



## Liquid/Solid Separation Questionnaire

The data you supply on this questionnaire will be used to develop a recommendation. More complete information yields a more accurate evaluation. Please contact us if you have any questions or need assistance.

From: \_\_\_\_\_ Voice: \_\_\_\_\_ Fax: \_\_\_\_\_

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

Address: \_\_\_\_\_

\_\_\_\_\_ e-mail: \_\_\_\_\_

Plant type: \_\_\_\_\_

### Objective

Project summary and objectives (what is most important?): \_\_\_\_\_

What is the present method of separation (Or, what methods have been investigated or considered?): \_\_\_\_\_

### Feed Slurry Characteristics

Name of Feed Material: \_\_\_\_\_

Source of Feed (upstream of separation): \_\_\_\_\_

Composition of Liquid (liquid + dissolved solids): \_\_\_\_\_

Composition of Solids (suspended solids): \_\_\_\_\_

Total Solids Concentration by Weight: \_\_\_\_\_ % or \_\_\_\_\_ mg/l Temperature: \_\_\_\_\_

Suspended Solids Concentration by Weight: \_\_\_\_\_ % or \_\_\_\_\_ mg/l

Dissolved Solids Concentration by Weight: \_\_\_\_\_ % or \_\_\_\_\_ mg/l

Density: \_\_\_\_\_ Viscosity: \_\_\_\_\_ pH: \_\_\_\_\_

Other: \_\_\_\_\_

### Process Rate

Continuous

Operating Time: \_\_\_\_\_ hrs/day, \_\_\_\_\_ days/wk

Feed Rate: \_\_\_\_\_ gpm

\_\_\_\_\_ lbs total/hr, \_\_\_\_\_ lbs dry solids/hr

Batch

Operating Schedule: \_\_\_\_\_ batches/day, \_\_\_\_\_ hrs/batch

Feed Amount: \_\_\_\_\_ gal/batch

\_\_\_\_\_ lbs total/batch, \_\_\_\_\_ lbs dry solids/batch

# Liquid/Solid Separation Questionnaire

## Liquids

What are the desired characteristics of the liquid phase (filtrate) after separation? \_\_\_\_\_

\_\_\_\_\_

What happens to the filtrate after separation? \_\_\_\_\_

\_\_\_\_\_

Allowable Filtrate Suspended solids concentration: \_\_\_\_\_ mg/l

Other: \_\_\_\_\_

## Solids

What are the desired characteristics of the solids phase after separation? \_\_\_\_\_

What happens to the cake or 'solids' after separation? \_\_\_\_\_

\_\_\_\_\_

Desired Cake solids: \_\_\_\_\_ % cake density: \_\_\_\_\_ pH: \_\_\_\_\_

Other: \_\_\_\_\_

## Cake Washing

If the intent of the process is to remove soluble material for the cake, complete the following:

What substance is to be removed by cake washing? \_\_\_\_\_

Desired cake purity? \_\_\_\_\_

Are there any limits on the amount of wash liquor used? \_\_\_\_\_

What may be used as wash liquor? \_\_\_\_\_

What happens to the wash liquor after separation? \_\_\_\_\_

Please provide us with any additional background information, process sketches, flow sheets or special instructions.