## **Technical Note 132**

## **LabSense5 Application Questionnaire**

Pi are committed to ensuring that you get the best experience from your LabSense5. To ensure that the LabSense5 is suitable to meet your coagulation control objectives we need the following information to get every application right first time, every time. When you have completed the form please email it to your local sales organisation or direct to the factory.

**Contact Info** 



Coagulant Feed Rate (e.g. ml/min) Coagulant Dosage (ppm or mg/l)

LabSense5 for automatic titration and dosage determination purposes.

-188 max							
Pi LabSettse	Name	Name					
	Sense E-mail	E-mail					
	Mobile No	Mobile No					
	Plant Name	Plant Name					
	Town	Town					
	Country	Country					
	Date	Date					
Application							
1 Daw Water Date (aleas	indicate write a MCD and	3/1					
1. Raw Water Data (please	indicate units e.g. MGD, m	/nr, mi/min, etc.):					
Flow	Typical:	Max:	Min:				
Alkalinity	Typical:	Max:	Min:				
pH (Raw)	Typical:	Max:	Min:				
TOC/UVA	Typical:	Max:	Min:				
Turbidity (NTU)	Typical:	Max:	Min:				
pH (Post Coag)	Typical:	Max:	Min:				
2. Is jar testing routinely pe	erformed? Yes No .						
3. Primary Coagulant							
3	ulant type (aluminum sul e.g. 48.5% aluminum sulp	, , ,	,	,,			
please list the basicity of	the product.						
Chemical Concentration <sup>1</sup>	% Weight/SG	<sup>2</sup> Basicity (	PAC/PAS)	%			
Because WTP's can calcul	ate their dosage in various	ways, we ask that you pro	ovide both the feed rate	in ml/min as well as the			





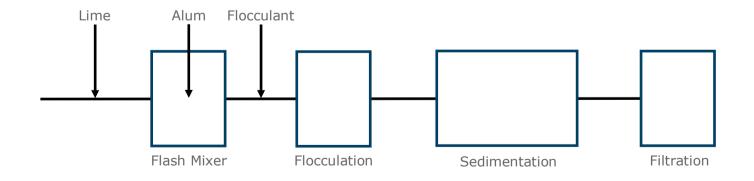
Typical: \_\_\_\_\_ Min: \_\_\_\_

ppm or mg/l dosage. This allows us to work out how dosage is being calculated (e.g. as liquid product, as dry aluminum sulphate, as aluminum oxide, or as aluminum). This is very important to establishing the proper instrument settings on the

4. Secondary Coagulant			-	
A secondary coagulant is defined as charge neutralisation (e.g. a low mole ferric chloride, polyaluminum chloride $Al_2O_3$ ). If coagulant is a pre-hydrolised	ecular weight polymer lile/PAC etc.), and chemic	ke DADMAC). Please list actual ral concentration if known (e.g	coagulant type (al	luminum sulphate
Chemical Concentration <sup>1</sup>	% Weight/SG <sup>2</sup>	Basicity (PAC/PAS)	c	%
Coagulant Feed Rate (e.g. ml/min)	Typical:	Min:	Max:	
Coagulant Dosage (ppm or mg/l)	Typical:	Min:	Max:	
Flocculant is a high molecular weight the actual polymer type and polymer  Anionic/Cationic Concentration <sup>1</sup>	concentration.	ridge coagulated particles into l	arger floc agglome	rations. Please lis
Coagulant Feed Rate (e.g. ml/min)	Typical:	Min:	Max:	
Coagulant Dosage (ppm or mg/l)	Typical:	Min:	Max:	
6. List all other chemicals (chlorine, ca with their typical dosage.	ustic, potassium perma	nganate, filter aids etc.), that	are fed upstream	of filtration along

## **Drawing**

Please provide a simple plant diagram (hand sketch) that describes the process and shows points of chemical addition. Something like this:



<sup>&</sup>lt;sup>2</sup> Provide the weight or specific gravity of the chemical.





<sup>&</sup>lt;sup>1</sup> Provide the chemical concentration value that is used in the dosage calculation (e.g. 48% is commonly used for Alum when calculating as dry aluminum sulphate).