUND	S (continued)					×						
228. 1,4-Dichloro- benzene (106-46-7)		ļ.	X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
23B, 3,3-Dichloro- benzidine (91-94-1)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.0	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<0.3	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.5	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	<0.3	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
40B, Nitrobenzene (98-95-3)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON REVERSE

	:	2. MARK "X	,				FFLUENT				4. UN	ITS		KE (optiono	(/)
1. POLLUTANT AND CAS NUMBER	a.	b.	c. BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		VALUE (if ava		d NO 05	a CONCEN		a. LONG TI AVERAGE V		- h NO O
(if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S (continued)		•							'		
43B, N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<1e-02	(N)				1	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.3	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	I – PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
2P. α-BHC (319-84-6)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)		X		0.0558	2e-04					1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.081	<3e-04	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON PAGE V-9

EPA I.D. NUMBER (copy from Item 1 of Form 1)

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OUTFALL NUMBER

CONTINUED FROM PAGE V-8

		2. MARK "X	"			3. E	FFLUENT				4. UN	ITS	5, INTA	AKE (options	ul)
1. POLLUTANT AND	a.	b,	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava		1 10 05	- 001/051		a. LONG T AVERAGE V		NO 05
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- PESTICI	DES (contin	ued)								,				
17P. Heptachlor Epoxide (1024-57-3)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)		X		<0.0333	<le-04< td=""><td>(G, K, P)</td><td></td><td></td><td></td><td>1</td><td>ug/L</td><td>lbs</td><td>NA</td><td>NA</td><td>NA</td></le-04<>	(G, K, P)				1	ug/L	lbs	NA	NA	NA
19P, PCB-1254 (11097-69-1)		X		<0.0333	<1e-04	(G,K,P)				1	ug/L	lbs	NA	NA	NA
20P, PCB-1221 (11104-28-2)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
22P, PCB-1248 (12672-29-6)		X		<0.0333	<1e-04	(G,K,P)				1	ug/L	lbs	NA	NA	NA
23P, PCB-1260 (11096-82-5)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.16	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 13S

В	The temperatures provided are based upon historical data provided in the 2004 NPDES Permit Application.
С	The pH range and total residual chlorine are based upon field data collected in September 2018.
D	Value provided was estimated by the analytical laboratory.
E	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
F	Preparation or preservation holding time was exceeded and the value provided has been estimated by the laboratory.
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided is the MDL.
Н	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region 6 approved MQL. The value provided is the MDL.
I	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	Results were obtained using the EPA Aroclor Method 608.3. PCBs are believed to be present in low concentrations based upon Waste Stream Profiles for wastewater treated at SWWS and sampling data collected by operations.
L	The E. Coli result is provided as an indicator for Fecal Coliform.
М	Result is for cis- and trans-1,3 dichloropropylene.
N	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is measured as diphenylamine).
0	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or marked as "believed present" in the previous permit application submitted in 2012.
Р	Identified as a potential pollutant from one of the sources discharging to the outfall.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

Please print or type in the unshaded areas only.

SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

I. OUTFALL LOCATION	N
---------------------	---

FORM

NPDES

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 NUMBER	l l	B. LATITUDE		C	, LONGITUD	E	
(list)	1. DEG.	2. MIN.	3, SEC.	1, DEG,	2. MIN.	3, SEC.	D, RECEIVING WATER (name)
051	35.00	51.00	54.00	106.00	17.00	54.00	Effluent Canyon, Tributary in Mortandad
							Canyon, Water Quality Segment
							20.6.4.128 NMAC

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. 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.
- B. 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) CON	TRIBUTING FLOW	3, TREATMEN	T	
FALL NO. (list)	G. C. Eletticit (iii)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b, LIST COI TABLE	DES FROM 2C-1
051	Radioactive Liquid Waste Treatment	20,000 GPD (Batch)	Evaporation	1	F
	Facility (RLWTF) Treated Effluent		Mixing	1	0
	- Treated Process Water	(18,400 GPD, 92%)	Reverse Osmosis (Hyperfiltration)	1	S
	- Treated Cooling Water	(200 GPD, 1%)	Sedimentation (Settling)	1	U
	- Treated Storm Water	(1,400 GPD, 7%)	Chemical Precipitation	2	С
			Ion Exchange	2	J
			Neutralization	2	K
			Landfill	5	Q
			Pressure Filtration	5	R
			Vacuum Filtration	5	Ū
		0			
			1		

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

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CONTINUE ON REVERSE

					3, FRE	QUENCY			4. FLOW		
					a. DAYS PER	T				VOLUME	
1. OUTFALL			ERATION(s) BUTING FLOW	ı	WEEK (specify	b. MONTHS PER YEAR	a. FLOW RA			vith units)	C. DURATIO
NUMBER (list)		CONTIN	(list)		average)	(specify average)	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	(in days)
51			d Waste T: Treated B:		4	12	0.02 MGD	0.04 MgD	20,000 GALLONS	39,840 GALLONS	208
II. PRODUCTIO	ON ON										
A. Does an effl		ne limitation		by EPA und	er Section 304 of	the Clean Water NO (go to See		ur facility?		4-	
B. Are the limit	ations in the	applicable e	effluent guide	line expresse	ed in terms of proc	duction (or other	measure of ope	eration)?			
C. If you arew	1 1	lete Item III-0	,	tity which re	oresents an actua	NO (go to Se		production ev	rnressed in the	terms and un	its used in the
			dicate the aff	ected outfalls	S.,		or your lever or	production, ex	The state of the s	terms and an	nto uocu iii tiic
		*)			LY PRODUCTION	ON, PRODUCT	MATERIAL E	rc		FECTED OU	
a. QUANTITY	PER DAY	b. UNITS	OF MEASU	RE	C. OI LIGHT	(specify)	, WATERIAL, L		()	ist outfall num	bers)
NA		NA		NA					NA		
IV. IMPROVEN		by any Foo	deral State	er lead outb	ority to meet any	implementation	a ashadula far	lha aquatriyati		a anarations	of westernate
treatment e	quipment or litions, admi	practices of	r any other en enforcement	nvironmental	programs which r rcement complian	may affect the di	scharges descri ers, stipulations	bed in this app	olication? This i	ncludes, but i	
1. IDENTIFICA	TION OF C	ONDITION,		FECTED OU			DESCRIPTION	OF PROJEC	T 4.	FINAL COMP	LIANCE DATI
AGRE	EMENT, ET	C	a, NO,	b. SOURCE	OF DISCHARGE				_	REQUIRED	b, PROJECTED
NA			NA	NA	2	JA			NA	1	NA
B OPTIONAL	· Vou may	attach addi	tional sheets	describing	any additional wa	ater pollution co	ontrol programs	(or other envi	vironmental pro	iects which n	nav affect vo

EPA Form 3510-2C (8-90) PAGE 2 of 4 CONTINUE ON PAGE 3

EPA I.D. NUMBER (copy from Item 1 of Form 1)

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CONTINUED FROM PAGE 2			
V. INTAKE AND EFFLUENT CHARACTE			
	eding – Complete one set of tables for each or V-C are included on separate sheets numbere		e space provided.
D. Use the space below to list any of the from any outfall, For every pollutant you	pollutants listed in Table 2c-3 of the instruction list, briefly describe the reasons you believe	ons, which you know or have reason to to be present and report any analytica	believe is discharged or may be discharged al data in your possession.
1. POLLUTANT	2. SOURCE	1, POLLUTANT	2. SOURCE
Carbon Disulfide Cresol Strontium Uranium Vanadium Xylene Zirconium	Identified on a Waste Stream Profile associated with the influent treated at the RLW Treatment Facility		
	¥		
VI. POTENTIAL DISCHARGES NOT COV			
Is any pollutant listed in Item V-C a substa	nce or a component of a substance which you	a currently use or manufacture as an inte O (go to Item VI-B)	ermediate or final product or byproduct?
	,	Q (g o to nom +1 1)	
			*
			-

