

# Design Application Data for Oxidation Ditch Facilities

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Project Name: \_\_\_\_\_ Location: \_\_\_\_\_

Engineer

Owner

Contact Name _____	_____
Company Name _____	_____
Street Address _____	_____
City, State, Zip _____	_____
Telephone _____ Fax _____	Telephone _____ Fax _____
E-mail Address _____	_____

## **Section 1: Wastewater Characteristics**

	<u>Influent (mg/l)</u>	<u>Effluent (mg/l)</u>	<u>Mo. Ave. NPDES Limit (mg/l)</u>
BOD <sub>5</sub> :	_____	_____	_____
TSS:	_____	_____	_____
TKN:	_____	NH <sub>4</sub> -N: _____	NH <sub>4</sub> -N: _____
System Flow Data (mgd):			
Design:	_____	Ave. Daily: _____	Peak 2-hour: _____

## **Section 2: Electrical Data**

Voltage: _____	Phase: _____	Hertz: _____
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Existing Equipment Type: (please circle)

*Fixed Rotors / Orbal Discs / Floating Verticals / Low-Speed Verticals / Diffused Air / Mixers / Other:* \_\_\_\_\_

Existing HP: \_\_\_\_\_ Design HP: \_\_\_\_\_

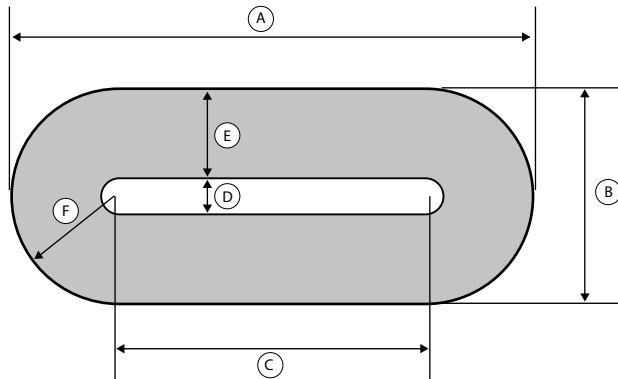
Does the system meet compliance parameters? (Y/N) \_\_\_\_\_



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### Section 3: Basin Geometry

Please provide engineering drawings of the system which shows obstructions, existing equipment, walkways, influent and effluent piping and structures, etc. Otherwise, please provide the information below:



DIMENSIONS	
A	
B	
C	
D	
E	
F	

**LEGEND:**

- |  |   |
|--|---|
| <p>"A" - overall length of ditch<br/>                 "B" - overall width of ditch<br/>                 "C" - length of center wall or island<br/>                 "D" - width of center wall or island<br/>                 "E" - width of ditch channel<br/>                 "F" - radius at ditch end</p> | <p>"G" - width at waterline<br/>                 "H" - width of ditch at bottom<br/>                 "I" - top of wall to bottom of ditch<br/>                 "J" - depth at waterline<br/>                 "K" - slope of wall (1:1, 1:2, etc.)<br/>                 "L" - wall thickness</p> |
|--|---|

E		G		E	
H		I		H	
J		K		J	
L				L	

