ISWS-ISGS Sediment Materials Laboratory FY2021* Price List

Suspended Sediment Analysis

•	Suspended Sediment Concentration (SSC) Filtration method [ISWS SOP No. Sed 1].	\$ 6.00
•	Sand/Fines Split (S/F) Wet sieve method, percent by weight of sediment ≥0.0625 mm	
	in total sediment, plus SSC [ISWS SOP No. Sed. 4]	\$10.00
•	Total Dissolved Solids (TDS)	
Particle Size Distribution		
•	Organic Removal (ORGRM) Organic removal by bleach (Sodium hypochlorite) [ISWS S	SOP
	No. Sed. 6] or Hydrogen peroxide	
•	Particle Size Distribution-Wet Sieve (PS-WetS) Sand distribution-wet sieve by	·
	full- Φ class ^{1 or 2} \geq 0.0625 mm, plus sand break [ISWS SOP No. Sed. 12]	\$30.00
•	Particle Size by Pipette (PS-PPT) Size distribution for particles finer than sand by	
	pipette method by full-Φ class ³ < 0.0625 mm) [ISWS SOP No. Sed. 2]	\$39.00
	o Fines require addition of Organic Removal (ORGRM)	
	Fines require addition of Sand/fine split (S/F)	
	Note: If sample contains >10% sand, sample PI will be contacted for permission to	. <u>φτο.σο</u> φε τ.σο
	perform sand distribution analysis (PS-WetS). However, this will increase the cost of the	
	sample analysis.	
	0	
•	Particle Size by X-ray Diffraction (PS-XRAY) Size distribution for particles finer than sa	and
	by X-ray Diffraction using Sedigraph Analyzer by user specified breaks < 0.0625 mm	
	[ISWS SOP No. Sed. 10]	. \$35.00
	Fines require addition of Sand/fine split (S/F)	. <u>\$10.00</u> \$45.00
	Note: If sample contains >10% sand, sample PI will be contacted for permission to	
	perform sand distribution analysis (PS-WetS). However, this will <u>increase the cost</u> of the	
	sample analysis.	
•	Particle Size by Laser Diffraction (PS-LASER) Particle size distribution by	
	Laser Diffraction using Malvern-Mastersizer [ISWS SOP No. Sed. 14]	\$21.00
•	Particle Size by Hydrometer (PS-HYDR) Particle size distribution by hydrometer	
	method (2.0 mm, 63 μm, 4 μm, 2 μm) [ISWS SOP No. Sed. 13]	\$28.00
Bulk Sample Analyses		
_	Cond Distribution Day Ciava (DC Days) Cond size distribution by day size as the d	
•	Sand Distribution- Dry Sieve (PS-DryS) Sand size distribution by dry-sieve method	
	using automatic shaker for sizes sand or greater (full- Φ class ¹ \geq 0.062 mm)	#40.00
	[ISWS SOP No. Sed. 3]	\$40.00
•	Density Determination (DD) Dry density, unit weight and moisture content	#05.00
	[ISWS SOP No. Sed. 5]	\$∠5.00

Important notes

- Copies of method standard operating procedures (SOP) are on file in lab and will be provided upon request.
- Contact *Laura Keefer* or *Kim Attig* as soon as possible when developing a <u>new project</u> that requires sediment analyses or anticipate sample analysis needs. This improves lab efficiency and timely analytical results.
- Organic removal is recommended if samples contain organic matter.
- For suspended sediment samples, all delivered samples should be algae-free. Lab procedures may not remove algae successfully.
- The charges are established on basis of the amount of time, procedures, supplies, and equipment needed for each analysis. The charges are used for covering the laboratory personnel wages for time spent on analysis, lab supplies, and lab equipment repair/replacement. Rates will be assessed on a periodic basis.
- For large sample volumes and/or information concerning analyses listed, please contact:

Laura Keefer Tel: 217 333-3468 Illinois State Water Survey Fax: 217 333-2304

Email: lkeefer@illinois.edu

* Prices are effective FY2021 July 1, 2020, applies to U of I grants and contracts, and are subject to change.

¹ Sand mass >25 g - 8" Sieve Shaker: break points in millimeters (**mm**) at 0.063, 0.090, 0.125, 0.180, 0.250, 0.355, 0.500, 0.710, 1.00, 2.00, 4.00, 8.00, 11.2, 16, 22.4, 31.5, 45, and 63.

² Sand mass >5 g and <25 g - 3" Sonic Auto Sieve: break points in millimeters (**mm**) at 0.063, 0.090, 0.125, 0.180, 0.250, 0.500, 0.710, 1.00, 2.00.

 $^{^3}$ Break points in micrometers ($\mu m)$ at 62, 31, 16, 8, 4 and 2.