EPA Form 3510-2C (8-90) PAGE 3 of 4 CONTINUE ON REVERSE

VII. BIOLOGICAL TOXICITY TESTING DATA	The second second second				
	THECATION A NAME B. ADDRESS C. TELEPHONE D. POLLUTANTS ANALYZED (581795-6421 Diskins and Purans and Earling Conditions of String Rack Road, Suite 123, 412, 112, 112, 112, 112, 112, 112, 112				
		NO (go to Section VIII)			
Whole Effluent Lethality 48-h	r acute, Critical dilution 100% wit	th a dilution series of	32%, 42%, 56%, 75%, and		
	mnosite				
RESORTS FOR SAMPLE COTTECTED	beptember 24, 2010 Nobe - 1000,	. 400			
VIII. CONTRACT ANALYSIS INFORMATION					
		NO (go to Section 1x)	7/		
A. NAME	B. ADDRESS				
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843)556-8171	Metals, Radiochemistry, General Chemistry, BOD,		
Cape Fear Analytical LLC		(910)795-0421	Dioxins and Furans		
New Mexico Water Testing Laboratory Inc.		(505) 929-4545	E-Coli		
Pacific EcoRisk	2250 Cordelia Rd., Fairfield CA 94534	(707) 207-7760	Whole Effluent Toxicity		
IX. CERTIFICATION					
qualified personnel properly gather and ev directly responsible for gathering the inform	valuate the information submitted. Based on my inquation, the information submitted is, to the best of my	iry of the person or persons who knowledge and belief, true, accurat	manage the system or those persons		
A, NAME & OFFICIAL TITLE (type or print)					
Michael W. Hazen, Associate I	aboratory Director ESHQSS	(505) 667-4218			
C. SIGNATURE		D. DATE SIGNED			
1/201/00	- lon	3-20-19			
		7 / / / / /			

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EPA ID No. NM0890010515 March 2019 CONTINUED FROM THE FRONT VII. BIOLOGICAL TOXICITY TESTING DATA Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years? YES (identify the test(s) and describe their purposes below) NO (go to Section VIII) EXTRA PAGE FOR SIGNATURE ONLY VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? NO (go to Section IX) $oxedsymbol{oxdet}$ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED A. NAME **B. ADDRESS** (area code & no.) (list) IX, CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. A. NAME & OFFICIAL TITLE (type or print) B. PHONE NO. (area code & no.) William S. Goodrum, Manager Los Alamos Field Office (505) 667-5105

EPA Form 3510-2C (8-90)

C. SIGNATUR

PAGE 4 of 4

D. DATE SIGNED

Los Alamos National Laboratory EPA ID No. NM0890010515

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

PART A -You must provide the results of at least one analysis for every pollutant in this table, Complete one table for each outfall, See instructions for additional details,

				2, EFFLU	ENT			3. UN (specify if			4. INTAKE (optional)	
	a. MAXIMUM DA	AILY VALUE	b, MAXIMUM 30 (if availa		c. LONG TERM AVR (if available		4 NO OF	a. CONCEN-		a. LONG 1 AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	10.2	3.39				1	1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	19	6.32	(D)				1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	<0.66	<0.219	(E)				1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	<0.57	<0.19	(E)				1	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.393	0.131	(0)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.0398	(A)	VALUE 0.02	(A)	VALUE 0.02 (A)	est.	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 24.0	(B)	VALUE NA		VALUE NA		est.	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 20.0	(B)	VALUE NA		VALUE NA		est.	°C		VALUE NA		NA
i. pH	MINIMUM 6.1 (C)	MAXIMUM 8.9 (C)	MINIMUM NA	MAXIMUM NA			est.	STANDARI	UNITS			

PART B — 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 believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	2. MA	RK "X"			3.	EFFLUENT				4. UNI	rs	5. INT	AKE (option	al)
1. POLLUTANT AND	a	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERM AV (if availal					a. LONG TERM A VALUE		, NO 05
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		0.0717	2.4e-02	(D)				1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0.4	1.3e-01	(I,O)				1	mg/L	lbs	NA	NA	NA
c. Color	X		5	NA	(F)					PCU	NA	NA	NA	NA
d. Fecal Coliform		X	<1	NA	(E,K)				1	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.201	6.7e-02	(0)				1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		5.3	1.76	(0)				1	mg/L	lbs	NA	NA	NA

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EPA ID No. 990010515 ITEM V-B CONTINUED FROM FRONT

	2. MA	RK "X"				EFFLUENT				4. UNI	TS	5. INT	AKE (optiona	al)
1. POLLUTANT AND	a,	b.	a, MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A' (if availa					a. LONG TE AVERAGE V		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.787	2.6e-01					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease	X		<1.54	<0.512	(E,N)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		0.0692	2.3e-02					1	mg/L	lbs	NA	NA	Na
j. Radioactivity														
(1) Alpha, Total	X		61.4	NA					1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		9.72	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total	X		2.05	NA					1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total	X		1.25	NA					1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₄) (14808-79-8)	X		51.0	17.0	(0)				1	mg/L	lbs	NA	NA	NA
L Sulfide (as S)		X	<0.033	<1e-02	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		0.9	0.299	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants	X		<0.017	<6e-03	(F,E,N)					mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)		X	<19.3	<6e-03	(H)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		2.54	8.5e-04	(I)	F)			1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		56.6	1.88e-2	(I)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)	X		0.343	1.1e-04	(D,I)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		49.3	1.6e-02	(D,O)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		1660	5.5e-01					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		4.43	1.5e-03	(I)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		38.1	1.3e-02					1	ug/L	lbs	NA	NA	NA
w, Tin, Total (7440-31-5)	X		16.1	5.4e-03					1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)		X	<2.0	<7e-04	(E)				1	ug/L	lbs	NA	NA	NA

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
NM0890010515 051

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - 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 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide 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 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

	2	MARK "X"	"			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	al)
1. POLLUTANT AND	a,	b,	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERM VALUE (if ava		4 NO OF	a. CONCEN-		a. LONG TI AVERAGE V		b. NO. OI
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	
METALS, CYANIDI	E, AND TOT	AL PHENO	LS												
1M. Antimony, Total (7440-36-0)			X	<1.0	<3e-04	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)			X	<2.0	<7e-04	(H)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<7e-05	(G,O)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)			X	<3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		7.35	2e-03					1	ug/L	lbs	NA	NA	NA
7M, Lead, Total (7439-92-1)			X	<0.5	<2e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
8M, Mercury, Total (7439-97-6)			X	<0.067	<2e-05	(H)				1	ug/L	lbs	NA	NA	NA
9M, Nickel, Total (7440-02-0)		X		12.2	4e-03					1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)			X	<2	<7e-04	(G)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<2e-04	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		3.83	1e-03	(D,I,O)				1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols, Total		X		2.54	9e-04	(D)				1	ug/L	lbs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			X	DESCRIBE RESU	LTS Analyt	ical result is <	11.4 pg/L (1	less than the MDI). Howeve	er the MDL u	sed is greate	r than the	EPA MQL of 10pg/	L.	

