FORM	O	KLAHOM	A APPI	LICATION				DER OPDES	GENERAL
616-G427		DEQ	WASTE	WATED EI			IO. OKG42		EACH ITIES
A. TYPE OF A	LITHO		<u>_</u>		COM MED	ICAL M	IAKIJUAN	A GROWING	FACILITIES
New	Rene		Modification						
- 1 - 1 - 1			Modification						
B. NAME OF	racil	11 Y							
C EACH IDY	CONT	A CITI							
C. FACILITY 1. Name & Title		ACT		2 Phon	e (area code &		3. Email A	Addmong	
1. Name & 110	e			2. Filon	e (area code &	number)	5. Ellian F	Auuress	
D EACH IEV	N/ ATT	NG ADDDE	gg						
D. FACILITY 1. Street or P.0		ING ADDRE	33		2. City or	Town		3. State	4. Zip Code
1. Street of 1.). DUX				2. City 01	TOWII		3. State	4. Zip Code
E. FACILITY	TOCA	TION							
1. Street, Rout			ific Identifier					2. County	
1. Street, Rout	c 110., 0	other spec	nic identifier					2. County	
3. City or Tow	n							4. State	5. Zip Code
3. City of Tow	<u>u</u>							4. State	3. Zip couc
6. Legal Descri	ntion (1/4 1/4 1/4 Sect	ion Townshin	Range)					
o. Legar Descri	ption (74, 74, 74, 5000	ion, rownsing,	Tunge)					
F. OPERATO	RINEC	RMATION							
1. Name of Op		KWATION		2. Phon	e (area code &	number)	3. Email A	Address	
10 1 (dille 01 0 p					e (area esae ce	namet)	- CV 2333431	1441 000	
4. Status of Op	erator	(check appro	priate box: an	d if "Other".	specify)				
	ate	Private		than Federal	_ * _ * _	Other (s	specify):		
5. Street or P.O). Box	1 = = = 1	= =================================		6. City or		·F 7 / ·	7. State	8. Zip Code
					01 0113 01				
G. IS THE FA	CILIT	Y LOCATED	ON INDIAN	LAND?					
Yes	No	If Yes, desc							
H. MAPS									
	ility site	e plan showing	the location of	any buildings	, surface imp	oundment	ts, undergrou	and tank systems,	storage facilities,
containmen	t device	es, land applic	cation sites, dri	veways, park	ing areas, ar	nd other p	ermanent str	uctures. A site p	lan prepared for
		• •						information is in	
								ig to at least one	
								face impoundmental dalso show the	
								ies of water, incl	
		nd wetlands.	~j, -		,			,	
								sources, both su	
								t, and distribution	
				groundwater	wells on or	within ¼ r	nile of the si	ite; and any 100	year flood plains
		n ¼ mile of th		tending to at 1	least one mil	e hevond	nronerty hou	ndaries identifyir	g the location of
			nents and the lo						ig the location of
I. WASTEWA					<u> </u>	<u> </u>		<u> </u>	
1. Describe the	amount	of wastewate	r that will be go	enerated.					
a. Wastewater	Type		b. Da	ily Volume (g	allons)		c. Annua	al Volume (gallo	ns)
Nutrient Water	•								
Reverse Osmos	is (RO)	Reject Wate	er						
2. Provide at lea	st one t	est result for e	ach parameter		ollowing pag	e and attac	the lab rep	ort to this applica	tion. Wastewater
analyses mus	t be per	formed by a s	tate-certified la	boratory.					
	Analyzed wastewater should be representative of the wastewater you will be generating. For example, if you expect to be generating								

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and 20% nutrient water.

