ISWS-ISGS Sediment Materials Laboratory FY2023* Price List

Suspended Sediment Analysis

	 Suspended Sediment Concentration (SSC) Filtration method [ISWS SOP No. Sed 1] Sand/Fines Split (S/F) Wet sieve method, percent by weight of sediment ≥0.0625 mm 	\$ 6.00
	• Sand/Fines Spin (S/F) wet sieve method, percent by weight of sediment ≥0.0025 mm in total sediment, <u>plus SSC</u> [ISWS SOP No. Sed. 4]	\$10.00
	 Total Dissolved Solids (TDS) 	
Part	ticle Size Distribution	
<u>. ar</u>	Organic Removal (ORGRM) Organic removal by bleach (Sodium hypochlorite) [ISWS SOP	
	No. Sed. 6] or Hydrogen peroxide	\$15.00
	Particle Size Distribution-Wet Sieve (PS-WetS) Sand distribution-wet sieve by	
	full- Φ class ^{1 or 2} \ge 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]	
	• Fines require addition of Organic Removal (ORGRM)	\$ 04.00
	 Fines require addition of Sand/fine split (S/F) Nate: If comple contains >10% and comple PL will be contacted for permission to 	\$64.00
	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.	
	0	
	 Particle Size by X-ray Diffraction (PS-XRAY) Size distribution for particles finer than sand by X-ray Diffraction using Sedigraph Analyzer by user specified breaks < 0.0625 mm 	
	[ISWS SOP No. Sed. 10]	* 4 = 0 0
	• Fines require addition of Sand/fine split (S/F)	\$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
<u>Bull</u>	k Sample Analyses	
	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 \ge 0.062 mm)	
	[ISWS SOP No. Sed. 3]	\$40.00
	 Density Determination (DD) Dry density, unit weight and moisture content 	
	[ISWS SOP No. Sed. 5]	\$25.00
Imn	ortant notae	
	ortant notes Copies of method standard operating procedures (SOP) are on file in lab and will be provided upon re-	quest
	Contact Laura Keefer or Kim Attig as soon as possible when developing a <u>new project</u> that requires se	
•	analyses or anticipate sample analysis needs. This improves lab efficiency and timely analytical result	
•	Organic removal is recommended if samples contain organic matter.	13.
•	For suspended sediment samples, all delivered samples should be algae-free. Lab procedures may n	ot remove
-	algae successfully.	orientove
•	The charges are established on basis of the amount of time, procedures, supplies, and equipment nee	ded for
-	each analysis. The charges are used for covering the laboratory personnel wages for time spent on a 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:	
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	Laura KeeferTel: 217 333-3468Kim AttigTel: 217-333-18Illinois State Water SurveyEmail: lkeefer@illinois.edu Email: attig@illinois.edu	

* Prices are effective FY2021 July 1, 2023, 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.