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CONTINUE ON REVERSE

difluoromethane

15V. 1,2-Dichloro-ethane (107-06-2)

16V. 1,1-Dichloro-

ethylene (75-35-4) 17V. 1,2-Dichloro-

propane (78-87-5) 18V. 1,3-Dichloropropylene (542-75-6)

19V. Ethylbenzene

Bromide (74-83-9) 21V. Methyl Chloride (74-87-3)

(100-41-4) 20V. Methyl

(75-71-8)14V. 1,1-Dichloro-ethane (75-34-3)

lbs

lbs

lbs

lbs

lbs

lbs

lbs

lbs

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CONTINUED FROM		2. MARK "X"	11			2 5	FFLUENT				4. UN	ITC	T E INTA	KE (optiona	/\
1, POLLUTANT AND	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availat	DAY VALUE	c. LONG TERM VALUE (if ava				113	a, LONG T	ERM	
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- VOLATII	LE COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<6e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<6e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)		X		<0.333	<1e-04	(G,N,O)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(J)									
5V. Bromoform (75-25-2)		X		1.02	3e-04	(I)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
8V ₋ Chlorodi- bromomethane (124-48-1)		X		1.02	3e-04	(I)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<6e-04	(E)				1	ug/L	lbs	NA	NA	NA
11V ₋ Chloroform (67-66-3)		X		1.5	5e-04	(0)				1	ug/L	lbs	NA	NA	NA
12V, Dichloro- bromomethane (75-27-4)		X		0.41	1e-04	(D)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro-						>									

(J)

(E)

(G)

(G)

(G, O)

(G,L,O)

(G,O)

(G)

(E)

<1e-04

<1e-04

<1e-04

<1e-04

<1e-04

<1e-04

<1e-04

<1e-04

<0.333

<0.333

< 0.333

< 0.333

<0.333

<0.333

< 0.337

<0.333

CONTINUE ON PAGE V-5 EPA Form 3510-2C (8-90) PAGE V-4

		2. MARK "X	(II			3. E	FFLUENT				4, UN	ITS	5. INT/	AKE (optiona	al)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava					a. LONG T AVERAGE \		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	T T		a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. O ANALYSE
GC/MS FRACTION	- VOLATII	LE COMPO	UNDS (cont	inued)											
22V, Methylene Chloride (75-09-2)			X	<1.67	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
23V, 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
24V, Tetrachloro- ethylene (127-18-4)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS	5	1							-				
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
2A, 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<1e-03	(G)		,		1	ug/L	lbs	NA	NA	NA
4A, 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
7A, 4-Nitrophenol (100-02-7)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
8A, P-Chloro-M- Cresol (59-50-7)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<1e-03	(G,O)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUED FROM THE FRONT

		2. MARK "X	"				FFLUENT				4. UN	ITS		KE (optiona	ıl)
1. POLLUTANT AND CAS NUMBER	a,	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availa		c. LONG TERM VALUE (if ava	1 AVRG. ailable)	d. NO. OF	a. CONCEN-		a, LONG T AVERAGE V		b. NO. OF
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S								101			
1B. Acenaphthene (83-32-9)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.30	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.90	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.30	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.00	<1e-03	(G)				1_	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.410	<1e-4	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

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CONTINUE ON PAGE V-7

		2. MARK "X	TH .			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	ıl)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ava					a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B, 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
23B, 3,3-Dichloro- benzidine (91-94-1)			X	<3.00	<1e-03	(G,O)				1	ug/L	lbs	NA	NA	NA
24B, Diethyl Phthalate (84-66-2)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
25B, Dimethyl Phthalate (131 -11-3)		X		<0.300	<1e-04	(G,N)		1		1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
32B, Fluorene (86-73-7)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
35B, Hexachloro- cyclopentadiene (77-47-4)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			\times	<3.50	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.300	<1e-04	(E,O)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
42B, N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA

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CONTINUE ON REVERSE

	2	2. MARK "X	"			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	(l)
1. POLLUTANT AND	a.	b,	C.	a. MAXIMUM DA	A st. of the control	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava		1 NO OF	- CONCEN		a. LONG TI AVERAGE V		L NO OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NI	EUTRAL CO	OMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<1e-03	(G,M)				1	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.300	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	I – PESTIC	IDES				-									
1P, Aldrin (309-00-2)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
2P ₋ α-BHC (319-84-6)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
3P, β-BHC (319-85-7)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.00739	<2e-06	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.0850	<3e-05	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.01110	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.01110	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.01110	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.01110	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.01110	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.01110	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
14P, Endrin (72-20-8)			X	<0.01110	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
15P, Endrin Aldehyde (7421-93-4)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
16P, Heptachlor (76-44-8)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

OUTFALL NUMBER

051

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	2. MARK "X"				3, EFFLUENT				4. UNITS 5. INTAKE (optional)			al)			
1. POLLUTANT AND CAS NUMBER (if available)	a. TESTING REQUIRED	b,	C.	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			001105		a. LONG TERM AVERAGE VALUE		
		1 - 0 - 111 - 0		BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION
GC/MS FRACTION	N - PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
21P, PCB-1232 (11141-16-5)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
22P, PCB-1248 (12672-29-6)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	ΝA	NA
24P, PCB-1016 (12674-11-2)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.1670	<6e-05	(G)				1	ug/L	lbs	NA	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C **OUTFALL - 051**

	Estimated based upon the size of an effluent tank, the volume of influent received, and the total volume of
Α	effluent generated. The facility can discharge a maximum of 1 effluent tank every 4 hours (2 tanks in an 8
	hour shift).
В	The temperature range provided was estimated by RLW operations based upon knowledge of process.
С	The pH range provided was estimated by RLW operations based upon knowledge of process.
D	Value provided was estimated by the analytical laboratory.
_	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved
E	EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
	Preparation or preservation holding time was exceeded and the value provided has been estimated by the
r	laboratory.
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided
G	is the MDL.
	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region
Н	6 approved MQL. The value provided is the MDL.
1	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-
	nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is
М	measured as diphenylamine).
	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in
	the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or
N	marked as "believed present" in the previous permit application submitted in 2012.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

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LOS ALAMOS NATIONAL LABORATORY

Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application Permit No. NM0028355

LA-UR-19-22215 March 2019

For: Los Alamos National Laboratory Los Alamos, NM

Submitted By: U.S. Department of Energy – National Nuclear Security Administration, Los Alamos Field Office and Triad National Security, LLC

Prepared By:
Los Alamos National Laboratory
Environmental Protection and Compliance Division
Compliance Programs Group



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VOLUME I

Section	Title
Introduction	Los Alamos National Laboratory Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application
Form 1	U.S. Environmental Protection Agency (EPA) Form 1- "General Information"
Form 2	U.S. Environmental Protection Agency (EPA) Form 2
001	Outfall 001 - Form 2C, Fact Sheet and Attachments
13S	Outfall 13S – Form 2C, Fact Sheet and Attachments
03A027	Outfall 03A027 – Form 2C, Fact Sheet and Attachments
03A048	Outfall 03A048 – Form 2C, Fact Sheet and Attachments
03A113	Outfall 03A113 – Form 2C, Fact Sheet and Attachments
03A160	Outfall 03A160 – Form 2C, Fact Sheet and Attachments
03A181	Outfall 03A181 – Form 2C, Fact Sheet and Attachments
03A199	Outfall 03A199 – Form 2C, Fact Sheet and Attachments
04A022	Outfall 04A022 – Form 2C, Fact Sheet and Attachments
051	Outfall 051 – Form 2C, Fact Sheet and Attachments
05A055	Outfall 05A055 – Form 2C, Fact Sheet and Attachments

VOLUME II

Appendix	Title
А	List of Environmental Permits at the Los Alamos National Laboratory
В	Hazardous Waste Management Facility Maps
С	Map 1 - Los Alamos National Laboratory Technical Area Map
D	Map 2 - Sanitary Sewer and Storm Drain Systems and National Pollutant Discharge Elimination System (NPDES) Outfall Locations
E	Map 3 – Location Map of Water Supply Wells, Monitoring Wells, Springs, and Other Surface Water Bodies
F	Signature Authority Letter
G	Historical and Existing National Pollutant Discharge Elimination System (NPDES) Outfall Status Summary
Н	Notice of Changed Conditions and/or Planned Changes (March 2012 – February 2019)
I	LA-UR-18-20700, EP2018-0036, Surface Water Data at Los Alamos National Laboratory, Water Year 2014
J	2017 Drinking Water Quality Data Report
К	Executive Summary of the Los Alamos National Laboratory's National Pollutant Discharge Elimination System (NPDES) Permit Re-Application Implementation Plan
L	Sampling and Analysis Plan for Los Alamos National Laboratory's National Pollutant Discharge Elimination System (NPDES) Permit Re-Application
М	State of New Mexico Classified Stream Segments, 20.6.4 NMAC