800 gallons of RO reject per day and 200 gallons of nutrient water per day, then the analyzed sample should consist of 80% RO reject

I. WASTE	WATER AND LAND CHAR	`	nued)	_		
a. Paramet		b. Test Result		c. Units		
Total Kjelda	ahl Nitrogen					
Ammonia N	itrogen					
Nitrate Nitro	ogen					
Nitrite Nitro	ogen					
Phosphorus	as P ₂ O ₅					
	nductance (Analysis required					
	lication permitting)					
pH						
	APPLICATION intend to land apply wastewater	.9				
•	s (Complete Items J-2 through).		No (Conti	nue to Item K	7	
2. In the tall letter L f	ble below, number each land ap followed by two digits (e.g. L01 e on additional sheets if necessary	plication site and list the , L02, etc.). Use the same	e legal description of	the location.	Site numbers s	
a. Land ID No.	b. Legal Description (1/4, 1/4,	¹ / ₄ , Section, Township, l	Range)			c. Area (acres)
10.						
owner a	vner of the land application site nd lessee (if any) for each land ons, if any.					
a. Land ID No.	b. Name and Address				c. Phone (ar	rea code & number)
	land application site, provide			ameters mus	t be tested for	by a state-certified
	ry or by the Oklahoma State Ur				7 •00	1
a. Land ID No.	b. Nitrogen c. Concentration	Phosphorus d Concentration	I. Sodium Adsorption Ratio	e. Soil S	Specific luctance	f. Soil pH
10.110.	Concentration	Concentration	rusoi ption Ratio	Conc	iuctunce	
5 For each	l land application site, list the lo	egal location total depth	and water level of a	ny public or	private water	wells within ¼ mile
	te. Also list the depth to ground					
a. Land	b. Legal Description of Well				Depth to	f. Direction of
ID No.	Degar Description of West		Depth L	evel (Groundwater	Flow
	land application site, list the ap	plication rate, duration, f	frequency of applicat	ion, and rest	period betwee	n applications.
a. Land ID No.	b. Application Rate	c. Duration (hours)	d. Frequen	ey (days)	e. Rest	Period (days)
10.						

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J.	LAN	D APPLICATION (continued)		
7.	land	ide a brief description of the wastewater application equipmapplication methods and related details including the design corporation or injection.		
8.		ide a brief description of methods used to control surface dr ontrol, capture, and disposal of all surface water runoff.	ainage, stormwater runoff, and eros	sion at each site and the plan for
9.	Prov	ride a description of the method(s) used to transport the was	tewater/sludge to the application sit	tes.
10.	Prov	ride a description of the method(s) that will be used to store	wastewater when it is not being lar	nd applied, or when land
10.		ication is not possible due to rain, freezing temperatures, etc		ar uppnes, or when tune
K.	SUR	FACE IMPOUNDMENTS AND UNDERGROUND TA	NKS	
1.		you be using existing surface impoundments and/or undergnot regulate surface tanks)	ground tanks to store/treat/dispose	of wastewater? (Note that DEQ
		Yes (Complete Items K-3 through K-10)	No (Continue to Item K-	·
2.	•	ou plan to construct one or more new surface impoundment		-
_		Yes (continue to Item L)	No (Continue to Item M)	
3.	tank' etc.);	e table below, number each surface impoundment and unders location. Flow-through surface impoundment numbers slattal retention surface impoundment numbers should consist of the letter S followers.	nould consist of the letter F follow ist of the letter T followed by two	ed by two digits (e.g. F01, F02,
	Note	that OAC 252:616-9-1(3) prohibits the use of underground	tanks with lateral lines from receiv	ring industrial wastewater.
a.]	ID No.	b. Legal Description (1/4, 1/4, 1/4, Section, Township, Ran	ge)	c. Is the impoundment/tank located in a flood plain?
4.		ch a line drawing showing the flow of wastes or wastewate		
		materials, and other sources of waste. Label all processes or og and waste treatment units (if applicable). Indicate disposa		
	recyc	cle, solid waste storage, tanks, impoundments, land applicat timated) on the line drawing that shows average flows betw	ion, landfill, or other pathways. Pro	ovide a water balance (measured
	UI CO	difficulty of the fine drawing that shows average nows belw	con sources, processes, and dispusa	a paulways.

