

Dewatering Tube Trial Checklist

I. Polymer and Water Requirements

- Obtain drum or tote of polymer from Spinpro.
- Obtain polymer make up unit from Spinpro.
- Provide 110 VAC to power ‘neat’ polymer pump.
- Provide flooded suction to polymer pump and sufficient flex tubing from pump discharge to polymer injection point.
- Provide min. 30 psig water pressure to polymer make down unit
- Raw water for make down of polymer must be of potable water quality with total alkalinity less than 250 ppm as CaCO₂ (if polymer solution is to be stored).
- Provide sufficient raw water flow to accommodate polymer make down and post dilution requirement.
- Post dilution water if higher than .05% solution is used.

II. Sludge Pump and Flow Requirements

- Dredge or sludge pump can be either hydraulic, electric, positive displacement or diaphragm type pump.
- Flow should not exceed 400 GPM for larger sized test dewatering tubes and 100 GPM for smaller sized dewatering tubes.
- Provide a sludge recirculation line back to digester or lagoon to ensure sludge is properly conditioned before pumping into Dewatering tube.
- Provide 3” or 4” cam lock fitting to pump discharge.
- Provide flexible hosing to carry sludge to Dewatering Tube.

III. Static Mixer

- Build a serpentine or coiled hose mixer for sludge –polymer conditioning. These mixers provide the mixing of polymer into the sludge.

IV. Dewatering Tube Installation Requirements

- Place Dewatering Tube on ground with a maximum slope of 1% from end to end and from side to side.
- Place liner and drainage netting on graded area.
- Build containment or berm
- Use anchor stacks if required to hold dewatering tube in place while filling.



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	Polymer ordered and on site
	Polymer dose set by bench test
	Polymer make up unit ordered and onsite
	Polymer has flooded suction to pump
	110 VAC provided for Polymer Pump
	Water Pressure greater than 30 psig
	Sufficient water flow for both M/U and post dilution
	Post dilution line with meter
	Raw water quality – good, clean?
	Sufficient polymer flex tubing on site
	Sufficient cam lock hose from pump to Dewatering Tube
	Sludge recirculation line after pump in place?
	Serpentine mixer on site and pressure tested
	Sample port installed downstream of mixer
	Has the ground been prepared/ graded for the Dewatering Tube?
	Is a drainage net being used or onsite?
	Is the graded slope less than 1%?
	Is a liner being used or onsite?
	Are Dewatering Tubes anchor stakes required?
	Is the area around Dewatering Tube contained or diked to contain filtrate?
	Is the Dewatering Tube filtrate being returned to plant or discharged?
	Is high quality filtrate required?
	Are multiple Dewatering Tubes being filled at a time?
	Is a feed manifold in place for switching to other Dewatering Tubes?



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