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2	Existing Permitted NPDES Outfalls	
3	List of Outfalls Included in the Permit Re-Application Package	



EPA ID No. NM0890010515

ACRONYMS/ABBREVIATIONS

CWA Clean Water Act

DOE U.S. Department of Energy
EA Environmental Assessment

ENV-DO Environmental Protection Division
EPA Environmental Protection Agency

EPC-CP Environmental Protection and Compliance – Compliance Programs
ESHQSS Environment, Safety, Health & Quality, and Safeguards & Security

°F Fahrenheit ft feet/foot

HEWTF High Explosives Wastewater Treatment Facility

IPSP Industrial Point Source PermitIWD Integrated Work Document

LANL Los Alamos National Laboratory

LDCC Laboratory Data Communications Center

NEPA National Environmental Policy Act
NMAC New Mexico Administrative Code

NMED New Mexico Environment Department
NNSA National Nuclear Security Administration

NPDES National Pollutant Discharge Elimination System

QA quality assurance

RCRA Resource Conservation and Recovery Act
RLWTF Radioactive Liquid Waste Treatment Facility

SAP Sampling and Analysis Plan SMO Sample Management Office

SWEIS Site Wide Environmental Impact Statement

SWWS Sanitary Waste Water System

TA Technical Area

WAC Waste Acceptance Criteria

WCATS Waste Compliance and Tracking System

WSP Waste Stream Profile





EPA ID No. NM0890010515

EXECUTIVE SUMMARY

The Los Alamos National Laboratory (Laboratory) must apply for renewal of the existing Industrial and Sanitary Point-Source National Pollutant Discharge Elimination System (NPDES) Permit No. NM0028355 issued by the U.S. Environmental Protection Agency (EPA) under the requirements specified in the Clean Water Act Section 402 and Code of Federal Regulations, Title 40, Section 122. The existing permit expires on September 30, 2019. The NPDES permit and regulations require the Laboratory to submit a re-application 180 days prior to the expiration of the existing permit, April 4, 2019. The attached document, forms, Appendices, and Attachments constitute the Laboratory's permit reapplication for the following eleven (11) outfalls:

- 001 Power Plant
- 13S Sanitary Waste Water System Facility
- 03A027 Treated Cooling Water
- 03A048 Treated Cooling Water
- 03A113 Treated Cooling Water
- 03A160 Treated Cooling Water
- 03A181 Treated Cooling Water
- 03A199 Treated Cooling Water
- 04A022 Once Through Cooling Water and Roof Drains
- 051 Radioactive Liquid Waste Treatment Facility Effluent
- 05A055 High Explosives Wastewater Treatment Facility Effluent

The Laboratory is categorized as an industrial or commercial facility that is renewing an existing NPDES permit with no new outfalls. This categorization requires that the permit reapplication include an EPA Form 1 and EPA Form 2C. This 2019 Permit Re-Application includes a Form 1 that provides general information such as the nature of business, name, mailing address, location, and other existing permits that apply to Laboratory operations. It also includes a Form 2C and fact sheet for each outfall. The Form 2C, fact sheet, and the fact sheet attachments provide detailed information regarding the location of the outfall, sources of influent water, production levels, and the analytical data for potential contaminants in the effluent discharged from the outfall.



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LOS ALAMOS NATIONAL LABORATORY INDUSTRIAL AND SANITARY OUTFALLS 2019 NPDES PERMIT RE-APPLICATION

The current Los Alamos National Laboratory (LANL or Laboratory), National Pollutant Discharge Elimination System (NPDES) Industrial and Sanitary Discharge Permit No. NM0028355 will expire September 30, 2019. The NPDES permit and regulations require the Permittees to submit a re-application to the U.S. Environmental Protection Agency (EPA) 180 days prior to the expiration of the existing permit, April 4, 2019. This document serves as the 2019 NPDES Permit Re-Application package for the renewal of NPDES Permit No. NM0028355 submitted to the EPA by the U.S. Department of Energy (DOE) – National Nuclear Security Administration (NNSA) and the Triad National Security, LLC. The DOE/NNSA and Triad are hereinafter referred to as the "copermittees or permittees."

This 2019 NPDES Permit Re-Application package has been prepared and is submitted in accordance with the provisions of the Clean Water Act (CWA) (33 U.S.C. 1251 – 1387) and the NPDES Permit Program requirements provided in 40 CFR 122.21. It is the intent of the package to provide the EPA and permit writer, New Mexico Environment Department, and others with adequate background information concerning each outfall, the surrounding environmental conditions, and associated future activities at the Laboratory to promote review of the technical data and preparation of the permit. The Permittees would like to invite EPA and New Mexico Environment Department (NMED) representatives to visit the Laboratory during the review process to gain firsthand knowledge and understanding of the information provided, identify potential issues, and answer any questions regarding proposed changes to the permitted outfalls and NPDES facilities presented in this reapplication package.

Due to the complex nature of the NPDES Permit Re-Application and potential need for supplemental information, the applicant requests that all previous applications, modifications, maps, data, and pertinent correspondence submitted in reference to NPDES Permit No. NM0028355 transmitted to the EPA up to the time the new permit is issued, be considered part of this re-application. The applicant will continue to provide copies of all such information to the EPA Permit Writer as new information becomes available.

1.0 NPDES PERMIT RE-APPLICATION

The 2019 NPDES Permit Re-Application requires that detailed information be provided for each point source outfall. The information required includes the location of each outfall; a detailed description of all sources and processes that contribute to each outfall discharge; the volume and frequency of the discharges; and analytical data for the discharges. The Laboratory is categorized as an industrial or commercial facility that is renewing an existing NPDES permit with no new outfalls. This categorization requires that the permit reapplication include an EPA Form 1 and EPA Form 2C. This application is organized into two volumes. Volume I includes an introduction and a set of alphabetically organized (A through L) appendices that provide the maps required by the Form 1 and other supplemental information to support the application. Volume II provides the Form 1 and an application package that consists of the Form 2C and fact sheet for each individual outfall.

1.1 General Form 1

The Form 1 is used to present general information such as the nature of business, name, mailing address, location, and other existing permits that apply to Laboratory operations. This permit application includes a section that is labeled Form 1 in Volume I. This section provides the completed Form 1 with its associated footnotes and applicable certifications. The following Appendices (located in Volume II) provide details regarding the Laboratory's existing environmental permits and the maps requested in Form 1 Section X and XI, respectively:

- Appendix A A list of other environmental permits that are applicable to Laboratory Operations
- Appendix B Topographic maps of each hazardous waste treatment, storage, and/or disposal unit.
- Appendix C Topographic map of the LANL technical areas (TA) and Boundaries

EPA ID No. NM0890010515

- Appendix D A Topographic map of all springs, rivers, and other surface water bodies
- Appendix E A Topographic Map of the area extending to at least one mile beyond the property boundaries that shows the outline of the facility and the location of each outfall. Detailed location maps for each intake and discharge structures are provided with each outfall Form 2C and Fact Sheet.