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5. For each impoundment or ank, including but not himseld to process wastes, smarty wastes, and stormwater, and (2) The average, maximum, and minimum flows contributed by each operation or other source of pollution. Continue on additional sheets if necessary. Date Date	K. SUR	FACE IMPO	UNDMENT AND U	NDERGR	OUND TA	NKS (co	ntinu	ed)					
a. ID No. b. Operation(s)/Source(s) C. Daily Flow (specify units) No. b. Operation(s)/Source(s) C. Daily Flow (specify units) No. C. Daily Flow (specify units) No. C. Daily Flow (specify units) No. C. Doration(s)/Source(s) C. Doration(s)/Source(s) No. C. Doration(s)/Source(s)/S													
a. ID No. 8. In the table below, list the type of impoundment liner material (e.g. native soil, compacted clay, flexible membrane, composite, soil/bentonite, concrete, or alternative) to be installed or currently in use. Definitive information and justification is required for alternative liner systems. List the holding supportance of the table below, list the type of impoundment liner material (e.g. native soil, compacted clay, flexible membrane, composite, soil/bentonite, concrete, or alternative) to be installed or currently in use. Definitive information and justification is required for alternative liner systems. List the holding capacity in gallons. 8. In the table below, list the type of impoundment liner material (e.g. native soil, compacted clay, flexible membrane, composite, soil/bentonite, concrete, or alternative) to be installed or currently in use. Definitive information and justification is required for alternative liner systems. List the hickness (in inches, feet, or mils, as appropriate) of section which liner as appropriate, of each liner as proposed or as built. For tanks, list the construction material (e.g. concrete, steel, etc.). 8. In the table below, list the type of impoundment liner material (e.g. native soil, compacted clay, flexible membrane, composite, soil/bentonite, concrete, or alternative) to be installed or currently in use. Definitive information and justification is required for alternative liner systems. List the hickness (in inches, feet, or mils, as appropriate) of or other units as appropriate, of each liner as proposed or as built. For tanks, list the construction material (e.g. concrete, steel, etc.). 8. For each surface impoundment, list the legal location, total depth, and water level of any public or private water wells within ½ mile of the impoundment. Also list the depth to groundwater at each impoundment (if known), and the direction of groundwater flow (if known). Continuo on additional sheets if necessary.													
No. D. Operation(s)/Source(s) D. Operation(s)/Source(s) D. Operation(s)/Source(s) Operation(s)/Source(s)/Sou	maxi	mum, and min	imum flows contribu	ted by each	operation o	or other so						sheets if n	ecessary.
6. For each impoundment, attach plans sufficient to define the following design parameters: (1) Length and width at top and bottom; (2) Total depth; (3) Designed minimum and maximum freeboard; (4) Interior and exterior side-slopes (ratio of horizontal to vertical distances); and (5) Inlet and outlet structures. For each tank, attach plans sufficient to define tank dimensions, inlet structures, and outlet structures. For each tank, attach plans sufficient to define tank dimensions, inlet structures, and outlet structures. For tanks, list only holding capacity in gallons. BW = Bottom Width BL = Bottom Length TL = Top Length TL =	a. ID	h Operatio	n(s)/Source(s)				с.	Daily	y Flow (s	pecify uni	ts)		
(2) Total depth; (3) Designed minimum and maximum freeboard; (4) Interior and exterior side-slopes (ratio of horizontal to vertical distances); and (5) Inlet and outlet structures. For each tank, attach plans sufficient to define tank dimensions, inlet structures, and outlet structures. 7. For each impoundment, list the holding capacity in gallons (assuming a minimum freeboard) and the dimensions in feet. The following abbreviations are used in the table to indicate the various impoundment dimensions. BW = Bottom Width BL = Bottom Length TW = Top Width TL = Top Length TL = Top Length F = Minimum Freeboard MF = Maximum Freeboard MF = Minimum Freeboard MF =	No.	b. Operation	n(s)/Source(s)				(1)	Ave	erage	(2) Ma	aximum	(3) Min	imum
(2) Total depth; (3) Designed minimum and maximum freeboard; (4) Interior and exterior side-slopes (ratio of horizontal to vertical distances); and (5) Inlet and outlet structures. For each tank, attach plans sufficient to define tank dimensions, inlet structures, and outlet structures. 7. For each impoundment, list the holding capacity in gallons (assuming a minimum freeboard) and the dimensions in feet. The following abbreviations are used in the table to indicate the various impoundment dimensions. BW = Bottom Width BL = Bottom Length TW = Top Width TL = Top Length TL = Top Length F = Minimum Freeboard MF = Maximum Freeboard MF = Minimum Freeboard MF =													
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BW = Bottom Width BL = Bottom Length TW = Top Length TL = Top Length BW = Maximum Freeboard MF = Maximum Freebo	follo	wing abbrevia	tions are used in the t	able to indic	cate the va	rious imp	oundn	nent o	dimension	ns.			
