Johor Straits Sampling Checklist

Date: _____

Item or Sample Type	Preparations in the Lab – qty is per trip	What to do in the Field	Back in the Lab
Autosampler	- 10x sterivex (4 per site, +2 extra) - 4x 10ml syringes - RNA Later - Blue tack - Toilet roll	- Run autosampler for 10 minutes with local water - Collect each sterivex sample for 15 minutes, then remove water by pushing air using syringe - Fill each sterivex sample with 2ml RNA Later using pipette - Put sterivex samples in Dryshipper.	Store sterivex in -80C Rinse Autosampler with tap water for 10 minutes [Once a week, rinse the autosampler with 5L 10% bleach, then 10 mins with tap water.]
Nutrients	- 5x 15ml tubes, acid washed (1x acid, 3x RO water), dry (2 per site, +1 extra)	- Use mid-stream sterivex filtrate. - Rinse each tube 3 times with sample before collection - Place in Dryshipper	Store tubes in -20C.
FCM Samples	- 10 cryovials (4 per site, +2 extra) - Pre-label with sample ID, location, date, sample type - Pre-aliquot 20ul of 25% glutaraldehyde into each vial - Store in 4C fridge until the morning of sampling - Bring for sampling inside cooler + ice pack	- Add 980ul of water sample inside each vial, accordingly to each sample type - Fix samples in the cooler for 15-30 minutes - Flash freeze in Dryshipper - For each sample, do 2 for 150um pre-filtrate & 2 for 0.22um filtrate (total 4 per site).	Store cryovials in -80C.
Chlorophyll GF/F	- 4x GF/F (2 per site) - 8x 50ml syringe (4 per site) - filter holder - Forceps - Aluminium foil For each site, do 1 sample for completely unfiltered water, 1 for 150um pre-filtrate	- Place GF/F in filter holder using forceps - Gently, filter 50ml of sample through the GFF, then rinse filter with 50ml of DI water - Push air out of syringe to dry filter - Fold in 2 (sample side in), place in aluminium foil - Put in Dryshipper - Rinse filter holder with DI water.	Store GFF at -20C.
Fluorescence	- Aquaflash + glass cuvette - Kimwipes - 6x 50ml tubes (3 per site, 1 each for completely unfiltered, 150um pre-filtered, 0.22um filtered)	- Aliquot 2ml of sample into glass cuvette - Measure & record. - Do for completely unfiltered, 150um pre-filtered & 0.22um filtered sample	
Secchi disk	- Bring Secchi disk	- Lower disk until it just disappears. Record depth. - Pull disk until it just appears. Record depth. - Repeat 5 times	- Average the 10 numbers, that is the Secchi Depth

Cooler & Dryshipper & other consumables	- Put ice packs in -80
	- Prepare cooler
	- Prepare Dryshipper
	- Prepare sampling materials
	- At least 1l of DI Water
	- 1000ul pipette & tips
	- Gloves, 70% EtOH, tissue
	- Salinity & temperature probe
	- Sampling notebook, pen, sharpies
		- Record date, sampling location, sampling time, weather, sampling personnel
		- Record measurements:
		  o Fluorescence & yield
		  o Secchi depth
		  o Salinity & Temperature
		  o Number of samples of each kind taken
		- Record any other observations
			- Thaw/re-freeze ice packs
			- Clean cooler
			- Remove all samples to proper storage places
			- Dispose remaining DI Water
			- Fully charge the Dryshipper when not cold

Completely unfiltered = from bypass filter, turn red knob
150um pre-filtered = from the outhose, the one that spews water very far
0.22um filtered = from sterivex