1.2 Form 2C

The Form 2C is used to provide detailed information regarding the location of the outfall, sources of influent water, production levels, and the analytical data for potential contaminants in the effluent discharged from the outfall. The Form 2C for each outfall is provided in Volume I as a section that corresponds to the respective outfall ID number (e.g., 001, 03A048, 051). In addition to the Form 2C, each outfall section includes a fact sheet that is intended to demonstrate compliance with the Form 2C requirements. The fact sheets provide additional detail and the supporting documentation that is requested by form for each outfall. Supporting documentation includes location maps, process schematics, water balances, photographs, a Discharge Monitoring Report Summary, and chemical safety data sheets, as applicable to each outfall. This permit application provides a Form 2C and fact sheet for the following eleven (11) outfalls:

- 001 Power Plant
- 13S Sanitary Waste Water System (SWWS) Facility
- 03A027 Treated Cooling Water
- 03A048 Treated Cooling Water
- 03A113 Treated Cooling Water
- 03A160 Treated Cooling Water
- 03A181 Treated Cooling Water
- 03A199 Treated Cooling Water
- 04A022 Once Through Cooling Water and Roof Drains
- 051 Radioactive Liquid Waste Treatment Facility (RLWTF) Effluent
- 05A055 High Explosives Wastewater Treatment Facility (HEWTF) Effluent

2.0 BACKGROUND

2.1 Laboratory Organization

The Laboratory is currently operated by Triad National Security, LLC on behalf of the U.S. Department of Energy (DOE) and thus is a co-permittee of the NPDES Permit. As co-permittee, Traid is responsible for Laboratory site compliance with the regulatory requirements of the NPDES permit and all other environmental permits granted to the Laboratory. The Environment, Safety, Health & Quality, and Safeguards & Security (ESHQSS) Directorate, Environmental Protection and Compliance (EPC-DO) provides environmental protection leadership, service, and support to meet the Laboratory's environmental protection obligations and public assurance needs. The Triad senior management has delegated the authority and responsibility to the Associate Laboratory Director of ESHQSS and/or Division Leader of the EPC-DO to act as the certifying official for environmental compliance permit applications. The Associate Laboratory Director of ESHQSS will be a signatory on the 2019 NPDES Permit Re-Application as designated by the letter provided in Appendix F.

2.2 Laboratory Research Activities

The Laboratory is a complex organization comprised of multiple disciplines and programs that include stockpile stewardship and extensive basic research in physics, chemistry, metallurgy, mathematics, computers, earth sciences, and electronics. Its current mission is to solve national security challenges through scientific excellence. The current goals of the Laboratory are to deliver national nuclear security and broader global security mission solutions and to foster excellence in science and engineering disciplines essential for national

security missions by attracting, inspiring, and developing world-class talent to ensure a vital future workplace and by enabling mission delivery through next-generation facilities, infrastructure, and operational excellence.

2.3 NPDES Permit NM0028355

The Laboratory has had an approved NPDES Permit since 1978. Table 1 summarizes the permit activities associated over the last 41 years. Appendix G provides a list of all historical and existing outfalls.

Table 1
Historical Summary of NPDES Permit NM0028355

Applica		NPDES		Outfalls Eliminated and/or Removed			
Date	No. Outfalls	Effective Date	No. Outfalls				
Prior to 1990	141	NA	NA	24 outfalls eliminated prior to the effective date of the first permit.			
1990	117	9/1/2003	34	83 outfalls were eliminated due to the completion of the Waste Stream Characterization and Corrections Project and the Outfall Reduction Project.			
1998	35	2/1/2001	21	 14 outfalls were not permitted because the supply wells associated with them were transferred from U.S. Department of Energy to Los Alamos County before the permit was issued. Request made to EPA to delete 4 outfalls (03A024, 03A047, 03A049, and 05A097) in August of 2004 because they were no longer in use. 			
2004	17	8/1/2007	15	 03A158 was not permitted because the TA-21-209 cooling tower was decommissioned and the outfall eliminated before the permit was issued. 03A028 was not permitted because the TA-15-185 and TA-15-202 Phermex facilities were decommissioned before the permit was issued. 03A021 and 03A185 were tied to the Sanitary Waste Water System (SWWS) Plant in 2010 as part of the Outfall Reduction Project. Outfalls 02A129 (TA-21 Steam Plant) and 03A130 (TA-11 cooling tower) no longer discharge to the environment. 			
2012	11	10/1/2014	11	Permitted 11 outfalls.			
2015	11	5/1/2015	11	 Permit Modification to change the maximum and monthly average temperature limits. Revised the designation of outfall 03A022 to a 04A022. 			

The existing NPDES Industrial and Sanitary Discharge Permit No. NM0028355 became effective on October 1, 2014 with final modifications implemented May 2015 (LA-UR-15-23948). This permit includes 11 outfalls located at seven (7) Technical Areas (TAs) spread out over an approximately 36 square mile area within the Laboratory boundaries (Table 2).

Table 2 Existing Permitted NPDES Outfalls

Outfall Category	Number of Outfalls	Designation
Power Plant (001)	1	001
Sanitary Wastewater System Facility (13S)	1	13S
Radioactive Liquid Waste Treatment Facility (051)	1	051
		03A027
		03A048
Tracted Cooling Water (02A)	6	03A113
Treated Cooling Water (03A)	0	03A160
		03A181
		03A199
Non-Contact Cooling Water, Storm Water, and Roof Drain Water (04A)	1	04A022
High Explosive Wastewater Treatment Facility (05A)	1	05A055

The permit requires weekly, monthly, quarterly, yearly, and term sampling to demonstrate compliance with different outfall specific effluent quality limits. The existing permit requires the Permittees to give notice to the EPA of any planned physical alterations or additions that could significantly change the nature or increase the quantity and/or quality of pollutants discharged from any of its permitted outfalls. The existing permit includes 14 Notices of Changed Condition/Planned Change. Appendix H provides a copy of each Notice of Changed Condition/Planned Change that was submitted to the EPA from March 2012 through February 2019.

2.4 NEPA Considerations

A National Environmental Policy Act (NEPA) categorical exclusion for the Waste Stream Corrections Project was issued by DOE in January 1996 and an *Environmental Assessment (EA) for Effluent Reduction* was completed by the LANL in September 1996. This categorical exclusion and EA support the reduction/elimination of the discharges from all of the LANL outfalls except the following:

- Outfall 001, TA-3 Power Plant
- Outfall 05A055, TA-16 HEWTF
- Outfall 13S, TA-46 SWWS
- Outfall 051, TA-50 Radioactive Liquid Waste Treatment Facility
- Outfall 03A199, Laboratory Data Communications Center (LDCC) Cooling Tower

The TA-16 HEWTF (Outfall 05A055) was analyzed under a separate evaluation which provided a NEPA determination that the project was determined to be covered under an existing DOE-approved categorical exclusion for Safety and Environmental Improvements at LANL. The outfall reduction project for RLWTF (Outfall 051) was included as an option in the Final Site-Wide Environmental Impact Statement (SWEIS) for Continued Operation of Los Alamos National Laboratory (DOE 2008a). In September 2008, the National Nuclear Security Administration (NNSA) issued the first Record of Decision for the 2008 SWEIS (DOE 2008b). The NNSA chose to implement the No Action Alternative with the addition of some element of the Expanded Operations Alternative. Final design of a new RLWTF was a part of the Expanded Operations Alternative that were approved to move forward. Mitigation commitments associated with this project are included in the Mitigation Action Plan for the 2008 SWEIS.

In 2008, a Permit Requirements Identification request was submitted for the proposed actions reducing or eliminating discharges from the LDCC Cooling Tower (Outfall 03A199); TA-46 SWWS (13S); and the TA-3 Power Plant (Outfall 001). In August 2010, an EA for the Expansion of the Sanitary Effluent Recycling Facility and Environmental Restoration of Reach S-2 of Sandia Canyon at LANL and associated Finding of No Significant

Impacts was issued by the NNSA. The NNSA determined that by using adaptive management practices in the implementation of specific resource mitigation commitments, the potential for adverse environmental effects from the proposed actions would be minimal.

2.5 Other Environmental Permits

The Laboratory operations are regulated under various state and federal environmental regulations (e.g., Clean Air Act, CWA, etc.) through operating permits. These documents are designed by the regulatory agencies to allow Laboratory operations to be conducted while assuring that the public, air, land, soils, water, and biota are protected. Appendix A provides a detailed list of the environmental permits at LANL includes issuing dates, revision dates, expiration date, and the administering agency.