BW = Bottom Width BL = Bottom Length TW = Top Length TL = Top Length D = Depth F = Minimum Freeboard MF = Maximum Freeboard MF = Maxim	For t	anks, list only	holding capacity in g	allons.									
BL = Bottom Length TL = Top Length MF = Maximum Freeboard ES = Exterior Side-Slope Ratio (Horizontal: Vertical) A. IID No. No		•					IC I	. 4! -	0: 4 01	D-4:-	(II	1.37(: 1)	
a. ID No. b. Holding Capacity (gallons) b. Holding Capacity (gallons) c. Dimensions (fect) (1) (2) (3) (4) TL (5) D (6) F (7) (8) IS (ratio) (ratio) BW (BL) TW (4) TL (5) D (6) F (7) (7) (8) IS (ratio) (ratio) 8. In the table below, list the type of impoundment liner material (e.g. native soil, compacted clay, flexible membrane, composite, soil/bentonite, concrete, or alternative) to be installed or currently in use. Definitive information and justification is required for alternative liner systems. List the thickness (in inches, feet, or mils, as appropriate) and hydraulic conductivity (permeability) in centimeters/second or other units as appropriate, of each liner as proposed or as built. For tanks, list the construction material (e.g. concrete, steel, etc.). c. Thickness (specify units) d. Hydraulic Conductivity (Permeability) (specify units) Construction Material (tanks) c. Thickness (specify units) d. Hydraulic Conductivity (Permeability) (specify units) for each surface impoundment, list the legal location, total depth, and water level of any public or private water wells within ½ mile of the impoundment. Also list the depth to groundwater at each impoundment (if known), and the direction of groundwater flow (if known). Continue on additional sheets if necessary.						ara							
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No. B. Holding Capacity (gailons) (1) (2) (3) (4) TL (5) D (6) F MF (ratio) (ratio)	a ID				` `					•			
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soil/bentonite, concrete, or alternative) to be installed or currently in use. Definitive information and justification is required for alternative liner systems. List the thickness (in inches, feet, or mils, as appropriate) and hydraulic conductivity (permeability) in centimeters/second or other units as appropriate, of each liner as proposed or as built. For tanks, list the construction material (e.g. concrete, steel, etc.). a. ID No. Construction Material (tanks) b. Liner Type (impoundments) Construction Material (tanks) c. Thickness (specify units) d. Hydraulic Conductivity (Permeability) (specify units) 9. For each surface impoundment, list the legal location, total depth, and water level of any public or private water wells within ¼ mile of the impoundment. Also list the depth to groundwater at each impoundment (if known), and the direction of groundwater flow (if known). Continue on additional sheets if necessary. a. ID b. Legal Description of Wall c. Total d. Water e. Depth to f. Direction of	0 In th	a tabla balarr	list the true of imm	oundment 1	inan matan	iol (o. o. r	notive.	aai1	aammaat	ad aları fl	avibla mar	nhuono oo	mmasita
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a. ID b. Legal Description of Well c. Total d. Water e. Depth to f. Direction of						h impour	dment	t (if k	known), a	nd the dir	ection of gr	oundwate	r flow (if
h Lagal Hacematian at Wall		vn). Continue	on additional sheets i	f necessary.				1					
No. Depth Level Groundwater Flow		b. Legal De	scription of Well										tion of
	No.		•			L	epth		Level	Grou	nawater	Flow	
								I					

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K. SURF	ACE IMPOUNDMENT AND UNDERGRO	OUND TAN	KS (continued)	
10. Briefl	y describe the rationale used to select the prop	osed or curr	ently used liner system or constru	uction material.
