



## Water / Wastewater Survey Questionnaire

Please fill out the form and use additional space to answer questions where required

Company Name: \_\_\_\_\_

Location: \_\_\_\_\_

Customer Contact: Name \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Duraflow Representative: \_\_\_\_\_ Date: \_\_\_\_\_

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### Project Background

1. Select one of the following industries that fits this Project:

Automotive \_\_\_\_\_

Metal Finishing \_\_\_\_\_

Printed Circuits \_\_\_\_\_

Chemical \_\_\_\_\_

Mining \_\_\_\_\_

Semiconductor \_\_\_\_\_

Electronic \_\_\_\_\_

Oil Refinery \_\_\_\_\_

Steel/Iron \_\_\_\_\_

Food/Beverage \_\_\_\_\_

Power \_\_\_\_\_

Others \_\_\_\_\_

2. Describe the overall objectives of the Project:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Production Operation: \_\_\_\_\_ Hrs/Day \_\_\_\_\_ Days/Week

### Process Water

4. Describe the source(s) of water supply for plant production processes (e.g. city, or well water, etc.):

\_\_\_\_\_  
\_\_\_\_\_

5. Describe the treatment process for the water supply prior to deliver to production, if applicable.

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6. Describe the problems, if any, associated with the process water treatment system.

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7. Process water flow to production processes: \_\_\_\_\_ GPM or \_\_\_\_\_ GPD

### **Wastewater**

8. Describe the production processes that contribute to the contaminants in the wastewater.

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9. Wastewater flow from production: \_\_\_\_\_ GPM or \_\_\_\_\_ GPD

10. List the major contaminants of concern and the expected concentrations.

Contaminant	PPM	Contaminant	PPM
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

11. List of major organics expected to be present in the wastewater (e.g. O&G, detergent, etc.):

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12. List of major chelating and/or complexing agents present in the wastewater (e.g. EDTA, NH<sub>4</sub>, etc):

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13. Describe the treatment process for the wastewater including sludge management, if applicable.

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14. Describe the problems, if any, associated with the wastewater treatment system.

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15. Describe the receiving body for the treated effluent discharge (e.g. creek, POTW, etc.)

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16. Targeted discharge limits or level of removal for the contaminants of concern:

Contaminant	PPM	Contaminant	PPM
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

### **Recycle Water**

17. Presently, is the wastewater being recycled? \_\_\_\_\_ Yes or \_\_\_\_\_ No

18. Feed flow to the water recycle system: \_\_\_\_\_ GPM or \_\_\_\_\_ GPD

Recycle water flow from the recycle system: \_\_\_\_\_ GPM or \_\_\_\_\_ GPD

19. Describe the water recycle process, if applicable.

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20. Describe the problems, if any, associated with the water recycle system.

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21. If wastewater recycle is considered as one of the objectives, provide analysis of the constituents listed below for the stream to be recycled:

pH	_____	Temperature	_____	Turbidity (NTU)	_____
Alkalinity	_____	Conductivity	_____	TDS	_____
TSS	_____	COD	_____	TOC	_____
Free Cl <sub>2</sub>	_____	Hardness (T)	_____	Boron	_____

#### **Cationic Species**

K	_____
Na	_____
Ca	_____
Mg	_____
Ba	_____
Sr	_____
Fe	_____
Mn	_____
Al	_____
NH <sub>4</sub>	_____

#### **Anionic Species**

CO <sub>2</sub>	_____
CO <sub>3</sub>	_____
HCO <sub>3</sub>	_____
NO <sub>3</sub>	_____
F	_____
SO <sub>4</sub>	_____
PO <sub>4</sub>	_____
S	_____
SiO <sub>2</sub> (C)	_____ (Colloidal)
SiO <sub>2</sub> (S)	_____ (Soluble)