3.0 ENVIRONMENTAL SETTING

3.1 Location

The Laboratory and the associated residential and commercial areas of Los Alamos and White Rock are located in Los Alamos County, in north-central New Mexico, approximately 60 miles north-northeast of Albuquerque and 25 miles northwest of Santa Fe as shown on Figure 1. The Laboratory currently encompasses about 36 square miles and is situated on the Pajarito Plateau, a series of finger-like mesas and canyons at the eastern edge of the Jemez Mountains, bordered on the east by White Rock Canyon and the Rio Grande. Mesa tops range in elevation from approximately 7,800 feet (ft) on the flanks of the Jemez Mountains to about 6,200 ft at the edge of White Rock Canyon. Most Laboratory and community developments are confined to the mesa tops.

The land surrounding the Laboratory is largely undeveloped and large tracts of land north, west, and south of the Laboratory site are held by the Santa Fe National Forest, the U.S. Bureau of Land Management, Bandelier National Monument, the U.S. General Services Administration, and Los Alamos County. The Pueblo de San Ildefonso borders the Laboratory to the east. Santa Clara Pueblo is north of the Laboratory but does not share a border. The Laboratory is divided into 49 TAs, which are defined areas that may contain building sites, experimental areas, support facilities, roads, and utility rights-of-way (Appendix C).

3.2 Climate

The Los Alamos area has a semiarid mountain climate where more water is lost through evaporation and transpiration than is received as annual precipitation. Annual temperatures and amounts of precipitation vary across the site because of the 1,000-ft elevation change and the complex topography. Four distinct seasons occur in Los Alamos County. Winters are generally mild, with occasional winter storms. Spring is the windiest season. Summer is the rainy season, with frequent afternoon thunderstorms. Fall is typically dry, cool, and calm. Daily temperatures are highly variable. On average, winter temperatures range from 30°F to 50°F during the daytime and from 15 degrees Fahrenheit (°F) to 25°F during the nighttime. The Sangre de Cristo Mountains to the east of the Rio Grande act as a barrier to wintertime arctic air masses, making the occurrence of local subzero temperatures rare. On average, summer temperatures range from 70°F to 88°F during the daytime and from 50°F to 59°F during the night. From 1981 to 2010, the average annual precipitation (which includes both rain and the water equivalent of frozen precipitation) was 19 inches and the average annual snowfall amount was 59 inches. The rainy season begins in early July and ends in early September. Afternoon thunderstorms form as moist air from the Pacific Ocean and the Gulf of Mexico lifts over the Jemez Mountains. Thunderstorms yield short, heavy downpours and an abundance of lightning. Local lightning density, among the highest in the United States, is estimated at 15 strikes per square mile per year.



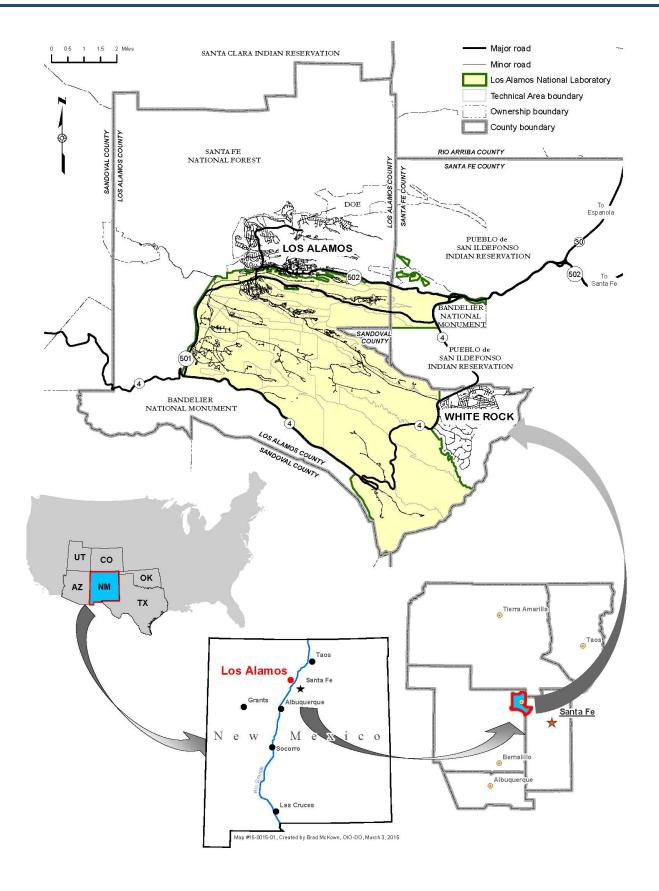


Figure 1 - Location of Los Alamos National Laboratory

3.3 Geology

The Laboratory is located in Northern New Mexico on the Pajarito Plateau (Figure 2). The Pajarito Plateau extends from the Rio Grande in the east to the Sierra de los Valles range of Jemez Mountains in the west. Rocks that compose Bandelier Tuff cap the Pajarito Plateau. The tuff was formed from ash and other volcanic materials that erupted from the Jemez Mountains volcanic center approximately 1.2 to 1.6 million years ago. The tuff is more than 1,000 ft thick in the western part of the plateau and thins to about 260 ft next to the Rio Grande.

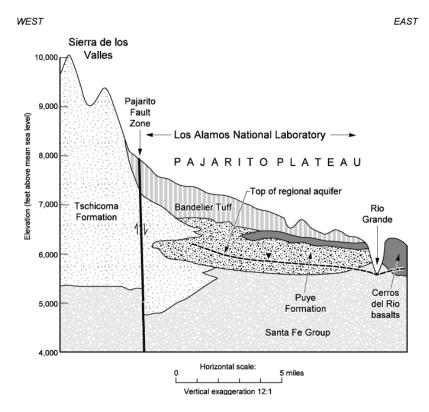


Figure 2 - Generalized Cross-Section of the Los Alamos National Laboratory Area

On the western part of the Pajarito Plateau, the Bandelier Tuff overlaps the Tschicoma Formation, which consists of older volcanic deposits. The Puye Formation, a largely unconsolidated sedimentary conglomerate, underlies the tuff beneath the central and eastern portion of the plateau. The Cerros del Rio basalt flows, which originated mostly from a volcanic center east of the Rio Grande, extend into the Puye Formation beneath the Laboratory. These formations all overlie the sediments of the Santa Fe Group, which cross the Rio Grande valley and are more than 3300 ft thick.

3.4 Hydrology

3.4.1 Surface Water

The Laboratory property contains all or parts of seven primary watersheds that drain directly into the Rio Grande. Listed from north to south, the major canyons for these watersheds are Los Alamos, Sandia, Mortandad, Pajarito, Water, Ancho, and Chaquehui as shown on Figure 3. Each of these watersheds includes tributary canyons of various sizes. Los Alamos, Pajarito, and Water Canyons have their headwaters west of the Laboratory in the eastern Jemez Mountains, mostly within the Santa Fe National Forest. The remainder the primary watersheds have their headwaters on the Pajarito Plateau. Only the Ancho Canyon watershed is entirely located on Laboratory land.



