

Materials List for:

Measuring Carbon-based Contaminant Mineralization Using Combined CO₂ Flux and Radiocarbon Analyses

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Materials

Name	Company	Catalog Number	Comments
Air pump; Power Bubbles 12 V	Marine Metal	B-15	
Marine Sealant	3M	5200	for sealing pumps
Silicone Sealant	Dap	08641	for sealing pumps
Tubing for gas recirculation	Mazzer	EFNPA2	
Stopcocks (for gas lines)	Cole-Parmer	30600-09	for assembling gas lines
Male Luer lock fittings	Cole-Parmer	WU-45503-00	for assembling gas lines
Female Luer lock fittings	Cole-Parmer	EW-45500-00	for assembling gas lines
4" Lockable J-Plug well cap	Dean Bennett Supply	NSN	2" if smaller wells
HOBO 4-Channel Pulse Data Logger	Onset	UX120-017	Older model no longer available. Use to monitor pump operation
Serum bottles 100 ml (cs/144)	Fisher Scientific	33111-U	For CO ₂ traps
Septa (pk/100)	Fisher Scientific	27201	For CO ₂ traps
Coulometry			
Anode solution	UIC, Inc	CM300-001	
Cathode solution	UIC, Inc	CM300-002	
For IC analysis			
Dionex Filter Caps 5 ml 250/pk	Fisher Scientific	NC9253179	Caps for IC
Dionex 5 ml vials, 250/pk	Fisher Scientific	NC9253178	Vials for IC
If using solar power			
Renogy Solar Panel kit(s)	Renogy	KT2RNG-100D-1	Bundle provides 200 W
VMAX Solar Battery	VMAX	VMAX800S	For energy storage