T DEGI		TO OR THE		
	GNING NEW SURFACE IMPOUNDMEN			
	do not intend to construct one or more new ation and may proceed to Item M.	surface imp	poundments, then you are not re	equired to complete Item L of this
	rface impoundments and underground tank undments) and OAC 252:616-9 (tanks).	s must mee	et the design and construction	requirements of OAC 252:616-7
	of hiring a Professional Engineer (P.E.) to de	esion an imno	oundment you may use the gene	ric impoundment design located in
	252:616 Appendix D. Do you plan on using the			
		le generie ini	No (Attach drawings of	**
	Yes (Continue to Item L-4)		impoundment(s) and c	
Λ W/;11 +1	nere be at least fifteen feet between the bottom	of the new	*	ontinue to item ivi)
			impoundment and groundwater?	
S	Yes (Attach documentation showing the groun eparation distance and continue to Item L-5)		No (Impoundment mu	st be P.Edesigned)
5. Is the	permeability of compacted in-situ soil at least	5.4 x 10 ⁻⁷ cr	n/s?	
Ţ	Yes (Attach documentation showing the permo	eability	No (Impoundment mu	et he D.E. designed)
8	and continue to Item L-6)		(Impoundment mus	st be F.Edesigned)
	answered yes to Items L-3 through L-5, please the drawing in OAC 252:616 Appendix D			dment, including dimensions. You
·	•	•		
	answered no to Item L-3, L-4, or L-5, then an ahoma.	y new impou	andment must be designed by a P	P.E. licensed to practice in the State
			1 11 (10.5) 50	• 0400
	have any questions concerning impoundment	nt design red	quirements, please call (405) 70	2-8100 and request to speak with
	ne in the industrial permits section.			
	RCES OF WATER SUPPLY AND AMOUN			
Identify a	ll sources of facility water by entering the	appropriate	letter(s) in the boxes below an	nd then providing the appropriate
description	n(s), as indicated in parentheses. List each sou	rce on a sepa	arate line. If you have more than o	one source of a given type, indicate
this by en	tering the letter, followed by two digits (e.g.,	if your water	er comes from three wells, the so	ources would be indicated as G01,
G02, and	G03). For each source, estimate of the average	e daily use. C	Continue on additional sheets if no	eeded.
	G = Groundwater Well		ription of well location)	
	= Surface Water		tream, river, lake, etc., and legal	description of intake)
	= Public Water Supply	`	ntity from which water is obtaine	
	V = Wastewater Treatment Plant		ntity from which water is obtained	
) = Other		supply, and legal description if a	
1. Source		(source of	suppry, and legal description if a	3. Avg. Daily Use (gpd)
1. Source	2. Description			3. Avg. Dany Osc (gpu)
N INVE	NTORY OF CHEMICALS AND RAW MA	TEDIALS		
	emical compounds and raw materials in con		S gallons or more used in facili	ty operations and stored outside a
	e.g., solvents, cleaning compounds, water trea		cais). Describe the storage locati	on and the purpose for which each
chemical i	s used. Continue on additional sheets if neede	ea.		

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O. SANITARY WASTEWATER DISPOSAL			
In the table below, list the estimated volume of sanitary v	·		
1. Volume of Sanitary Wastewater	2. Method of Sanitary Wastewate	r Disposal	
P. OTHER DISPOSAL METHODS			
Briefly describe any other methods of waste disposal use	ed by your facility which have not been previous	sly covered. Exa	mples include
disposal wells, septic tanks (with or without leach fiel			
information on the nature and volume of wastes disposed			
			·
Q. DEQ LANDOWNER NOTIFICATION AFFIDAY	7770		
I () DE() I ANDOWNER NOTHER ATTON AFFIDAV			
	/11		
1. Does applicant own all land subject to the application:		Yes	No
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