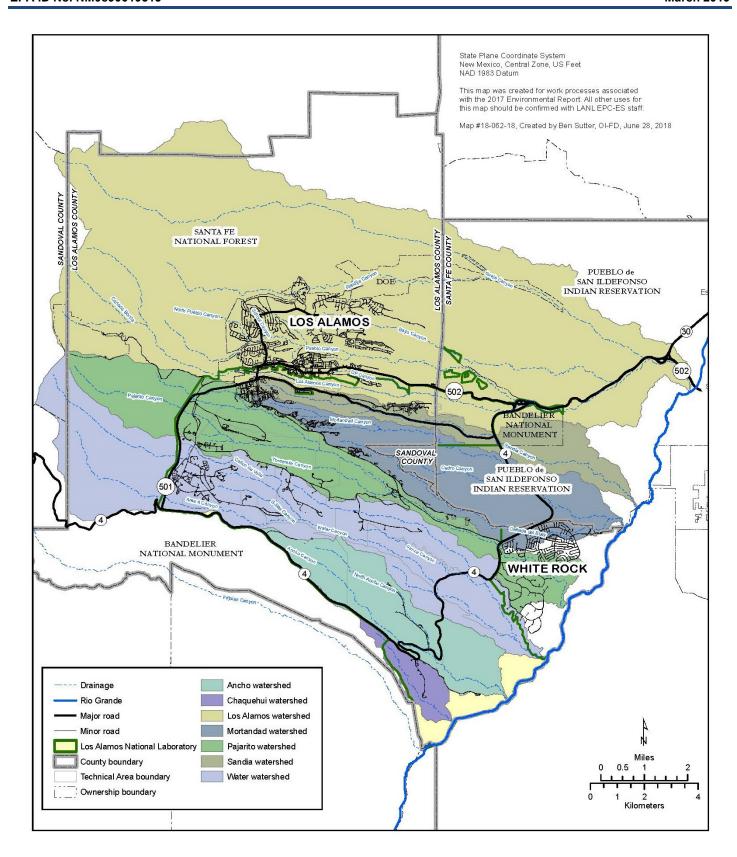


Figure 3 - Primary Watersheds at Los Alamos National Laboratory

Surface water in the Los Alamos region occurs primarily as ephemeral flow, which is associated with individual storms and lasting only a few hours to days, or intermittent flow, which is associated with events like snow melt and lasts only a few days to weeks. Springs on the edge of the Jemez Mountains that flow year-round do supply continuous water into western sections of some canyons on Laboratory property, but the amount of water is not enough to maintain surface flows to the eastern Laboratory boundary.

Except during major runoff events, the cumulative flow of wastewater discharges do not reach the Rio Grande. The intermittent runoff leaving Laboratory property is measured at gage stations located in each watershed. These flow measurements are periodically published in the Watershed Periodic Monitoring Reports or in reports for a given water year. Appendix I provides the most recent Surface Water Data report for Water Year 2014. Appendix E provides a scaled full size map showing the location of the springs/base flow associated with each watershed and the locations of the outfalls associated with this re-application document.

3.4.2 Groundwater

The Laboratory is located on top of a thick zone of mainly unsaturated rock and sediments, with the primary aquifer found 600 - 1,200 ft below the ground surface. Groundwater occurs beneath the Pajarito Plateau in three modes: (1) perched alluvial groundwater in canyon bottoms; (2) zones of intermediate-depth perched groundwater whose location is controlled by availability of recharge and by subsurface changes in permeability; and (3) the regional aquifer beneath the Pajarito Plateau as shown on Figure 4.

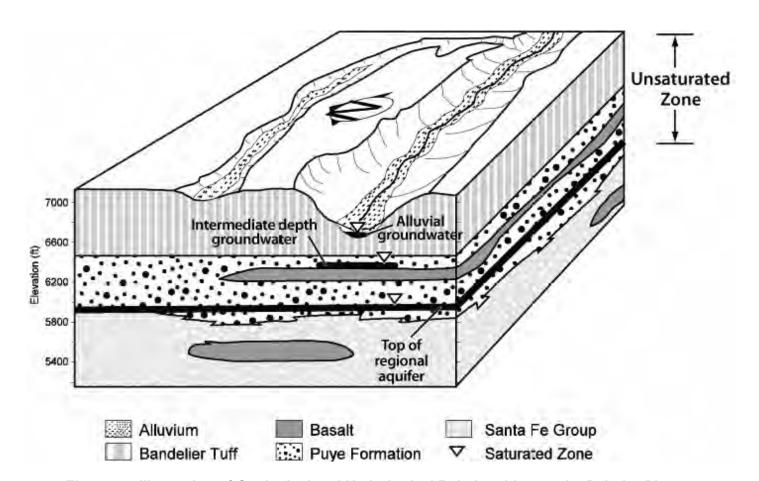


Figure 4 – Illustration of Geological and Hydrological Relationships on the Pajarito Plateau



EPA ID No. NM0890010515

Perched alluvial groundwater is a limited area of saturated rocks and sediments directly below canyon bottoms. Surface water percolates through the alluvium until downward flow is disrupted by less permeable layers of rock, resulting in shallow perched bodies of groundwater. Most of the canyons on the Pajarito Plateau have infrequent surface water flow and, therefore, little or no alluvial groundwater. A few canyons have saturated alluvium in their western ends supported by runoff from the Jemez Mountains. In some locations, surface water is supplemented or maintained by discharges from Laboratory outfalls. As alluvial groundwater moves down a canyon, it either evaporates, is used by plants, or percolates into underlying rock.

Perched-intermediate groundwater occurs within the lower part of the Bandelier Tuff and the underlying Puye Formation and Cerros del Rio basalt underneath some canyons (Figure 4). These intermediate-depth groundwater bodies are formed in part by water moving downward from alluvial groundwater until the water reaches a layer of relatively impermeable rock. Depths of the perched-intermediate groundwater zones vary. For example, the depth to perched-intermediate groundwater is approximately 120 ft beneath Pueblo Canyon, 450 ft beneath Sandia Canyon, and 500 to 750 ft beneath Mortandad Canyon.

The uppermost level of water in the regional aquifer (known as the water table) occurs at a depth of approximately 1,200 ft below ground surface along the western edge of the plateau and 600 ft below ground surface along the eastern edge. Studies indicate that water from the Sierra de los Valles is the main source of recharge for the regional aquifer (LANL 2005). Groundwater in the regional aquifer generally flows east or southeast. The speed of groundwater flow varies but is typically around 30 ft per year. The regional aquifer is separated from alluvial and perched-intermediate groundwater by layers of unsaturated tuff, basalt, and sediment with generally low moisture content (<10 percent). The limited extent of the alluvial and intermediate groundwater bodies, along with unsaturated rock that underlies them, restricts their contribution to recharging the regional aquifer, although locally they are important parts of the complete pathway to the regional aquifer.

The Laboratory uses groundwater for its potable water supply to laboratory facilities, sanitary facilities, and operations support facilities (cooling towers, power plant etc.). This groundwater contains various levels of natural elements that are dissolved as the water passes through the sub-surface geology. Appendix J provides the sampling results for well water as collected by the Los Alamos County Safe Drinking Water Act Sampling Program for 2017.

3.5 Soil Conditions

Most of the Laboratory facilities are located on mesa tops, where the soils are generally well-drained and thin. The parent materials are approximately 95% Bandelier Tuff, volcanic rocks of the Tschicoma and Puye Formations, and the Cerros de Rio Basalts of the Chino Mesa, and the remnants of the El Cajete pumice. The remaining 5% was formed from colluviums, alluvium, andesitic rocks of the Paliza Canyon Formation, Cerro Rubio Quartz Latites, and tuffs associated with the sediments of the Cerro Toledo Rhyolite. The textures of the these soils range from very fine sandy loams and clay loams to gravelly, sandy loams and stony, silty clay loams.

4.0 OUTFALL DESCRIPTIONS AND CLASSIFICATIONS

This 2019 NPDES Permit Application Package includes documentation for 11 industrial and sanitary outfalls as shown in Table 3 and the map provided as Appendix D. These outfalls discharge into 4 of the watersheds in the LANL region, with the amount of discharge varying from year to year. Detailed treatment descriptions and future proposed changes to NPDES permitted facilities and outfalls are found in the EPA Form 2C Applications and Fact Sheets for each outfall.

Table 3
List of Outfalls Included in the Permit Application Package

Outfall ID No.	Location	Receiving Stream ^a	Watershed
001	TA-3	Perennial Reach of Sandia Canyon, Water Quality Segment 20.6.4.126 NMAC	Sandia
13S	TA-46	Canada del Buey, Water Quality Segment 20.6.4.128 NMAC	Canada del Buey b
03A027	TA-3	Perennial Reach of Sandia Canyon. Water Quality Segment 20.6.4.126 NMAC	Sandia
03A048	TA-53	Ephemeral Tributary to Los Alamos Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Los Alamos
03A113	TA-53	Ephemeral Reach of Sandia Canyon, Water Quality Segment 20.6.4.126 NMAC	Sandia
03A160	TA-35	Ten Site Canyon, Tributary to Mortandad Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Mortandad
03A181	TA-55	Effluent Canyon, Ephemeral Reach of Mortandad Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Mortandad
03A199	TA-3	Ephemeral Tributary to Upper Sandia Canyon Water Quality Segment 20.6.4.126 NMAC	Sandia
04A022	TA-3	Ephemeral Reach of Mortandad Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Mortandad
051	TA-50	Effluent Canyon, Ephemeral Reach of Mortandad Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Mortandad
05A055	TA-16	Ephemeral Tributary to Canon De Valle, Water Quality Segment Number 20.6.4.128 NMAC	Water/CdV

- a. See Appendix M for a map showing the New Mexico Water Quality Stream Segments.
- b. Treated effluent from Outfall 13S is pumped to the TA-3 Re-Use tank and discharged to Outfall 001. To date, the TA-46 SWWS Plant has never discharged into Canada del Buey. Canada del Buey is a tributary to Mortandad Canyon.

NMAC = New Mexico Administrative Code

5.0 WASTE ACCEPTANCE, CHARACTERIZATION, AND CERTIFICATION

The Laboratory's waste management requirements are consistent with the applicable DOE orders, and state and federal regulations. All waste generators at the Laboratory are required to properly identify and document the characterization of any solid, hazardous, radioactive, or mixed waste pursuant to P409, *Waste Management* and the waste acceptance criteria (WAC) provided in P409-1, LANL Waste Acceptance Criteria and PA-AP-01039, *Waste Acceptance Criteria for Transuranic Radioactive Liquid Waste*. The WAC for the wastewater treatment facilities that may discharge to an NPDES permitted outfall are based on the NPDES effluent limits, New Mexico Water Quality Standards, Resource Conservation and Recovery Act Universal Treatment Standards, and/or other federal and state requirements. The treatment processes and capacities of these facilities are also considered during the development of the WAC.

The Laboratory utilizes the waste stream profile (WSP) to provide a complete and concise description of each waste stream including the details of the generating process. The WSP process provides generators with guidance to help make the determination of the physical, chemical, and radiological characteristics of the waste with sufficient accuracy to permit proper segregation, treatment, and disposal appropriate facility WAC. A WSP is required for all waste streams to be discharged or transported to the SWWS, RLWTF, and/or the HEWTF. The WSPs are typically prepared by the generator with the assistance of a Waste Management Coordinator who then enters the information into the Waste Compliance and Tracking System (WCATS). The WCATS system automatically routes the WSP for approval by the appropriate organizations/personnel and allows for the generator to attach characterization data, acceptable knowledge data and other information necessary to properly document the waste stream.

6.0 2019 NPDES RE-APPLICATION PROJECT

The data and information used to prepare this 2019 NPDES Permit Re-Application document was prepared by a project team that consisted of representatives from DOE, Environmental Protection and Compliance Division's Compliance Program (ECP-CP) Group, Outfall owners, and Facility Operations Directors/Managers. The project team responsibilities and activities were outlined in a project Implementation Plan (Appendix K). The following sections provide a brief discussion of the work activities and the procedures and processes that were utilized by personnel to ensure that the information provided in this re-application document is complete and accurate.

6.1 Outfall Survey

The outfall survey was to accumulate records, logs, operating procedures, sampling data, compliance inspection reports, topography maps, chemical inventories, WSPs, Safety Data Sheets, Notice of Change/Plans to Change, and previous Laboratory discharge non-compliance records and reports to support completion of the Form 2C for each outfall. The outfall survey included site visits to each of the 11 outfalls and their associated treatment facilities to take photographs, provide confirmation of the sources and processes, verify the outfall location, and collect documentation.

6.2 Outfall Effluent Sampling and Analysis

The Permittees prepared a project specific Sampling and Analysis Plan (SAP) (Appendix L) to ensure that representative samples were collected, preserved, and managed in accordance with the EPA application Form 2C. All samples were collected in accordance with the project specific SAP; EPC-CP-QP-005, Sampling at NPDES Permitted Point-Source Outfalls; and EPC-CP-IWD-005, IWD Part 1, NDPES Outfall Sampling. The samples were shipped by the Sample Management Office (SMO) to a LANL approved analytical laboratory required to use EPA approved methods and follow DOE contract requirements.

All analytical data, upon receipt from the laboratory, was formally validated. After the data was validated it was forwarded to ECP-CP from the SMO and hand entered onto the Form 2C. The accuracy of the hand entered data was independently verified and the review documented, forwarded to the appropriate record series, and a hard copy sent to ECP-CP.

6.3 Document Control/Records Management

Effective document control, record keeping, and data management was conducted in accordance with ADESH-AP-007, *Document Control*; ADESH-AP-006, *Records Management*; and EPC-CP-QAPP-NPDES, Quality Assurance Project Plan for the NPDES Industrial Point Source Permit (IPSP) Self-Monitoring Program.

6.4 Quality Assurance

The quality assurance (QA) for the project was performed in accordance with SD330, Los Alamos National Laboratory Quality Assurance Program, ADESH-QAP-001, Quality Assurance Plan, and EPC-CP-QAPP-NPDES IPSP, Quality Assurance Project Plan for the NPDES Industrial Point Source Permit (IPSP) Self-Monitoring Program. Quality assurance reviews for data accuracy were conducted throughout the project to ensure that data collected from the outfall surveys, site visits, and sampling activities were reasonable and adequately documented. These QA reviews were initially be conducted by project personnel as the data was collected and/or received. Questionable or undocumented data initiated additional investigations with outfall owners/operators. To ensure accuracy, all collected or compiled data was compared and evaluated against existing data obtained from other internal and external entities.

Formal reviews were also conducted by subject matter experts, the outfall owners; and EPC-CP personnel. These included formal comment review and response to ensure that all changes were documented.

EPA ID No. NM0890010515

7.0 REFERENCES

ADESH-AP-006: Records Management.

ADESH-AP-007: Document Control.

ADESH-QAP-001: Quality Assurance Plan.

DOE 2008a: "Final Site-Wide Environmental Impact Statement for the Continued Operation of Los Alamos National Laboratory, Los Alamos, New Mexico," U.S. Department of Energy report DOE/EIS-0380 (May 16, 2008).

DOE 2008b: "Record of Decision: Final Site-Wide Environmental Impact Statement for the Continued Operation of Los Alamos National Laboratory in the State of New Mexico," Federal Register, Volume 73, p. 55833. Washington, D.C. (September 26, 2008).

EPC-CP-IWD-005: IWD Part 1, NDPES Outfall Sampling.

EPC-CP-QAPP-NPDES IPSP: Quality Assurance Project Plan for the NPDES Industrial Point Source Permit (IPSP) Self-Monitoring Program.

EPC-CP-QP-005: Sampling at NPDES Permitted Point-Source Outfalls.

LANL 2005: "Los Alamos National Laboratory's Hydrogeologic Studies of the Pajarito Plateau: A Synthesis of Hydrogeologic Work Plan Activities (1998–2004)," Los Alamos National Laboratory document LA-14263-MS (December 2005).

LA-UR-15-23948: NPDES Permit No. NM0028355.

NMWQCC 2013: "State of New Mexico Standards for Interstate and Intrastate Surface Waters," New Mexico Water Quality Control Commission, 20.6.4 New Mexico Administrative Code.

P409: Los Alamos National Laboratory Waste Management.

P-409-1: Los Alamos National Laboratory Waste Acceptance Criteria.

PA-AP-01039: Waste Acceptance Criteria for Transuranic Radioactive Liquid Waste.

SD330: Los Alamos National Laboratory Quality Assurance Program.